# L-force

## *Geared servo motors*



**Dynamisch, leistungsstark, kompakt**



Lenze

**Wofür wir stehen.**
Sie wollen Ihre Maschinen- und Anlagenkonzepte effektiv und einfach realisieren oder bestehende Konzepte optimieren und damit ihre Kosten senken? Dann haben Sie mit Lenze den richtigen Partner. Unsere Kernkompetenz ist die Antriebs- und Automatisierungstechnik - und das seit mehr 60 als Jahren.



Antriebs- und Automatisierungstechnik von Lenze bewegt – beispielsweise in der Fördertechnik, Robotik und Handhabungstechnik sowie in der Verpackungstechnik für die Branchen Intralogistik, Automotive sowie Nahrungs- und Genussmittel.

# Lenze stellt sich vor

Sie erhalten von uns Automatisierungslösungen, inklusive der Steuerung, Visualisierung und Antriebstechnik, aus einer Hand. Die Leistungsfähigkeit Ihrer Maschinen steigt mit unseren Antriebssystemen. Von der Projektierung bis zur Inbetriebnahme steht Ihnen unser Know-how zur Verfügung. Unser weltweites Vertriebs- und Servicenetz bietet Ihnen jederzeit qualifizierte Hilfe und Beratung.

Senken Sie Ihre Prozesskosten und steigern Sie Ihre Wettbewerbsfähigkeit. Wir analysieren Ihre antriebstechnischen Aufhaben genau und unterstützen Sie mit passgenauen Lösungen.Unser Beratungsansatz ist ganzheitlich. Die Skalierbarkeit unserer Produkte und der Umfang des Gesamtportfolios machen es möglich. Aus Ihren Maschinen und Anlagen holen wir das Beste heraus.







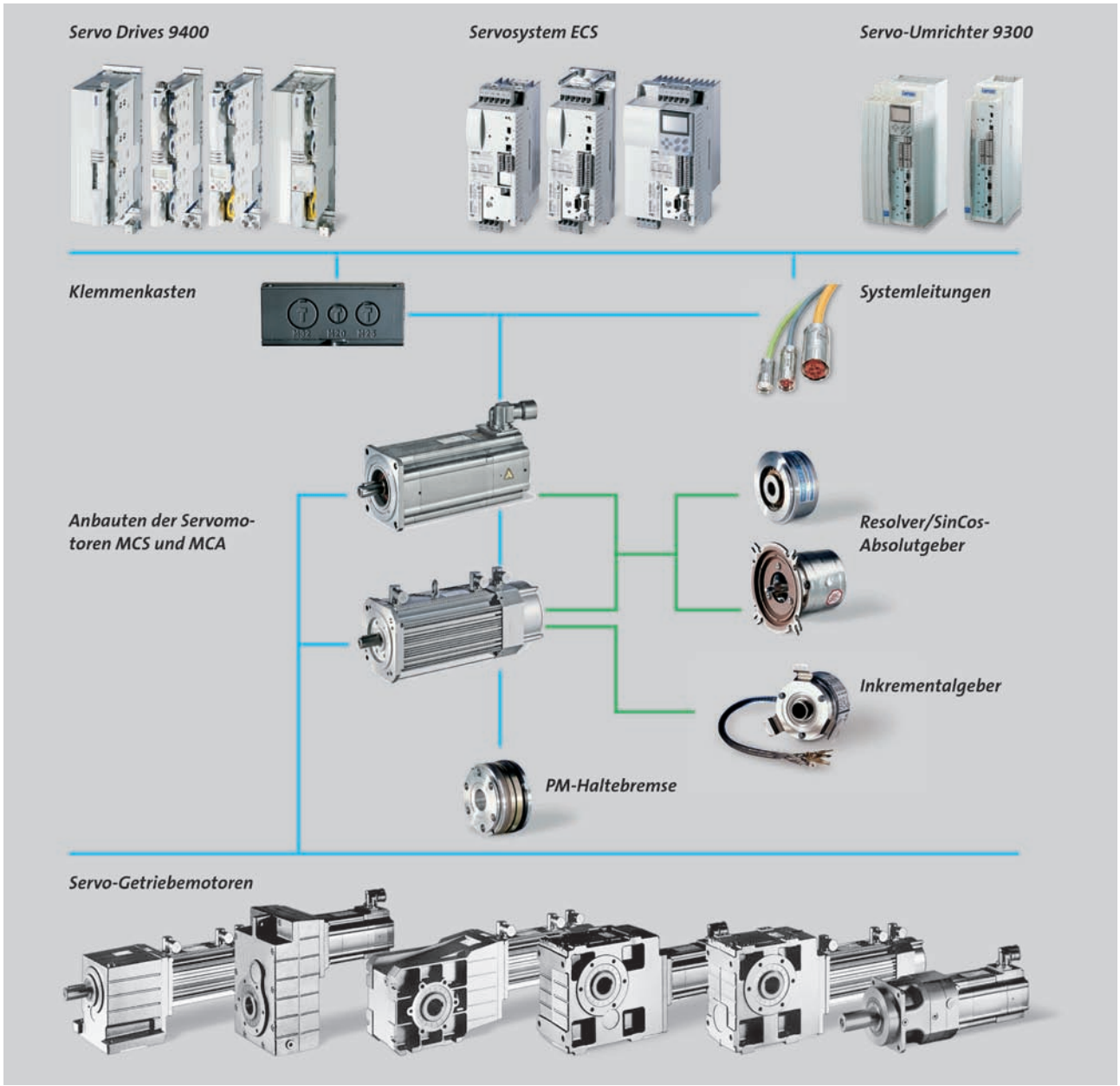






**Weltweit für Sie da – unsere engagierten Mitarbeiter unterstützen Sie sorgfältig und professionell.**

# Systemübersicht | Geared servo motors




**Weitere Kataloge**

In diesem Katalog sind Servo-Getriebemotoren der Baureihe G-motion servo MC beschrieben. Die weiteren Komponenten der obigen Systemübersicht finden Sie in den folgenden Katalogen:

| Komponenten | Katalog |
|---|---|
| Servo Drives 9400 | ▶ Servo Drives 9400 |
| Servosystem ECS | ▶ Servosystem ECS |
| Servoumrichter 9300 | ▶ Servoumrichter 9300 |
| Servomotoren MCS/MCA und Anbauten | ▶ Servomotoren |

# Übersicht | Geared servo motors


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**Kegelstirnradgetriebe GKS** 539

**Stirnrad-Schneckengetriebe GSS** 705

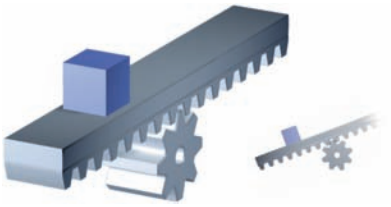
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## Allgemeines


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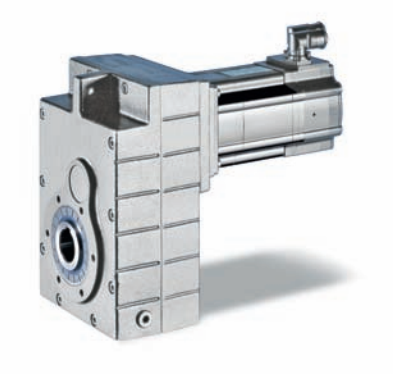
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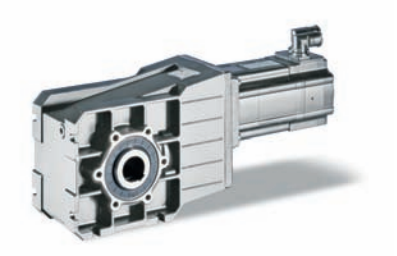
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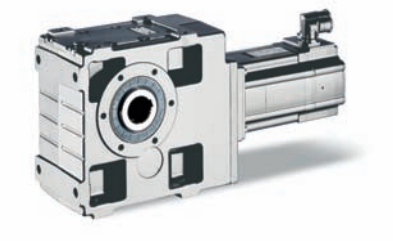
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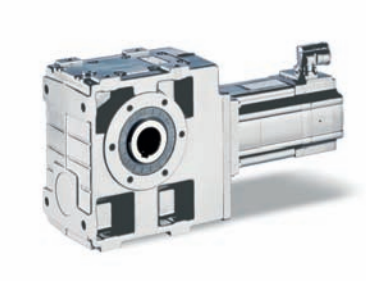
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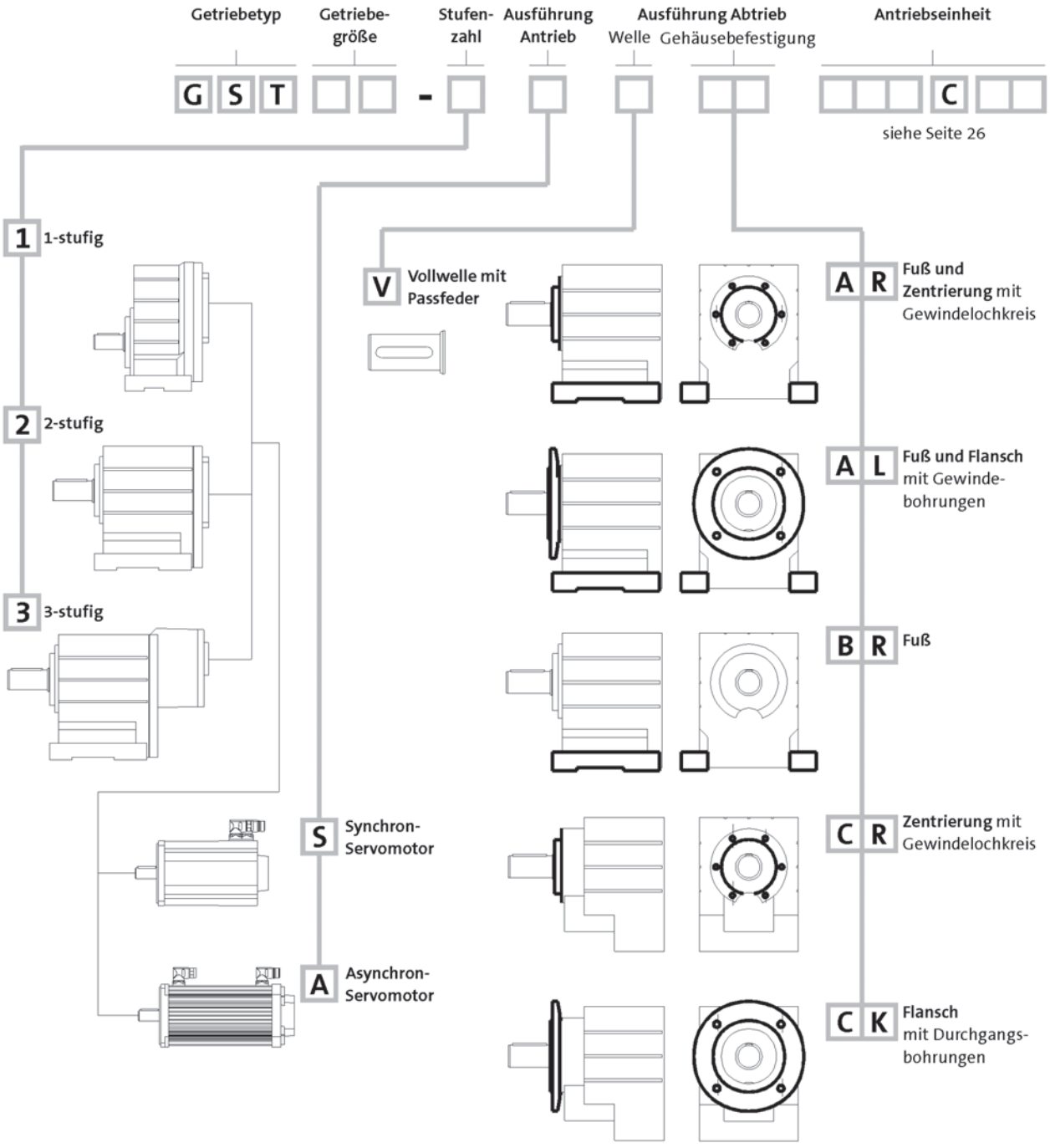
# Inhalt | Geared servo motors



## Servomotoren

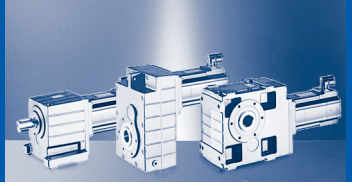

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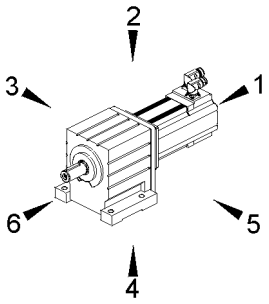
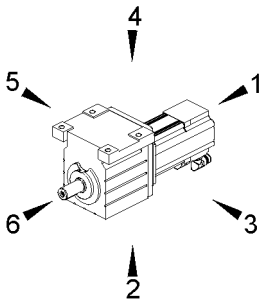
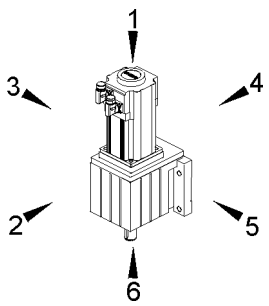
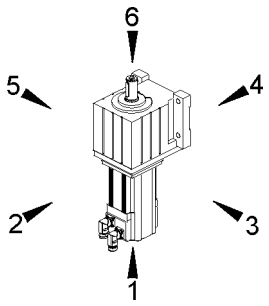
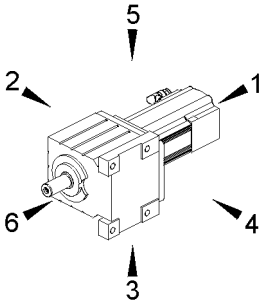
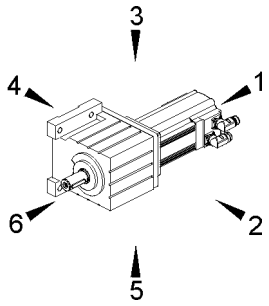
MCA & [mm]
- Weitere Abmessungen Motoren ____ 803
- Asynchron-Servomotoren MCA mit Drehzahl- / Winkelgeber ____ 803
- Motoranschluss Steckverbinder ____ 804
- Motoranschluss Klemmenkasten ____ 808




| | Ausführung Abtrieb | | |
|---|---|---|---|
| | V | K | L |
| | d x l [mm] | Øa2 [mm] | Øa2 [mm] |
| GST03-2 | 14x28 | 120/140/160 | |
| | 20x40 | 120/140/160 | |
| GST04-1 | 16x32 | 120/140/160 | |
| GST04-2 | 20x40 | 120/140/160 | 120/140 |
| GST05-1 | 20x40 | 120/140/160/200 | |
| GST05-2/3 | 25x50 | 120/140/160/200 | 120/140/160 |
| GST06-1 | 25x50 | 160/200 | |

| | Ausführung Abtrieb | | |
|---|---|---|---|
| | V | K | L |
| | d x l [mm] | Øa2 [mm] | Øa2 [mm] |
| GST06-2/3 | 30x60 | 160/200 | 160/200 |
| GST07-1 | 30x60 | 200/250 | |
| GST07-2/3 | 40x80 | 200/250 | 200/250 |
| GST09-1 | 40x80 | 250/300 | |
| GST09-2/3 | 50x100 | 250/300 | 250/300 |
| GST11-2/3 | 60x120 | 300/350 | 300/350 |
| GST14-2/3 | 80x160 | 350/400 | 350/400 |

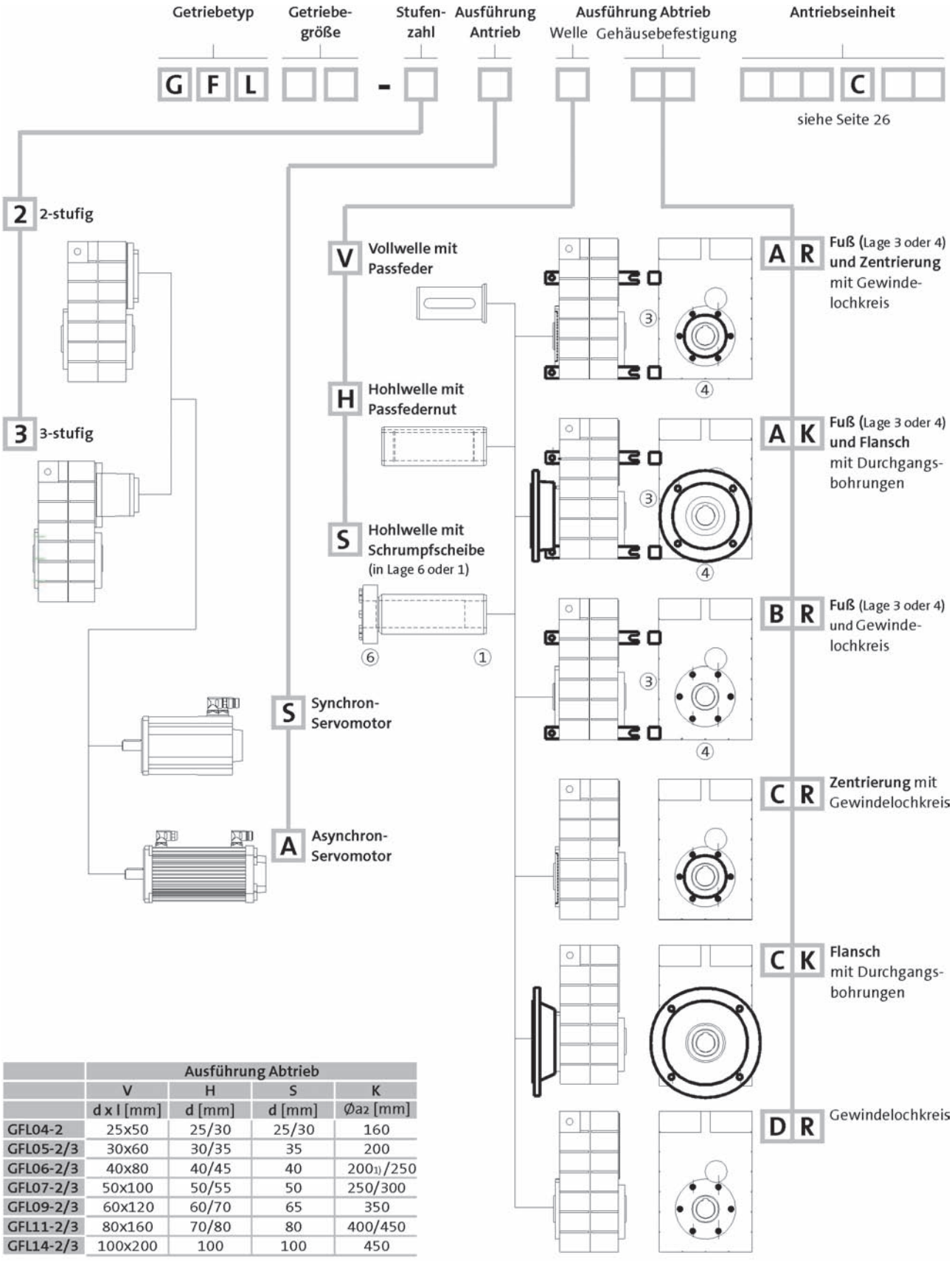


| Einbaulage (A...F) und Position der Systembausteine (1...6) | | |
|---|---|---|
| A | B | C |
|  |  |  |
| D | E | F |
|  |  |  |

Steckverbinder / Klemmenkasten: 2, 3, 4, 5

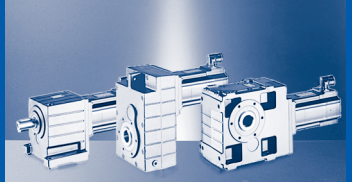
| **Basisausführungen** | |
|---|---|
| Farbe | Grundierung grau<br>Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP HC 320 |
| Entlüftung | Ölkontrollschrauben für GST05...14<br>Entlüftungselemente für GST06...14 |
| **Optionen** | |
| Farbe | Sonderlackierung nach RAL |
| Schmierstoff | CLP HC 220 USDA H1 |
| Entlüftung | Entlüftungselemente für GST05<br>Ausgleichsbehälter für GST09...14 in Einbaulage C |
| Lagerung | GST04 ... 09-2: Abtriebswelle verstärkt |
| Wellendichtringe | Abtriebswelle: Viton |

| **Checkliste Bestellangaben** | |
|---|---|
| Produktschlüssel | GST... |
| Übersetzung | i = ... |
| Wellendurchmesser | d = ... [mm] |
| Flanschdurchmesser | $a_2$ = ... [mm] |
| Einbaulage | A, B, C, D, E, F |
| Lage der Systembausteine | Steckverbinder / Klemmenkasten: 2, 3, 4, 5 |
| Farbe | |
| Optionen | |

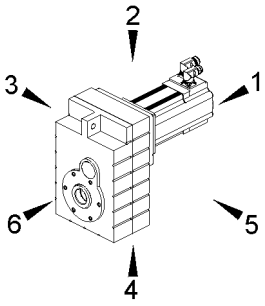
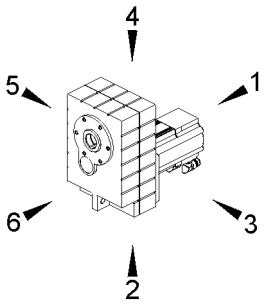
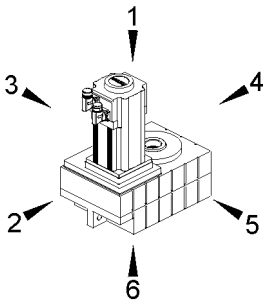
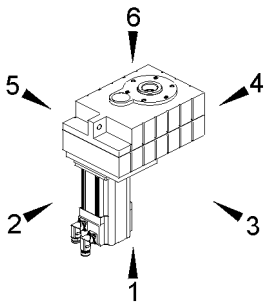
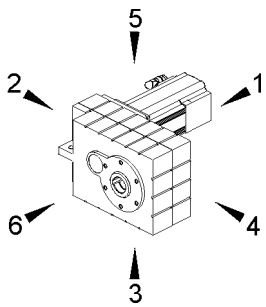
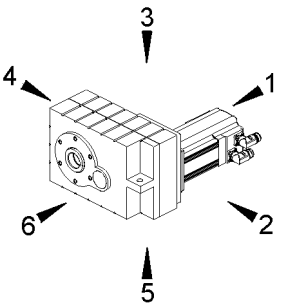



| | Ausführung Abtrieb | | | |
|---|---|---|---|---|
| | V | H | S | K |
| | d x l [mm] | d [mm] | d [mm] | Øa2 [mm] |
| GFL04-2 | 25x50 | 25/30 | 25/30 | 160 |
| GFL05-2/3 | 30x60 | 30/35 | 35 | 200 |
| GFL06-2/3 | 40x80 | 40/45 | 40 | 200[1]/250 |
| GFL07-2/3 | 50x100 | 50/55 | 50 | 250/300 |
| GFL09-2/3 | 60x120 | 60/70 | 65 | 350 |
| GFL11-2/3 | 80x160 | 70/80 | 80 | 400/450 |
| GFL14-2/3 | 100x200 | 100 | 100 | 450 |

[1] Nur bei Ausführung Abtrieb H und S



**Einbaulage (A...F) und Position der Systembausteine (1...6)**

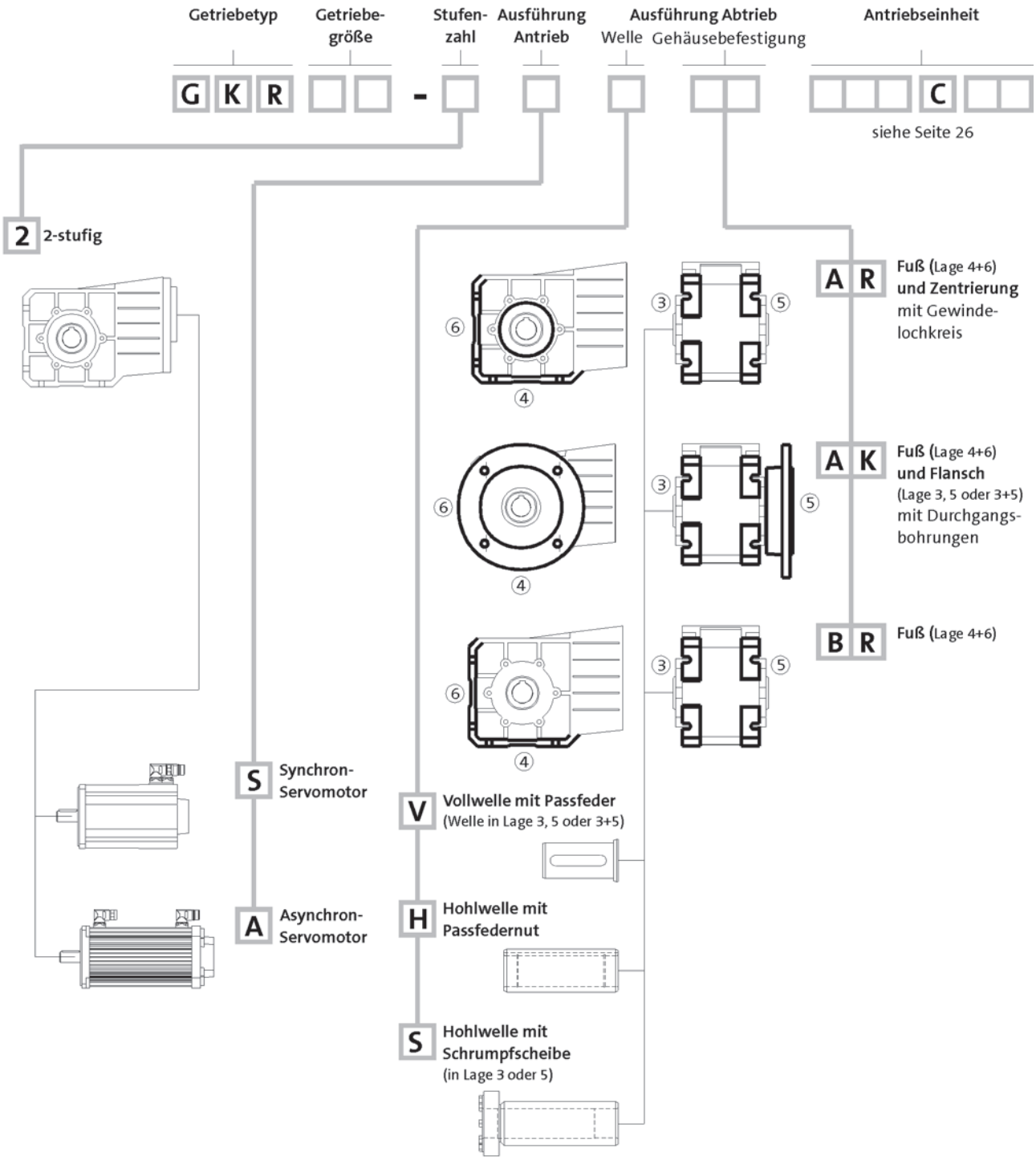
| A | B | C |
|---|---|---|
|  |  |  |
| **D** | **E** | **F** |
|  |  |  |

Vollwelle: 6
Hohlwelle: 0
Hohlwelle mit Schrumpfscheibe: 1, 6

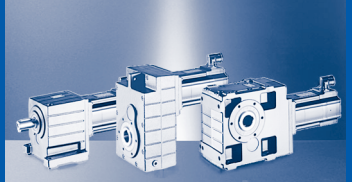
ohne Fuß: 0
Fuß: 3, 4
Steckverbinder / Klemmenkasten: 2, 3, 4, 5

| **Basisausführungen** | |
|---|---|
| Farbe | Grundierung grau<br>Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP HC 320 |
| Entlüftung | Ölkontrollschrauben für GFL05...14<br>Entlüftungselemente für GFL06...14 |
| **Optionen** | |
| Farbe | Sonderlackierung nach RAL |
| Schmierstoff | CLP HC 220 USDA H1 |
| Entlüftung | Entlüftungselemente für GFL05<br>Ausgleichsbehälter für GFL09...14 in Einbaulage C |
| Wellendichtringe | Abtriebswelle: Viton |
| Zubehör | Gummipuffer für Drehmomentabstützung<br>Abdeckhaube Schrumpfscheibe<br>Montagesatz Hohlwellensicherung |

| **Checkliste Bestellangaben** | |
|---|---|
| Produktschlüssel | GFL... |
| Übersetzung | i = ... |
| Wellendurchmesser | d = ... [mm] |
| Flanschdurchmesser | $a_2$ = ... [mm] |
| Einbaulage | A, B, C, D, E, F |
| Lage der Systembausteine | Welle: 0, 1, 6<br>Fuß: 0, 3, 4<br>Steckverbinder / Klemmenkasten: 2, 3, 4, 5 |
| Farbe | |
| Optionen | |

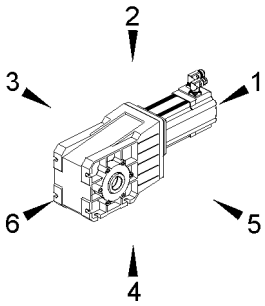



| | Ausführung Abtrieb | | | |
|---|---|---|---|---|
| | V | H | S | K |
| | d x l [mm] | d [mm] | d [mm] | Øa2 [mm] |
| GKR03-2 | 20x40 | 18/20 | 20 | 110/120 |
| GKR04-2 | 20x40 | 20/25 | 20 | 120/160 |
| GKR05-2 | 30x60 | 30/35 | 30/35 | 160/200 |
| GKR06-2 | 35x70 | 40/45 | 40 | 200/250 |

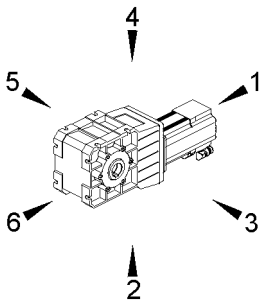


**Einbaulage (A...F) und Position der Systembausteine (1...6)**

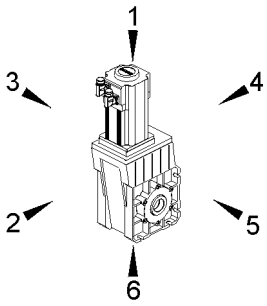
**A**



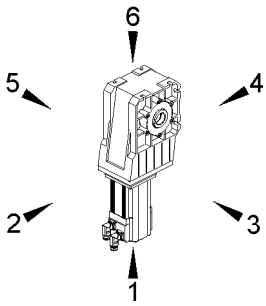

**B**



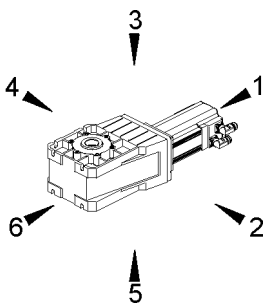

**C**



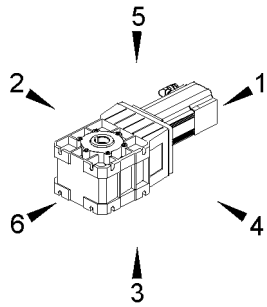

**D**




**E**




**F**




Vollwelle: 3, 5, 8 (3+5)
Hohlwelle: 0
Hohlwelle mit Schrumpfscheibe: 3, 5

ohne Flansch: 0
Flansch: 3, 5, 8 (3+5)
Steckverbinder / Klemmenkasten: 2, 3, 4, 5

| **Basisausführungen** | |
|---|---|
| Farbe | Grundierung grau<br>Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP HC 320 |
| Entlüftung | Entlüftungselemente für GKR06 |
| **Optionen** | |
| Farbe | Sonderlackierung nach RAL |
| Schmierstoff | CLP HC 220 USDA H1 |
| Wellendichtringe | Abtriebswelle: Viton |
| Zubehör | Gummipuffer für Drehmomentabstützung (nur GKR03 / 04)<br>Drehmomentstütze Gewindelochkreis<br>Drehmomentstütze Gehäusefuß (nur GKR05 / 06)<br>2. Abtriebswellenende<br>Abdeckhaube Schrumpfscheibe<br>Hohlwellenabdeckung strahlwasserfest<br>Montagesatz Hohlwellensicherung |

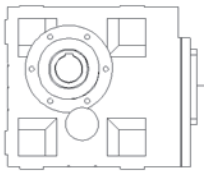
| **Checkliste Bestellangaben** | |
|---|---|
| Produktschlüssel | GKR... |
| Übersetzung | i = ... |
| Wellendurchmesser | d = ... [mm] |
| Flanschdurchmesser | $a_2$ = ... [mm] |
| Einbaulage | A, B, C, D, E, F |
| Lage der Systembausteine | Welle: 3, 5, 8<br>Flansch: 0, 3, 5, 8<br>Steckverbinder / Klemmenkasten: 2, 3, 4, 5 |
| Farbe | |
| Optionen | |

Getriebetyp | Getriebe-größe | Stufen-zahl | Ausführung Antrieb | Ausführung Abtrieb Welle | Ausführung Abtrieb Gehäusebefestigung | Antriebseinheit

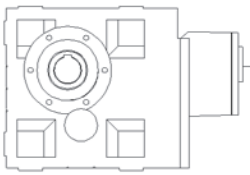
G K S [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ] C [ ] [ ]

siehe Seite 26

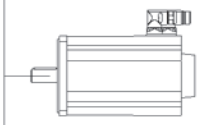
**3** 3-stufig



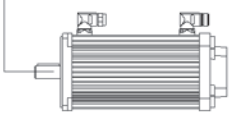
**4** 4-stufig

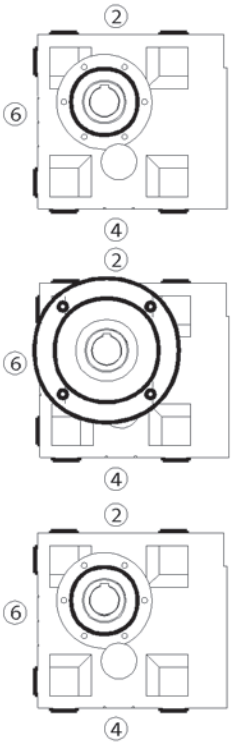


**S** Synchron-Servomotor



**A** Asynchron-Servomotor






**V** Vollwelle mit Passfeder (Welle in Lage 3, 5 oder 3+5)

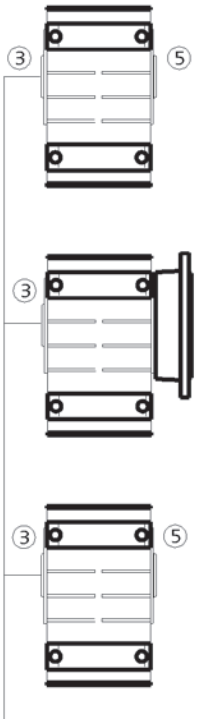


**H** Hohlwelle mit Passfedernut



**S** Hohlwelle mit Schrumpfscheibe (in Lage 3 oder 5)





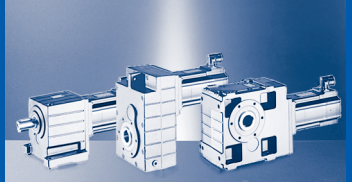

**A R** Fuß (Lage 2+4+6) **und Zentrierung** mit Gewinde-lochkreis

**A K** Fuß (Lage 2+4+6) **und Flansch** (Lage 3, 5 oder 3+5) mit Durchgangs-bohrungen

**B R** Fuß (Lage 2+4+6)

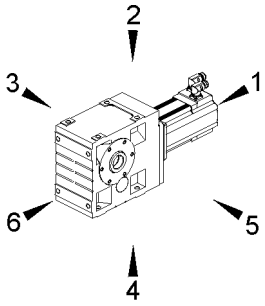
| | Ausführung Abtrieb | | | |
|---|---|---|---|---|
| | V | H | S | K |
| | d x l [mm] | d [mm] | d [mm] | Øa2 [mm] |
| GKS04-3 | 25x50 | 25/30 | 25/30 | 160 |
| GKS05-3/4 | 30x60 | 30/35 | 35 | 200 |
| GKS06-3/4 | 40x80 | 40/45 | 40 | 200[1]/250 |
| GKS07-3/4 | 50x100 | 50/55 | 50 | 250/300 |
| GKS09-3/4 | 60x120 | 60/70 | 65 | 350 |
| GKS11-3/4 | 80x160 | 70/80 | 80 | 400/450 |
| GKS14-3/4 | 100x200 | 100 | 100 | 450 |

[1] Nur bei Ausführung Abtrieb H und S

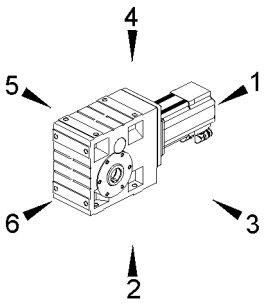


**Einbaulage (A...F) und Position der Systembausteine (1...6)**

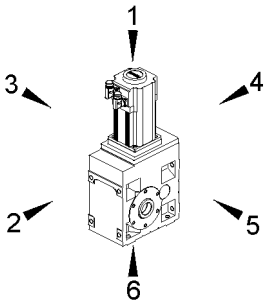
**A**



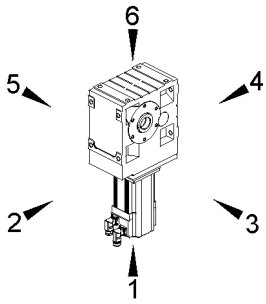

**B**



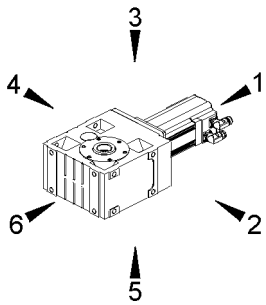

**C**



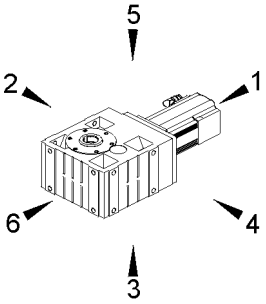

**D**




**E**




**F**

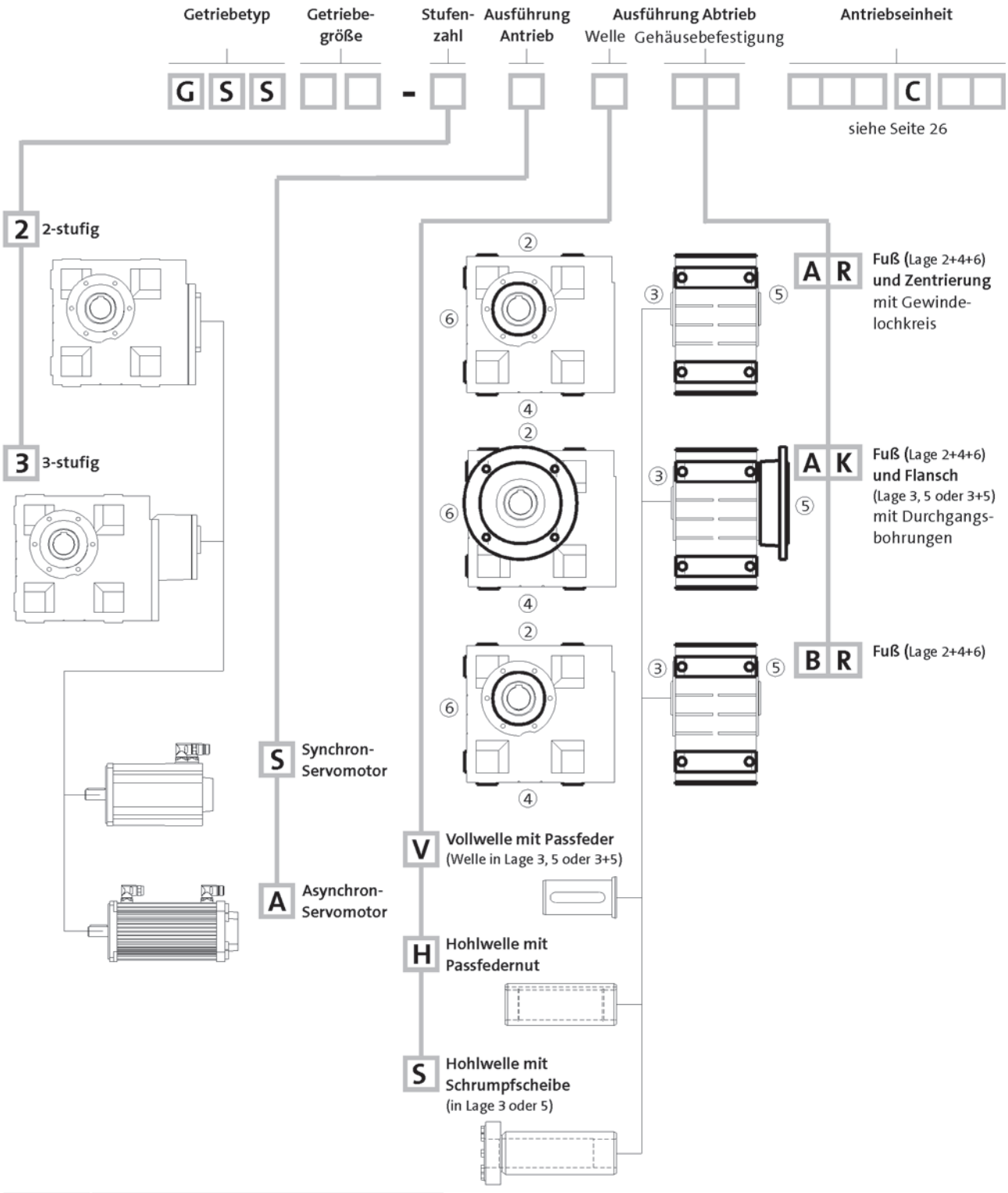



Vollwelle: 3, 5, 8 (3+5)
Hohlwelle: 0
Hohlwelle mit Schrumpfscheibe: 3, 5

ohne Flansch: 0
Flansch: 3, 5, 8 (3+5)
Steckverbinder / Klemmenkasten: 2, 3, 4, 5

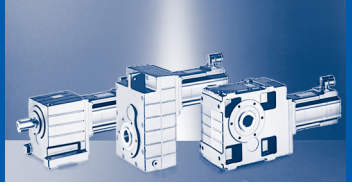
| **Basisausführungen** | |
|---|---|
| Farbe | Grundierung grau<br>Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP HC 320 |
| Entlüftung | Ölkontrollschrauben für GKS05...14<br>Entlüftungselemente für GKS06...14 |
| **Optionen** | |
| Farbe | Sonderlackierung nach RAL |
| Schmierstoff | CLP HC 220 USDA H1 |
| Entlüftung | Entlüftungselemente für GKS05<br>Ausgleichsbehälter für GKS09...14 in Einbaulage C |
| Wellendichtringe | Abtriebswelle: Viton |
| Zubehör | Drehmomentstütze Gewindelochkreis<br>Drehmomentstütze Gehäusefuß<br>2. Abtriebswellenende<br>Abdeckhaube Schrumpfscheibe<br>Hohlwellenabdeckung strahlwasserfest<br>Montagesatz Hohlwellensicherung |

| **Checkliste Bestellangaben** | |
|---|---|
| Produktschlüssel | GKS... |
| Übersetzung | i = ... |
| Wellendurchmesser | d = ... [mm] |
| Flanschdurchmesser | $a_2$ = ... [mm] |
| Einbaulage | A, B, C, D, E, F |
| Lage der Systembausteine | Welle: 3, 5, 8<br>Flansch: 0, 3, 5, 8<br>Steckverbinder / Klemmenkasten: 2, 3, 4, 5 |
| Farbe | |
| Optionen | |



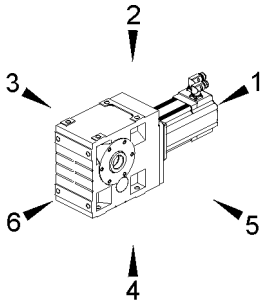

| | Ausführung Abtrieb | | | |
|---|---|---|---|---|
| | V | H | S | K |
| | d x l [mm] | d [mm] | d [mm] | Øa2 [mm] |
| GSS04-2 | 25x50 | 25/30 | 25/30 | 160 |
| GSS05-2/3 | 30x60 | 30/35 | 35 | 200 |
| GSS06-2/3 | 40x80 | 40/45 | 40 | 200[1]/250 |
| GSS07-2/3 | 50x100 | 50/55 | 50 | 250/300 |

[1] Nur bei Ausführung Abtrieb H und S

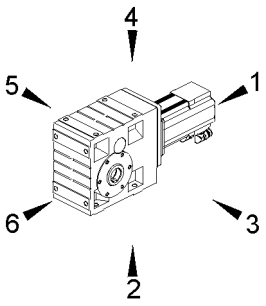


**Einbaulage (A...F) und Position der Systembausteine (1...6)**

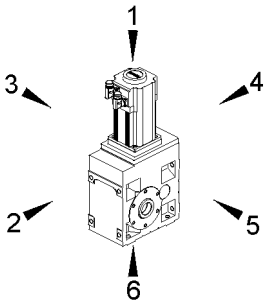
**A**



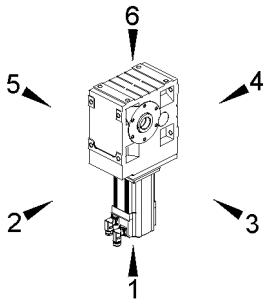

**B**



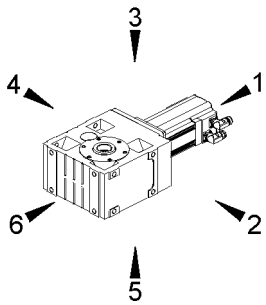

**C**



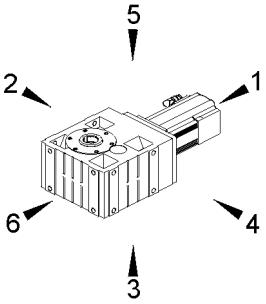

**D**




**E**




**F**

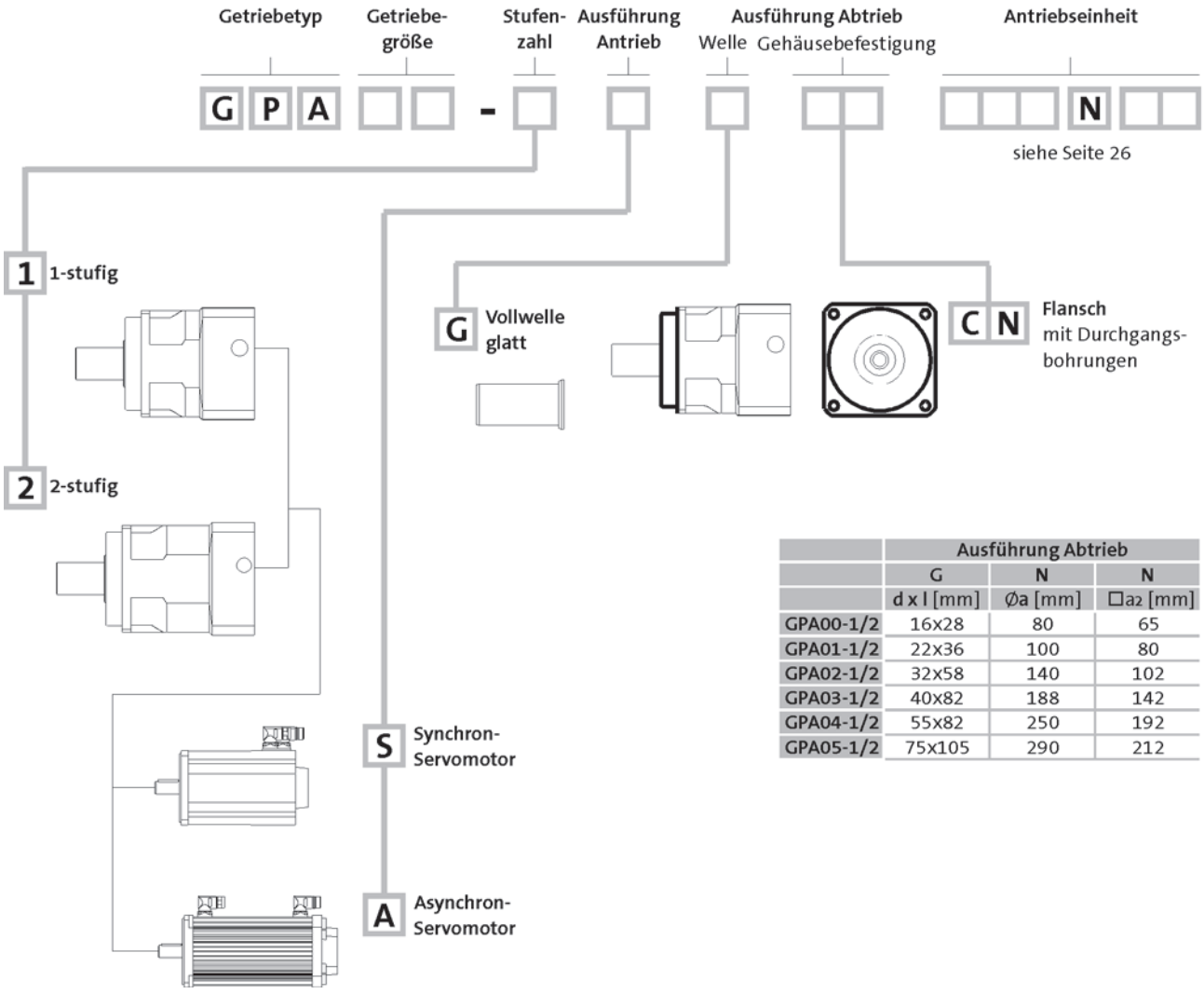



Vollwelle: 3, 5, 8 (3+5)
Hohlwelle: 0
Hohlwelle mit Schrumpfscheibe: 3, 5

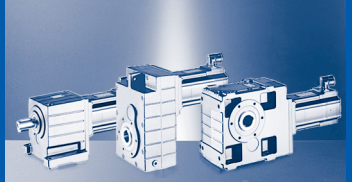
ohne Flansch: 0
Flansch: 3, 5, 8 (3+5)
Steckverbinder / Klemmenkasten: 2, 3, 4, 5

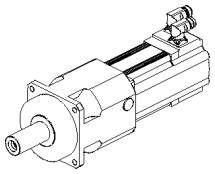
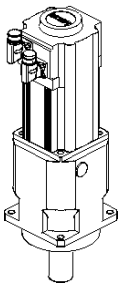
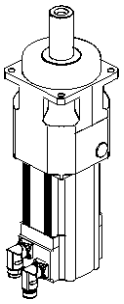
| **Basisausführungen** | |
|---|---|
| Farbe | Grundierung grau<br>Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP PG 460 |
| Entlüftung | Entlüftungselemente für GSS05..07<br>Ölkontrollschrauben für GSS05...07 |
| **Optionen** | |
| Farbe | Sonderlackierung nach RAL |
| Schmierstoff | CLP HC 220 USDA H1 |
| Wellendichtringe | Abtriebswelle: Viton |
| Zubehör | Drehmomentstütze Gewindelochkreis<br>Drehmomentstütze Gehäusefuß<br>2. Abtriebswellenende<br>Abdeckhaube Schrumpfscheibe<br>Hohlwellenabdeckung strahlwasserfest<br>Montagesatz Hohlwellensicherung |

| **Checkliste Bestellangaben** | |
|---|---|
| Produktschlüssel | GSS... |
| Übersetzung | i = ... |
| Wellendurchmesser | d = ... [mm] |
| Flanschdurchmesser | $a_2$ = ... [mm] |
| Einbaulage | A, B, C, D, E, F |
| Lage der Systembausteine | Welle: 3, 5, 8<br>Flansch: 0, 3, 5, 8<br>Steckverbinder / Klemmenkasten: 2, 3, 4, 5 |
| Farbe | |
| Optionen | |




| | Ausführung Abtrieb | | |
|---|---|---|---|
| | G | N | N |
| | d x l [mm] | Øa [mm] | □$a_2$ [mm] |
| GPA00-1/2 | 16x28 | 80 | 65 |
| GPA01-1/2 | 22x36 | 100 | 80 |
| GPA02-1/2 | 32x58 | 140 | 102 |
| GPA03-1/2 | 40x82 | 188 | 142 |
| GPA04-1/2 | 55x82 | 250 | 192 |
| GPA05-1/2 | 75x105 | 290 | 212 |



| Einbaulage (A...D) | | |
|---|---|---|
| A | C | D |
|  |  |  |

| Basisausführungen | |
|---|---|
| Farbe | Lackierung RAL 9005 (Tiefschwarzmatt) |
| Schmierstoff | Synthetisch CLP PAO 150 |

| Checkliste Bestellangaben | |
|---|---|
| Produktschlüssel | GPA... |
| Einbaulage | A, C, D |

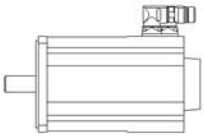
Ausführung Antrieb | Antriebseinheit

Motortyp | Motorgröße | Bemessungs-drehzahl | Netzspannung | Drehzahl-/ Winkelgeber | Bremse

**M C S** – Synchron-Servomotor

(Beispiel: 14L)

Wert 100/min (Beispiel: 2000 = 20)



| Netzspannung | |
|---|---|
| 400 V | - |
| 230 V | L |

| Drehzahl-/ Winkelgeber | |
|---|---|
| R S 0 | Resolver p =1 |
| S R S | SinCos-Absolutgeber Singleturn, Hyperface®, SRS50 |
| S R M | SinCos-Absolutgeber Multiturn, Hyperface®, SRM50 |
| E C N | SinCos-Absolutgeber Singleturn, EnDat, ECN 1313 |
| E Q N | SinCos-Absolutgeber Multiturn, EnDat, EQN 1325 |
| E Q I | SinCos-Absolutgeber Multiturn, EnDat, EQI 1329 |
| C 4 0 | Inkrementalgeber TTL mit Kommunikationssignal Renco R35i |

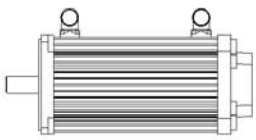
| Bremse | |
|---|---|
| B 0 | ohne Bremse |
| P 1 | PM-Bremse DC 24 V |
| P 2 | PM-Bremse DC 24 V verstärkt |

Motortyp | Motorgröße | Bemessungs-drehzahl | Netzspannung | Drehzahl-/ Winkelgeber | Bremse

**M C A** – Asynchron-Servomotor

(Beispiel: 14L)

Wert 100/min (Beispiel: 2000 = 20)



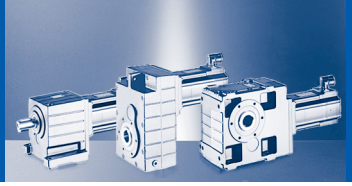
| Netzspannung | |
|---|---|
| 400 V | - |

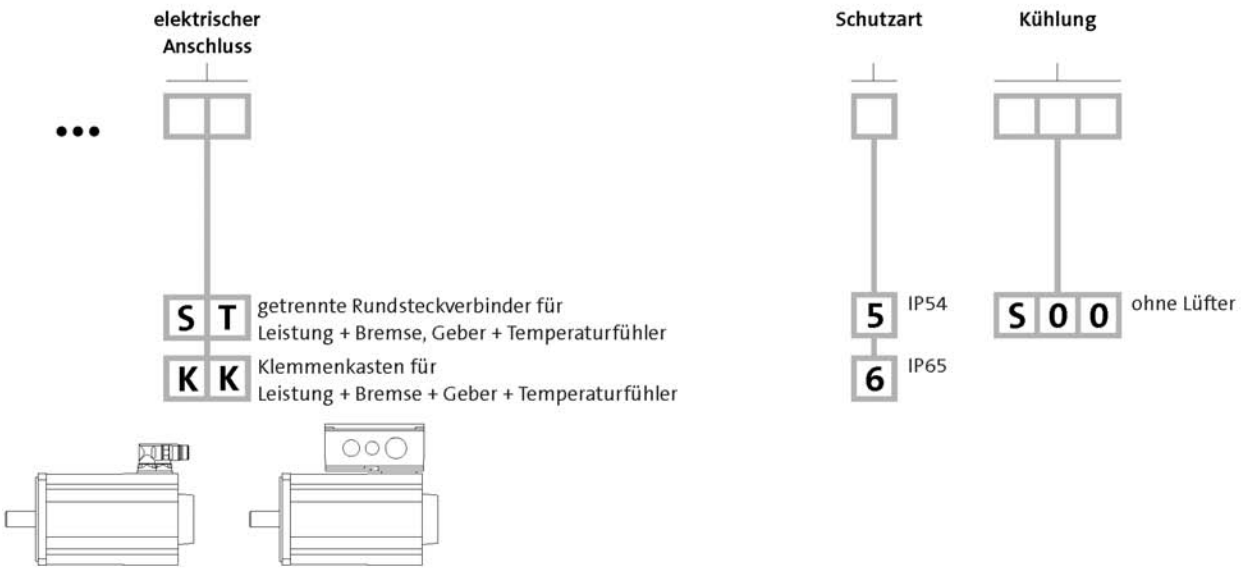
| Drehzahl-/ Winkelgeber | |
|---|---|
| R S 0 | Resolver p =1 |
| S R S | SinCos-Absolutgeber Singleturn, Hyperface®, SRS50 |
| S R M | SinCos-Absolutgeber Multiturn, Hyperface®, SRM50 |
| E C N | SinCos-Absolutgeber Singleturn, EnDat, ECN 1313 |
| E Q N | SinCos-Absolutgeber Multiturn, EnDat, EQN 1325 |
| E Q I | SinCos-Absolutgeber Multiturn, EnDat, EQI 1329 |
| S 2 0 | Inkrementaler SinCos-Geber, Is2048, ITD 22 |
| T 2 0 | Inkrementalgeber TTL, 2048, ITD 21 |
| C D D | Inkrementalgeber TTL, 2048, CDD 50 |

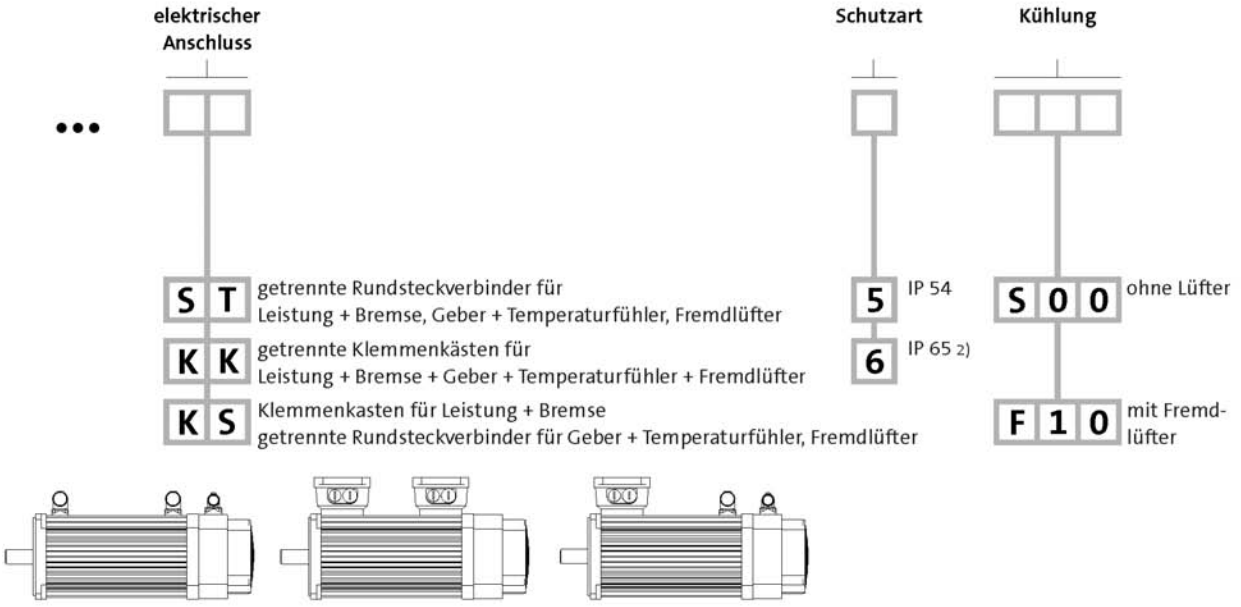
| Bremse | |
|---|---|
| B 0 | ohne Bremse |
| P 1 | PM-Bremse DC 24 V |
| P 2 | PM-Bremse DC 24 V verstärkt |
| P 5 | PM-Bremse DC 205 V 1) |
| P 6 | PM-Bremse DC 205 V verstärkt 1) |

1) Nicht bei UL-Ausführung möglich

| Bremsenzuordnung | | |
|---|---|---|
| Getriebetyp | Motor | Bremse |
| GPA | MCA10...21 | P1 / P5 |
| GST/GFL | MCA10...14 | P2 / P6 |
| GKS/GKR/GSS | MCA17...21 | P1 / P5 |






2) Nicht mit Fremdlüfter möglich

Innovative Getriebemotoren, gepaart mit leistungsfähiger Antriebselektronik für höchste Anforderungen an Dynamik, Positioniergenauigkeit und Robustheit:
Das ist G-motion servo.

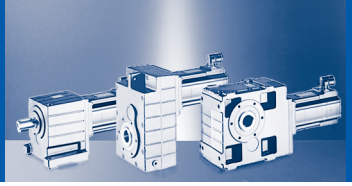


Mit einer großen Vielfalt an Getriebemotoren in den Varianten
- Stirnradgetriebe
- Flachgetriebe
- Kegelradgetriebe
- Kegelstirnradgetriebe
- Stirnradschneckengetriebe
- Servo-Planetengetriebe

bietet Lenze hohe Funktionalität bei Einhaltung vieler Industriestandards. Fein gestufte Abtriebsdrehzahlen ermöglichen eine optimale Auswahl für Ihre Antriebsaufgabe.
Lenze-Servo-Getriebemotoren sind erhältlich im Leistungsbereich von 0.25...20.3 kW.

Zusammen mit den Lenze-Servoreglern bieten diese Getriebemotoren eine perfekte Antriebseinheit mit hoher Dynamik.
- Leistungsbereich der Synchron-Servomotoren:
  0.25...10 kW
- Leistungsbereich der Asynchron-Servomotoren:
  0.8...20.3 kW





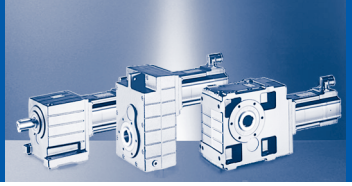
## Verwendete Bezeichnungen im Katalog:

| | |
|---|---|
| □ | Platzhalter |
| α | Angriffswinkel der Radialkraft |
| φ | Stufensprung |
| η [%] | Mechanischer Wirkungsgrad |
| $\eta_A$ [%] | Mechanischer Anlaufwirkungsgrad Getriebe |
| $\eta_{c=1}$ [%] | Mechanischer Getriebewirkungsgrad bei Getriebebelastung c = 1 |
| $\eta_G$ [%] | Mechanischer Wirkungsgrad Getriebe |
| ϑ [°C] | Temperatur |
| **AC** | Wechselstrom / -spannung |
| **BD** [h] | Betriebsdauer |
| **c** | Belastbarkeit der Getriebemotoren |
| **DC** | Gleichstrom / -spannung |
| **ED** | Einschaltdauer |
| $f_\alpha$ | Wirkrichtungsfaktor an der Abtriebswelle |
| $f_N$ [Hz] | Bemessungsfrequenz |
| $f_w$ | Lastangriffsbeiwert an der Abtriebswelle |
| $f_z$ | Radialkraftbeiwert des Übertragungselementes |
| **Fa** [N] | Angreifende Axialkraft |
| $Fa_{Tab}$ [N] | Tabellenwert der Axialkraft |
| $Fa_{zul}$ [N] | Zulässige Axialkraft |
| **Fr** [N] | Angreifende Radialkraft |
| $Fr_{Tab}$ [N] | Tabellenwert der Radialkraft |
| $Fr_{zul}$ [N] | Zulässige Radialkraft |
| **H** [m] | Aufstellungshöhe über NN |
| **i** | Übersetzung |
| $i_g$ | Genaue Übersetzung |
| $I_B$ [A] | Bemessungsstrom Bremse |
| $I_{max}$ [A] | Maximaler Strom |
| $I_M$ [A] | Bemessungsstrom des Motors |
| $I_0$ [A] | Stillstandsdauerstrom |
| $J_B$ [kgcm²] | Massenträgheitsmoment der Bremse |
| $J_G$ [kgcm²] | Massenträgheitsmoment des Getriebes, reduziert auf die Motorwelle |
| $J_L$ [kgcm²] | Massenträgheitsmoment der Last an der Abtriebswelle |
| $J_M$ [kgcm²] | Massenträgheitsmoment des Motors |
| **k** | Betriebsfaktor (in Anlehnung an DIN 3990) |
| $k_I$ | Intensität der Getriebebelastbarkeit |
| $k_J$ | Lastabstimmungsfaktor |
| $k_L$ | Überlastfaktor |
| $k_{n1}$ | Drehzahlkorrekturfaktor Umgebungstemperatur |
| $k_{n2}$ | Drehzahlkorrekturfaktor Einbaulage |
| $k_{n3}$ | Drehzahlkorrekturfaktor Einschaltdauer / mittlere Drehzahl |
| $k_m$ | Drehzahlkorrekturfaktor mittlere Drehzahl |
| $KE_{LL}$ [V / 1000 r/min] | Spannungskonstante Leiter-Leiter |
| $Kt_0$ [Nm/A] | Drehmomentkonstante Stillstand |
| $L_{1\sigma}$ [mH] | Ständerstreuinduktivität |
| $L_{2\sigma'}$ [mH] | Rotorstreuinduktivität (bezogen auf Ständer) |
| $L_h$ [mH] | Hauptinduktivität |
| $L_{St}$ [mH] | Wicklungsinduktivität je Strang |
| **m** [kg] | Masse |
| $M_B$ [Nm] | Haltemoment der Bremse |
| $M_{eff}$ [Nm] | Effektivmoment |
| $M_L$ [Nm] | Lastdrehmoment |
| $M_{L,max}$ [Nm] | Maximales Lastdrehmoment |
| $M_{L,z}$ [Nm] | Stationäres Lastdrehmoment pro Zeitabschnitt |
| $M_{max}$ [Nm] | Maximales Drehmoment |
| $M_N$ [Nm] | Bemessungsdrehmoment |
| $M_{S,z}$ [Nm] | Beschleunigungsmoment |
| $M_{S,eff}$ [Nm] | Effektivmoment am Motor |
| $M_z$ [Nm] | Abtriebsdrehmoment pro Zeitabschnitt |
| $M_{P,max}$ [Nm] | Maximaldrehmoment vom Profil |
| $M_0$ [Nm] | Stillstandsdauerdrehmoment |
| $M_1$ [Nm] | Antriebsdrehmoment |
| $M_2$ [Nm] | Abtriebsdrehmoment |
| $M_{2,max}$ [Nm] | Maximales Abtriebsdrehmoment |
| $M_{2,GN}$ [Nm] | Getriebenennmoment am Abtrieb bei c=1 und $n_1$ = 1400 r/min |
| **N** | Anläufe |
| $n_{L,z}$ [r/min] | Lastdrehzahl pro Zeitabschnitt |
| $\Delta n_{L,z}$ [r/min] | Lastdrehzahldifferenz pro Zeitabschnitt |
| $n_{max}$ [r/min] | Maximale Drehzahl |
| $n_N$ [r/min] | Bemessungsdrehzahl |
| $n_m$ [r/min] | Mittlere Drehzahl |
| $n_1$ [r/min] | Antriebsdrehzahl |
| $n_{1,max}$ [r/min] | Maximale Antriebsdrehzahl |
| $n_2$ [r/min] | Abtriebsdrehzahl |
| $n_{2,Eck}$ [r/min] | Abtriebsdrehzahl bei Motorbemessungsdrehzahl |

## Verwendete Bezeichnungen im Katalog:

| | |
|---|---|
| $n_{2,th}$ [r/min] | Thermische Grenzdrehzahl am Abtrieb |
| $P_N$ [kW] | Bemessungsleistung |
| $R_1$ [Ω] | Wicklungswiderstand Strang |
| $R_{2'}$ [Ω] | Läuferwiderstand (bezogen auf Ständer) |
| $R_{UV}$ [Ω] | Wicklungswiderstand zwischen 2 Klemmen |
| T [s] | Lastspieldauer |
| $t_L$ [%] | Laufzeit bei Maximalmoment |
| $T_U$ [°C] | Betriebsumgebungstemperatur |
| $\Delta t_z$ [s] | Einzelne Zeitabschnitte |
| $U_B$ [V] | Bemessungsspannung Bremse |
| $U_N$ [V] | Bemessungsspannung |
| $z_g$ | Multiplizierte Zähnezahlen (getriebene Zahnräder) |
| $z_t$ | Multiplizierte Zähnezahlen (treibende Zahnräder) |

| | |
|---|---|
| **IM** | International Mounting Code |
| **IP** | International Protection Code |
| **CE** | Communauté Européenne |
| **CSA** | Canadian Standards Association |
| **DIN** | Deutsches Institut für Normung |
| **EMV** | Elektromagnetische Verträglichkeit |
| **EN** | Europäische Norm |
| **IEC** | International Electrotechnical Commission |
| **NEMA** | National Electrical Manufacturers Association |
| **UL** | Underwriters Laboratory |
| **UR** | Underwriters Laboratory recognized component |
| **VDE** | Verband deutscher Elektrotechniker |



## Grundlagen zu den angegebenen Daten des Kataloges

**Leistungen, Drehmomente und Drehzahlen**
Die im Katalog angegebenen Leistungen, Drehmomente und Drehzahlen sind gerundete Werte und gelten für

- Betriebsdauer täglich 8 h, 240 Tage
- Umgebungstemperatur bis 30 °C
- Einschaltdauer 5.5 h am Tag
- mittlere Drehzahlausnutzung bezogen auf die Lastdrehzahl des Getriebemotors 80 %
- Aufstellungshöhe bis 1000 m über NN
- im Katalog aufgeführte Einbaulagen und Bauformen (Auswahltabelle berücksichtigt Einbaulage A)
- Standardschmierstoff

Bei anderen Einsatzbedingungen können die erreichbaren Werte von den genannten abweichen.
Bei extremen Einsatzbedingungen fragen Sie bitte die Sie betreuende Lenze-Niederlassung.

**Belastbarkeit c der Getriebe**
Kennwert für die Belastbarkeit von Lenze-Getriebemotoren.

- **c** ist das Verhältnis von zulässigem Bemessungsmoment des Getriebes zum gelieferten Bemessungsmoment der Antriebskomponente (z. B. des integrierten Lenze-Motors)
- **c** muss immer größer sein als der für die Anwendung ermittelte Betriebsfaktor k

**Betriebsfaktor k (in Anlehnung an DIN 3990)**
Berücksichtigt den Einfluss tatsächlich vorhandener, zeitlich veränderlicher Belastungen während der vorgesehenen Laufzeit von Getriebemotoren.
**k** ist abhängig von

- der Belastungsart
- der Intensität der Belastung
- temporären Einflüssen

**Wir wollen Sie schnell und korrekt beliefern. Hierfür benötigen wir von Ihnen vollständige Bestellangaben.**

Für eine schnelle und korrekte Lieferung benötigen wir:
- Ihre Adresse und Ihre Bestelldaten
- unsere Produktschlüssel der einzelnen Produkte dieses Kataloges
- Ihre Lieferdaten wie Liefertermin und Lieferadresse

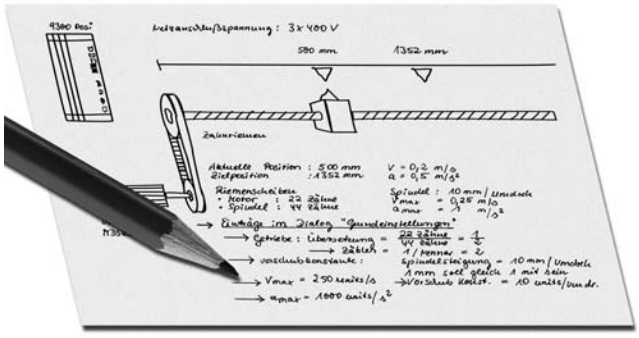
**Bestellweg**
Nutzen Sie die Checkliste Bestellangaben, um alle notwendigen Bestellangaben der einzelnen Produkte zu ermitteln.

Die Checkliste Bestellangaben, den Produktschlüssel, die Basisausführungen, Optionen, Einbaulage und Position der Systembausteine und finden Sie im Kapitel Allgemeines – Produktschlüssel.

Eine Übersicht der Lenze-Niederlassungen finden Sie auf den letzten Seiten dieses Kataloges.



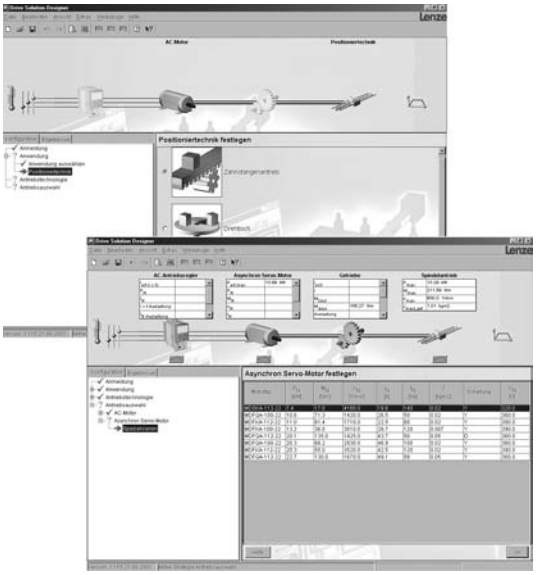
Lenze möchte Ihnen bei der Optimierung Ihrer Projektplanung helfen. Antriebsauslegung und -dimensionierung sind bei jeder Anlagenplanung die Grundlage. Die vorliegende Projektierungsanleitung für Lenze-Servo-Getriebemotoren begleitet Sie über die Eingangsgrößen Drehmoment und Drehzahl hin zu einem funktionellen und wirtschaftlichen Antriebsstrang. Ihre zuständige Lenze-Niederlassung unterstützt Sie bei der Antriebsauslegung.
Bitte sprechen Sie uns an.



**Von der Ideenskizze zur fertigen Antriebslösung!**

Nach dem gemeinsamen aufnehmen der mechanischen Parameter und dem Bewegungsprofil, wird die Antriebsauslegung und die Optimierung mit dem „Drive Solution Designer“ im Handumdrehen durch den Vertriebsmitarbeiter erstellt.
Die Originalanwendungsdaten und die Ergebnisse des Drive Solution Designers werden strukturiert in einem Dokument zusammengefasst. Die grafische Analyse bietet klare und umfassende Informationen über die Antriebslast und Antriebskonfiguration. Die für die Lösung erforderlichen Hardwareanforderungen werden dokumentiert, um die Bestellung zu vereinfachen und eine schnelle Lieferung der Gesamtlösung zu ermöglichen.





# Antriebsauslegung
## Ziel der Auslegung

Im Folgenden wird die Auslegung von Antrieben mit Servo-Getriebemotoren erläutert.

**Ziel der Auslegung**
ist es, einen für den jeweiligen Anwendungsfall optimalen Servo-Getriebemotor auszuwählen, der die Anforderungen für den konkreten Einsatzfall zuverlässig erfüllt. Dabei werden die jeweiligen Einsatzbedingungen berücksichtigt:

- Umgebungstemperatur
- Einbausituation
- Lastkollektiv

Zur Vereinfachung wird die Auslegung für Standardbetriebsarten und für allgemeine Lastkollektive angegeben:

- konstante Belastung, Betriebsart **S1** *
- Kurzzeitbetrieb **S2**
- Aussetzbetrieb **S3**
- Durchlaufbetrieb **S6** *
- Lastprofile für ein **anwendungsspezifisches Lastkollektiv**

* Im Sinne einer hohen Lebenserwartung empfiehlt Lenze bei den Betriebsarten S1 und S6 Motoren mit niedriger Bemessungsdrehzahl einzusetzen.

**Die Auslegung beinhaltet 3 Elemente:**

- **Erfüllung der Antriebsfunktion** können geforderte Drehzahlen, Drehmomente, Beschleunigungen mit dem gewählten Antrieb erreicht werden?
- **mechanische Festigkeit** kann der Antrieb die auftretenden Drehmomente und Kräfte mechanisch übertragen?
- **thermische Auslegung** bleibt die Betriebstemperatur innerhalb der zulässigen Grenzen, so dass eine vorzeitige Alterung vermieden wird?

**Antriebsfunktion**
Anhand der geforderten Prozessbedarfswerte wird ein Antrieb ausgewählt, bei dem alle Betriebspunkte innerhalb der Drehzahl-Drehmoment-Grenzkennlinien liegen. Als Ergebnis wird ein Getriebe passender Übersetzung mit einem Motor passender Drehzahl mit einem Umrichter mit ausreichendem Maximalstrom ausgewählt. Weitere Grenzen (Maximaldrehzahl, Aufstellungshöhe) werden in Tabellen angegeben.

**Mechanische Festigkeit**
Anhand der auftretenden Kräfte und Drehmomente wird mit Hilfe des Betriebsfaktors und des Getriebedrehmomentes ein Antrieb ausgewählt, der eine ausreichende mechanische Festigkeit (Dauerfestigkeit der Verzahnung für die periodisch auftretenden Drehmomente und Zeitfestigkeit für die sporadisch auftretenden Drehmomente) besitzt.




**Thermische Auslegung**
Für den **Umrichter** erfolgt die thermische Auslegung anhand des Umrichterdauerstromes bzw. anhand des erreichbaren Dauerdrehmomentes der Kombination aus Motor und Umrichter.

Für den **Motor** geschieht die thermische Auslegung anhand der mittleren Drehzahl und des effektiven Drehmomentes.

Für das **Getriebe** geschieht die thermische Auslegung anhand der mittleren Drehzahl und des Dauerdrehmomentes der Kombination aus Motor und Getriebe. Die Angabe der thermischen Grenzdrehzahl ist dabei als Empfehlung zu verstehen. Die mittlere Drehzahl des Antriebs sollte die angegebenen Werte nicht überschreiten.

**Auslegung in drei Schritten**
Die Auslegung von Servo-Getriebemotoren gliedert sich in drei Schritte, die für die oben genannten Betriebsarten (S1, S2, S3, S6, Profil) getrennt aufgeführt sind:

**Ermittlung der Eingangsgrößen, u.a.:**
- Lastmoment, Lastdrehzahl, Beschleunigung (bei Drehzahlprofilen mehrere Betriebspunkte mit Zeitdauern)
- Maximaldrehmoment
- Einbaulage
- wirksame äußere Kräfte
- Art der Drehmomentübertragung

**Berechnung der Prozessbedarfswerte, u.a.:**
- Gesamtdrehmomente aus Lastmoment und Beschleunigung
- maximales Lastmoment
- Effektivmoment
- mittlere Drehzahl
- Maximaldrehzahl

**Auswahl des Servo-Getriebemotors und Überprüfung der Auswahl auf Erfüllung der Bedarfswerte, u.a.:**
- Berechnung Gesamtmoment auf Motorseite (Effektivmoment, Maximalmoment)
- thermische Überprüfung Motor anhand Effektivmoment und mittlerer Drehzahl
- thermische Überprüfung Getriebe anhand mittlerer Drehzahl und Effektivmoment
- Maximalmomentüberprüfung Getriebe anhand periodisch auftretender Drehmomente und sporadisch auftretender Maximaldrehmomente
- Überprüfung Motor-Umrichter-Kombination anhand der Maximaldrehmomente
- Überprüfung Lastabstimmung
- Überprüfung Axial- und Radialkraft Getriebe

Um zu einem **geeigneten Antrieb** zu kommen, ist insbesondere der Auswahl und Überprüfung des Antriebes **besonderes Augenmerk** zu schenken. Im Folgenden sind die einzelnen Elemente der Auslegung und Überprüfung genauer erläutert. Dabei steht die **Einhaltung von Grenzen des Servo-Getriebemotoren-Antriebs** im Vordergrund (funktionelle Grenzen, thermische Grenzen, mechanische Grenzen).

## Auslegung Servo-Getriebemotoren für kinematische Profile, Betriebsarten S1, S2, S3, S6 und Drehzahlprofile

Geeignet für einfache lineare Geschwindigkeits-Profile, nicht für S-Kurven oder ähnliches. Bei komplexen oder grenzlastigen Auslegungen wenden Sie sich bitte an ihre Lenze-Niederlassung.

**Standardbetriebsbedingungen:**

- 1-Schichtbetrieb mit täglich 8 h, 240 Tage / a
- Umgebungstemperatur bis 30 °C
- Betriebsdauer 5.5 h am Tag
- mittlere Drehzahlausnutzung bezogen auf die Lastdrehzahl des Getriebemotors 80 %
- Einbaulage A
- Aufstellungshöhe bis 1000 m über NN

**Berücksichtigt**

- Netznennspannung AC 400 V, 3-phasig
- Umgebungstemperatur
- Aufstellungshöhe
- Auslegung mit Drehzahl-Drehmoment-Kennlinien 9400, 9300 und ECS bei Netzspannungen 400 V, 3-phasig
- Prozessbedarf
- Vorauswahl des Motors
- Belastbarkeit des Getriebes
- Soll-Getriebeübersetzung
- Max. zulässige Getriebeeintriebsdrehzahl
- Axial- und Radialbelastung der Getriebeabtriebswelle
- gesamtes reduziertes Trägheitsmoment
- Lastabstimmung der Trägheitsmomente

**Nicht berücksichtigt**

- korrekte Betrachtung des motorischen/generatorischen Wirkungsgrad
- Zubehör wie z. B. Bremschopper, Bremswiderstände, Rückführsysteme, Netzfilter
- Stromderating bei 9300 Servo bei kleinen Drehzahlen
- besondere Umgebungsbedingungen wie z. B. besondere Netzeigenschaften, erhöhte Temperaturen/Aufstellhöhen, Verschmutzungen, Aufstellung im Freien, Explosionsschutz
- maximaler Stillstandsstrom
- Setzen der Reglersperre zur thermischen Entlastung des Antriebes




Bei der Auswahl eines Motors ist die Betriebsart von Bedeutung. Ein Motor erwärmt sich z. B. bei kurzfristiger Belastung weniger als bei Dauerbelastung. Man unterscheidet nach EN 60034 die Betriebsarten S1 bis S8.

**Dauerbetrieb S1**
Die Betriebsdauer bei Bemessungsleistung ist so lang, dass die Beharrungstemperatur der Maschine erreicht wird. Der Motor wird dauernd mit Bemessungsleistung betrieben.

**Kurzzeitbetrieb S2**
Die Betriebsdauer ist im Vergleich zur nachfolgenden Pause so kurz, dass die Beharrungstemperatur nicht erreicht wird. In der anschließenden längeren Pause kühlt der Motor sich auf die Ausgangstemperatur ab.

**Aussetzbetrieb S3, S4, S5**
Gleichartige Spiele setzen sich zu einer Folge zusammen. Die Spielzeit beträgt normalerweise Zehn Minuten.
- S3: Der Anlaufstrom ist für die Erwärmung des Motors unerheblich
- S4: Der Anlaufstrom trägt zur Erwärmung des Motors bei
- S5: Anlaufstrom und Bremsstrom tragen zur Erwärmung des Motor bei

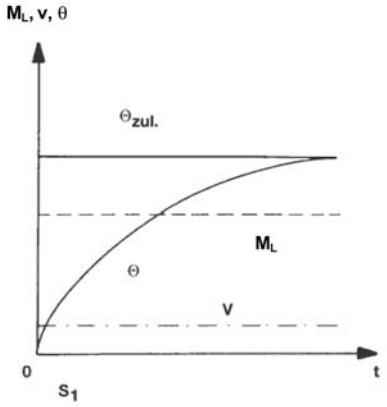
**Durchlaufbetrieb mit Aussetzbelastung S6**
Der Motor wird in den Leerlaufphasen weiterhin belüftet und dadurch abgekühlt.

**Ununterbrochener Betrieb mit Anlauf und Bremsung S7**
Der Motor wird nahezu ohne Pausen betrieben.

**Ununterbrochener Betrieb S8 mit Polumschaltung**
Die Maschine läuft ständig unter Last, jedoch mit häufig wechselnden Drehzahlen.

**Auslegung Servo-Getriebemotoren für Betriebsart S1 (EN 60034)**

Bei der Betriebsart S1 wird der Antrieb konstant belastet, ggf. Drehrichtungswechsel, Wechsellast.
Voraussetzung: konstante Verlustleistung, Vernachlässigung des Anlaufvorgangs (konstante Erwärmung)




| Erforderliche Eingangsgrößen | | | |
|---|---|---|---|
| Betriebsdauer / Tag | BD = | | [h] |
| mittlere Drehzahlausnutzung des Getriebemotors bezogen auf die Lastdrehzahl $n_L$ | | | [%] |
| Umgebungstemperatur | $T_u$ = | | [°C] |
| Aufstellungshöhe über NN | H = | | [m] |
| Radialkraft | Fr = | | [N] |
| Axialkraft | Fa = | | [N] |
| Übertragungselement am Getriebe (Zahnräder, Kettenräder ...) | | | |
| Wirkdurchmesser des Übertragungselements | $d_w$ = | | [mm] |
| Lastmoment | $M_L$ = | | [Nm] |
| Lastdrehzahl | $n_L$ = | | [r/min] |
| Kurzzeitiges Maximalmoment (Not-Aus, Schnellstopp, gelegentlicher Schweranlauf) | $M_{L,max}$ = | | [Nm] |
| Laufzeit bei Maximalmoment | $t_L$ = | | [%] |

| Getriebe- und Servomotorausführung bestimmen | |
|---|---|
| Getriebeart (GST, GFL, GKR, GKS, GSS, GPA) | |
| Einbaulage (A, B, C, D, E, F) | |
| Abtriebseitige Ausführungen (Wellenausführung: Hohlwelle, Vollwelle ...) | |
| Ausführung Antrieb (**A** asynchron / **S** synchron) | |
| Kühlungsart (**S00** ohne Lüfter / **F10** mit Fremdlüfter) | |

→ 14 - Allgemeines - Produktschlüssel




| **Getriebegröße anhand der Kräfte bestimmen** | | |
|---|---|---|
| Bestimmung der vorhandenen Axial- und Radialkräfte auf der Getriebewelle | | |
| | **Berechnung** | **Überprüfung** |
| Radialkraftbeiwert des Übertragungselementes | $f_z$ = | |
| Radialkraft | $Fr = 2000 \cdot \frac{M_{L,max} \cdot f_z}{d_w}$ | $Fr \le Fr_{zul} = \min\left(f_w \cdot f_\alpha \cdot Fr_{Tab}; f_w \cdot Fr_{max}\right)$ |
| Axialkraft | | $Fa \le Fa_{zul} = Fa_{Tab}$ , $Fr = 0$ |

→ 52 - $f_z$

→ Zulässige Radial- und Axialkräfte G□□ [N]
$Fr_{Tab}$, $Fa_{Tab}$, $f_w$, $f_\alpha$

| **Drehzahlkorrekturfaktoren bestimmen** | |
|---|---|
| Umgebungstemperatur, Aufstellungshöhe | $k_{n1}$ = |
| Einbaulage | $k_{n2}$ = |
| mittlere Drehzahlausnutzung des Getriebemotors (in % von $n_L$) und tägliche Betriebsdauer | $k_{n3}$ = |
| | $k_n = k_{n1} \cdot k_{n2} \cdot k_{n3}$ |

→ 51 - $kn_1$, $kn_2$, $kn_3$

| **Servo-Getriebemotor-Umrichter-Kombination auswählen und überprüfen** | | | |
|---|---|---|---|
| Im Sinne einer hohen Lebenserwartung empfiehlt Lenze, bei den Betriebsart S1 und S6 Motoren mit niedriger Bemessungsdrehzahl einzusetzen. | | | |
| | **Überprüfung** | **Auswahl** | |
| Abtriebsdrehmoment | $M_2 \ge M_L$ | $M_2$ = | [Nm] |
| Abtriebsdrehzahl (Empfehlung) | $n_{2,th} \ge \frac{n_L}{k_n}$ | $n_{2,th}$ = | [r/min] |
| Abtriebsdrehzahl | $n_{2,Eck} \ge n_L$ | $n_{2,Eck}$ = | |
| Wechsellasteinfluss: keine Wechsellast | $M_{2,GN} \ge M_L$ | $M_{2,GN}$ = | [Nm] |
| Wechsellasteinfluss: bei Wechsellast | $M_{2,GN} \ge M_L \cdot 1.4$ | | |
| Übersetzung | | i = | |
| Belastbarkeit des Getriebemotors | | c = | |
| Kurzzeitiges Maximalmoment | $M_{2,max} = M_{2,GN} \cdot 1.5 \ge M_{L,max}$ | $M_{2,max}$ = | [Nm] |

→ Auswahltabellen G□□ [Nm]
$M_2$, $M_{2,GN}$, $n_{2,th}$, $n_{2,Eck}$, i, c

→ 50 - Motoren für die Betriebsart S1 und S6

| Bestimmung der erforderlichen Getriebebelastbarkeit | | |
|---|---|---|
| Intensität berechnen | ohne Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2}$<br>bei Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2} \cdot 1.4$ | $k_I$ = |
| Bei Laufzeit $t_L$ > 10 %:<br>Intensität $k_I$ aus Berechnung berücksichtigen<br>Bei Laufzeit $t_L \leq 10$ %:<br>Belastungsfaktor k aus Diagramm berücksichtigen | | k = |
| erforderliche Belastbarkeit | $t_L > 10\% \rightarrow c \geq k_I$<br>$t_L \leq 10\% \rightarrow c \geq k$ | c = |

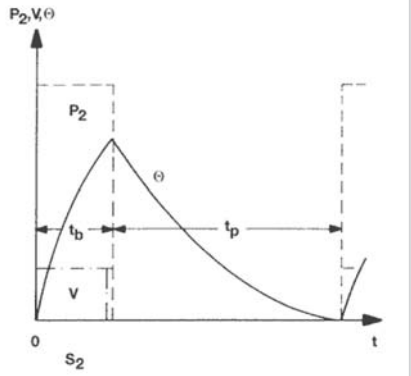
→ 52 - k

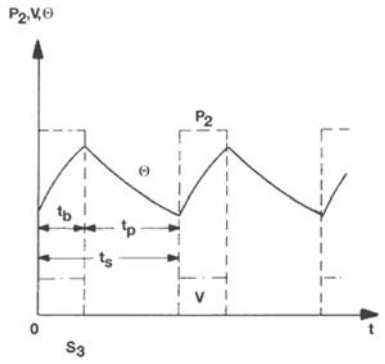


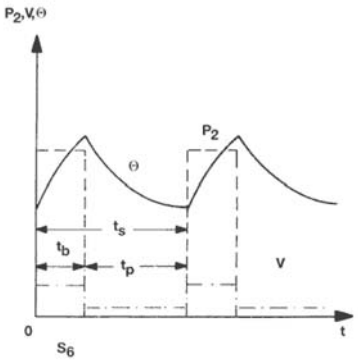

**Auslegung Servo-Getriebemotoren für Betriebsart S2, S3 und S6 (EN 60034)**

**Kurzzeitbetrieb S2:** kurzzeitiges Fahren des Antriebs mit anschließender „langer“ Pause
**Periodischer Aussetzbetrieb S3:** periodisches Wechseln des Antriebes zwischen an und aus (maximale Zykluszeit Zehn Minuten)

**Periodische Aussetzbelastung S6:** Die Belastung wechselt bei konstant drehendem Motor zwischen an und aus (maximale Zykluszeit Zehn Minuten)
Der Beschleunigungsvorgang wird nicht berücksichtigt. Bei dynamischen Anwendungen muss die Auslegung nach Profil durchgeführt werden.




| Erforderliche Eingangsgrößen | | | |
|---|---|---|---|
| Betriebsdauer / Tag | BD = | | [h] |
| mittlere Drehzahlausnutzung des Getriebemotors bezogen auf die Lastdrehzahl $n_L$ | | | [%] |
| Betriebsart | S2 - ED =<br>S3, S6 - ED = | | [min]<br>[%] |
| Umgebungstemperatur | $T_u$ = | | [°C] |
| Aufstellungshöhe über NN | H = | | [m] |
| Radialkraft | Fr = | | [N] |
| Axialkraft | Fa = | | [N] |
| Übertragungselement am Getriebe (Zahnräder, Kettenräder ...) | | | |
| Wirkdurchmesser des Übertragungselements | $d_w$ = | | [mm] |
| Lastmoment | $M_L$ = | | [Nm] |
| Lastdrehzahl | $n_L$ = | | [r/min] |
| Kurzzeitiges Maximalmoment (Not-Aus, Schnellstopp, gelegentlicher Schweranlauf) | $M_{L,max}$ = | | [Nm] |
| Laufzeit bei Maximalmoment | $t_L$ = | | [%] |

| Getriebe- und Servomotorausführung bestimmen | |
|---|---|
| Getriebeart<br>(GST, GFL, GKR, GKS, GSS, GPA) | |
| Einbaulage<br>(A, B, C, D, E, F) | |
| Abtriebseitige Ausführungen<br>(Wellenausführung: Hohlwelle, Vollwelle ...) | |
| Ausführung Antrieb<br>(**A** asynchron / **S** synchron) | |
| Kühlungsart<br>(**S00** ohne Lüfter / **F10** mit Fremdlüfter) | |

→ 14 - Allgemeines - Produktschlüssel

| Getriebegröße anhand der Kräfte bestimmen | | |
|---|---|---|
| Bestimmung der vorhandenen Axial- und Radialkräfte auf der Getriebewelle | | |
| | **Berechnung** | **Überprüfung** |
| Radialkraftbeiwert des Übertragungselementes | $f_z$ = | |
| Radialkraft | $Fr = 2000 \cdot \frac{M_{L,max} \cdot f_z}{d_w}$ | $Fr \le Fr_{zul} = \min\left(f_w \cdot f_\alpha \cdot Fr_{Tab}; f_w \cdot Fr_{max}\right)$ |
| Axialkraft | | $Fa \le Fa_{zul} = Fa_{Tab}$ , $Fr = 0$ |

→ 52 - $f_z$

→ Zulässige Radial- und Axialkräfte G□□ [N]
$Fr_{Tab}$, $Fa_{Tab}$, $f_w$, $f_\alpha$

| Drehzahlkorrekturfaktoren bestimmen | |
|---|---|
| Umgebungstemperatur, Aufstellungshöhe | $k_{n1}$ = |
| Einbaulage | $k_{n2}$ = |
| mittlere Drehzahlausnutzung des Getriebemotors (in % von $n_L$) und tägliche Betriebsdauer | $k_{n3}$ = |

→ 51 - $kn_1$, $kn_2$, $kn_3$

| Drehzahlkorrekturfaktoren mittlere Drehzahl $k_m$ | | | | | |
|---|---|---|---|---|---|
| **Betriebsart S2** | | **Betriebsart S3** | | **Betriebsart S6** | |
| **ED** [min] | $k_m$ | **ED** [%] | $k_m$ | **ED** [%] | $k_m$ |
| 10 | 0.16 | 15 | 0.15 | 15 | 1.00 |
| 30 | 0.50 | 25 | 0.25 | 25 | |
| 60 | 1.00 | 40 | 0.40 | 40 | |
| 90 | | 60 | 0.60 | 60 | |

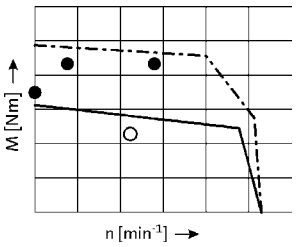
$k_m$ =

$$k_n = \frac{k_{n1} \cdot k_{n2} \cdot k_{n3}}{k_m}$$




| Überlastfaktor $k_L$ (Richtwerte) in Abhängigkeit der Anwendung / Kinematik festlegen | | | | | |
|---|---|---|---|---|---|
| **Betriebsart S2** | | **Betriebsart S3** | | **Betriebsart S6** | |
| **ED** [min] | $k_L$ | **ED** [%] | $k_L$ | **ED** [%] | $k_L$ |
| 10 | 1.4-1.5 | 15 | 1.4-1.5 | 15 | 1.5-1.6 |
| 30 | 1.15-1.2 | 25 | 1.3-1.4 | 25 | 1.4-1.5 |
| 60 | 1.07-1.1 | 40 | 1.15-1.2 | 40 | 1.3-1.4 |
| 90 | 1.0-1.05 | 60 | 1.05-1.1 | 60 | 1.15-1.2 |

$k_L$ =

| **Servo-Getriebemotor-Umrichter-Kombination auswählen und überprüfen** | | | |
|---|---|---|---|
| Im Sinne einer hohen Lebenserwartung empfiehlt Lenze, bei den Betriebsart S1 und S6 Motoren mit niedriger Bemessungsdrehzahl einzusetzen. | | | |
| | **Überprüfung** | **Auswahl** | |
| Abtriebsdrehmoment | $M_2 \geq \frac{M_L}{k_L}$ | $M_2$ = | [Nm] |
| Abtriebsdrehzahl (Empfehlung) | $n_{2,th} \geq \frac{n_L}{k_n}$ | $n_{2,th}$ = | [r/min] |
| Abtriebsdrehzahl | $n_{2,Eck} \geq n_L$ | $n_{2,Eck}$ = | |
| Wechsellasteinfluss: keine Wechsellast | $M_{2,GN} \geq M_L$ | $M_{2,GN}$ = | [Nm] |
| Wechsellasteinfluss: bei Wechsellast | $M_{2,GN} \geq M_L \cdot 1.4$ | | |
| Übersetzung | | i = | |
| Belastbarkeit des Getriebemotors | | c = | |
| Getriebewirkungsgrad | $\eta_G = \eta_{c=1} - (c-1) \cdot 0.01$ | $\eta_G$ = | |
| Kurzzeitiges Maximalmoment | $M_{2,max} = M_{2,GN} \cdot 1.5 \geq M_{L,max}$ | $M_{2,max}$ = | [Nm] |
| Thermisch wirksamer Betriebspunkt (○) unterhalb der S1-Drehmomentkennlinie des Servomotors |  | $\left(\frac{i \cdot k_m \cdot n_L}{k_{n3}} \;,\; \frac{M_L}{k_L \cdot i \cdot \eta_G}\right)$ | |
| Alle Betriebspunkte (●) unterhalb der Maximaldrehmomentkennlinie der Servomotor-Umrichter-Kombination, dabei $M_{L,max}$ berücksichtigen | | $\left(i \cdot n_L \;,\; \frac{M_L}{i \cdot \eta_G}\right)$ | |



→ Auswahltabellen G□□ [Nm]
$M_2$, $M_{2,GN}$, $n_{2,th}$, $n_{2,Eck}$, i, c
→ Katalog Servomotoren
Drehmomentkennlinien

→ 50 - Motoren für die Betriebsart S1 und S6
→ 53 - $\eta_{c=1}$

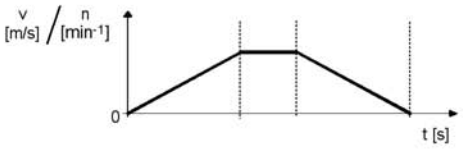
| Bestimmung der erforderlichen Getriebebelastbarkeit | | |
|---|---|---|
| Intensität berechnen | ohne Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2}$<br>bei Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2} \cdot 1.4$ | $k_I$ = |
| Bei Laufzeit $t_L$ > 10 %:<br>Intensität $k_I$ aus Berechnung berücksichtigen<br>Bei Laufzeit $t_L \leq 10$ %:<br>Belastungsfaktor k aus Diagramm berücksichtigen | | k = |
| erforderliche Belastbarkeit | $t_L > 10\% \rightarrow c \geq k_I$<br>$t_L \leq 10\% \rightarrow c \geq k$ | c = |

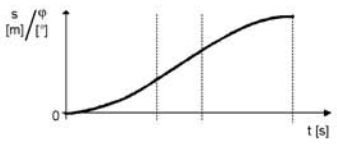
→ 52 - k

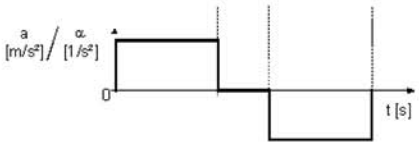


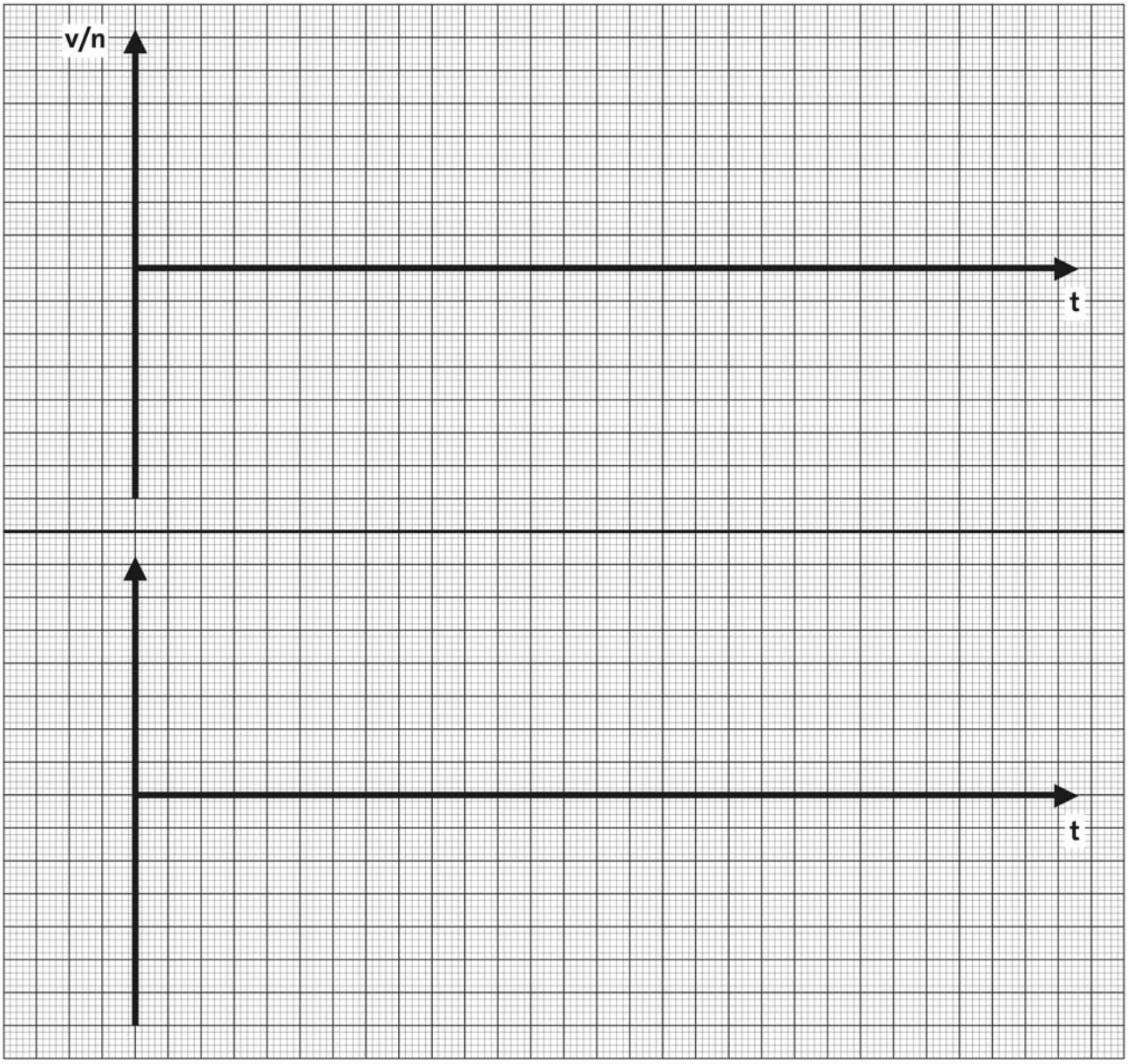

**Auslegung Servo-Getriebemotoren mit Drehzahlprofilen,
Zykluszeit / Lastspieldauer ≤ 1 min**

Die Profile, wie unten beispielhaft dargestellt, müssen festgelegt werden.
Eine kleine Skizze der zu realisierenden Bewegung kann bei den folgenden Berechnungen helfen.



| Erforderliche Eingangsgrößen | | | |
|---|---|---|---|
| Betriebsdauer / Tag | BD = | | [h] |
| mittlere Drehzahlausnutzung des Getriebemotors bezogen auf die Lastdrehzahl $n_L$ | | | [%] |
| Umgebungstemperatur | $T_u$ = | | [°C] |
| Aufstellungshöhe über NN | H = | | [m] |
| Radialkraft | Fr = | | [N] |
| Axialkraft | Fa = | | [N] |
| Übertragungselement am Getriebe (Zahnräder, Kettenräder ...) | | | |
| Wirkdurchmesser des Übertragungselements | $d_w$ = | | [mm] |
| Kurzzeitiges Maximalmoment (Not-Aus, Schnellstopp, gelegentlicher Schweranlauf) | $M_{L,max}$ = | | [Nm] |
| Laufzeit bei Maximalmoment | $t_L$ = | | [%] |

| Zeitverlauf der Belastung für die einzelnen Zeitabschnitte z | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Gesamtzeit** | **Einzelne Zeit-abschnitte** | **Lastdrehzahl** | **Lastdrehzahl-änderung** | **Stationäres Lastmoment** | **Drehmoment** | **Beschleuni-gungsmoment** | **Massenträg-heitsmoment** |
| **t** [s] | $\Delta t_z$ [s] | $n_{L,z}$ [r/min] | $\Delta n_{L,z}$ [r/min] | $M_{L,z}$ [Nm] | $M_z$ [Nm] | $M_{s,z}$ [Nm] | $J_L$ [kgm²] |
| | | | | | | | |
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| | | | |
|---|---|---|---|
| Lastspieldauer | $T = \sum \Delta t_z$ | T = | [s] |

| Berechnung der Prozessbedarfswerte | | | |
|---|---|---|---|
| Drehmoment pro Zeitabschnitt | $M_z = M_{L,z} + J_L \cdot \frac{2\pi \cdot \Delta n_{L,z}}{60 \cdot \Delta t_z} = M_{L,z} + 0.105 \cdot \frac{\Delta n_{L,z}}{\Delta t_z} \cdot J_L$ | | |
| Maximaldrehmoment vom Profil | $M_{P,max} = \max(M_z)$ | $M_{P,max}$ = | [Nm] |
| Effektivmoment | $M_{eff} = \sqrt{\frac{1}{T}\sum_z M_z^2 \cdot \Delta t_z}, T \le 1min$ | $M_{eff}$ = | [Nm] |
| mittlere Drehzahl | $n_m = \overline{\lvert n_{L,z} \rvert} = \frac{1}{T}\sum_z \lvert n_{L,z} \rvert \cdot \Delta t_z$ | $n_m$ = | [r/min] |
| Maximaldrehzahl | $n_{max} = \max(n_{L,z})$ | $n_{max}$ = | [r/min] |




| Getriebe- und Servomotorausführung bestimmen | |
|---|---|
| Getriebeart<br>(GST, GFL, GKR, GKS, GSS, GPA) | |
| Einbaulage<br>(A, B, C, D, E, F) | |
| Abtriebseitige Ausführungen<br>(Wellenausführung: Hohlwelle, Vollwelle ...) | |
| Ausführung Antrieb<br>(**A** asynchron / **S** synchron) | |
| Kühlungsart<br>(**S00** ohne Lüfter / **F10** mit Fremdlüfter) | |

→ 14 - Allgemeines - Produktschlüssel

| Getriebegröße anhand der Kräfte bestimmen | | |
|---|---|---|
| Bestimmung der vorhandenen Axial- und Radialkräfte auf der Getriebewelle | | |
| | **Berechnung** | **Überprüfung** |
| Radialkraftbeiwert des Übertragungselementes | $f_z =$ | |
| Radialkraft | $Fr = 2000 \cdot \frac{M_{L,max} \cdot f_z}{d_w}$ | $Fr \le Fr_{zul} = \min\left(f_w \cdot f_\alpha \cdot Fr_{Tab}; f_w \cdot Fr_{max}\right)$ |
| Axialkraft | | $Fa \le Fa_{zul} = Fa_{Tab}$ , $Fr = 0$ |

→ 52 - $f_z$

→ Zulässige Radial- und Axialkräfte G□□ [N]
$Fr_{Tab}$, $Fa_{Tab}$, $f_w$, $f_\alpha$

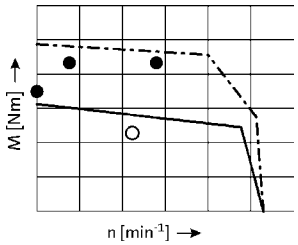
| Drehzahlkorrekturfaktoren bestimmen | |
|---|---|
| Umgebungstemperatur, Aufstellungshöhe | $k_{n1} =$ |
| Einbaulage | $k_{n2} =$ |
| mittlere Drehzahlausnutzung des Getriebemotors (in % von $n_L$) und tägliche Betriebsdauer | $k_{n3} =$ |
| | $k_n = k_{n1} \cdot k_{n2} \cdot k_{n3}$ |

→ 51 - $kn_1$, $kn_2$, $kn_3$

| Servo-Getriebemotor-Umrichter-Kombination auswählen und überprüfen | | | |
|---|---|---|---|
| | **Überprüfung** | **Vorauswahl** | |
| Abtriebsdrehmoment | $M_2 > M_{eff}$ | $M_2$ = | [Nm] |
| Abtriebsdrehzahl (Empfehlung) | $n_{2,th} \geq \frac{n_m}{k_n}$ | $n_{2,th}$ = | [r/min] |
| Abtriebsdrehzahl | $n_{2,Eck} \geq n_L$ | $n_{2,Eck}$ = | |
| Maximaldrehzahl | $n_{1,max} \geq n_{max} \cdot i$ | $n_{1,max}$ = | |
| Wechsellasteinfluss: keine Wechsellast | $M_{2,GN} \geq M_{P,max}$ | $M_{2,GN}$ = | [Nm] |
| Wechsellasteinfluss: bei Wechsellast | $M_{2,GN} \geq M_{P,max} \cdot 1{,}4$ | | |
| Belastbarkeit des Getriebemotors | | c = | |
| Getriebewirkungsgrad | $\eta_G = \eta_{c=1} - (c-1) \cdot 0.01$ | $\eta_G$ = | |
| Übersetzung | $i \approx \sqrt{\frac{J_L}{J_G + J_M + J_B}}$<br>(Optimum $k_J = 1$) | i = | |
| Lastabstimmungsfaktor<br>(für optimale Dynamik / Regeleigenschaften) | Forderung $k_J$ = 0.5 ... 10<br>Optimum $k_J$ = 1 | $k_J = \frac{J_L}{i^2 \cdot (J_G + J_M + J_B)}$ | |

→ Auswahltabellen G□□ [Nm]
$M_2$, $M_{2,GN}$, $n_{2,th}$, $n_{2,Eck}$, i, c, $J_G$, $J_M$
→ Katalog Servomotoren
$J_B$
→ 50 - $n_{1,max}$
→ 53 - $\eta_{c=1}$




| **Überprüfung der Motordrehmomente** | | | |
|---|---|---|---|
| Berücksichtigung der Massenträgheit von Getriebe, Motor und Bremse | | | |
| Beschleunigungsmoment | $M_{S,z} = M_z + \left(J_{GM} + J_B\right) \cdot \frac{2\pi \cdot \Delta n_{L,z}}{60 \cdot \Delta t_z} \cdot i^2$ | $M_{s,z}$ = | [Nm] |
| Effektivmoment | $M_{S,eff} = \sqrt{\frac{1}{T}\sum_z M_{S,z}^2 \cdot \Delta t_z}$ | $M_{s,eff}$ = | |
| Thermisch wirksamer Betriebspunkt (○) unterhalb der S1-Drehmomentkennlinie des Servomotors |   | $\left(\frac{i \cdot n_m}{k_{n3}} \;,\; \frac{M_{S,eff}}{i \cdot \eta_G}\right)$ | |
| Alle Betriebspunkte (●) unterhalb der Maximaldrehmomentkennlinie der Servomotor-Umrichter-Kombination | | $\left(i \cdot n_{L,z} \;,\; \frac{M_{S,z}}{i \cdot \eta_G}\right)$ | |

→ Katalog Servomotoren
Drehmomentkennlinien

| **Bestimmung der erforderlichen Getriebebelastbarkeit** | | |
|---|---|---|
| Intensität berechnen | ohne Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2}$<br>bei Wechsellast<br>$k_I = \frac{M_{L,max}}{M_2} \cdot 1.4$ | $k_I$ = |
| Bei Laufzeit $t_L$ > 10 %:<br>Intensität $k_I$ aus Berechnung berücksichtigen<br>Bei Laufzeit $t_L \leq$ 10 %:<br>Belastungsfaktor k aus Diagramm berücksichtigen | | k = |
| erforderliche Belastbarkeit | $t_L > 10\% \rightarrow c \geq k_I$<br>$t_L \leq 10\% \rightarrow c \geq k$ | c = |

→ 52 - k

## Maximale Getriebe-Eingangsdrehzahlen

► Diese dürfen auch kurzzeitig nicht überschritten werden.

| Motortyp | Eingangsdrehzahlen | Motortyp | Eingangsdrehzahlen |
|---|---|---|---|
| | $n_{1,max}$ [r/min] | | $n_{1,max}$ [r/min] |
| **MCA10...** | 5000 | **MCS06...** | 5000 |
| **MCA13...** | | **MCS09...** | |
| **MCA14...** | | **MCS12...** | |
| **MCA17...** | | **MCS14...** | |
| **MCA19...** | 4000 | **MCS19...** | 4000 |
| **MCA21...** | | | |

## Empfohlene Motoren für die Betriebsarten S1 und S6

► Bei den Betriebsarten S1 und S6 dreht der Motor mit konstanter hoher Drehzahl. Mit Rücksicht auf die Lebensdauer und Ölerwärmung kommen vorrangig Motoren mit kleinen Nenndrehzahlen in Frage.

| Motortyp | Motortyp |
|---|---|
| MCA10I40 | MCS06C41 |
| MCA13I41 | MCS06F41 |
| MCA13I34 | MCS06I41 |
| MCA14L20 | MCS09D41 |
| MCA14L16 | MCS09F38 |
| MCA17N23 | MCS09H41 |
| MCA17N17 | MCS09L41 |
| MCA19S23 | MCS12D20 |
| MCA19S17 | MCS12H15 |
| MCA21X25 | MCS12L20 |
| MCA21X17 | MCS14D15 |
| - | MCS14H15 |
| - | MCS14L15 |
| - | MCS14P14 |
| - | MCS19F14 |
| - | MCS19J14 |
| - | MCS19P14 |




## Umgebungstemperatur und Aufstellhöhe $k_{n1}$

| Umgebungstemperatur | Aufstellhöhe H [m] über NN | | | |
|---|---|---|---|---|
| | < 1000 | < 2000 | < 3000 | < 4000 |
| $T_u$ [°C] | $k_{n1}$ | $k_{n1}$ | $k_{n1}$ | $k_{n1}$ |
| ≤ 20 | 1.15 | 1.04 | 0.92 | 0.81 |
| 30 | 1.00 | 0.90 | 0.80 | 0.70 |
| 40 | 0.80 | 0.72 | 0.64 | 0.56 |
| 50 | 0.60 | 0.54 | 0.48 | 0.42 |
| 60 | 0.40 | 0.36 | 0.32 | 0.28 |

## Einbaulagen $k_{n2}$

| | Einbaulage | | | | | |
|---|---|---|---|---|---|---|
| Getriebetyp | A | B | C | D | E | F |
| | $k_{n2}$ | $k_{n2}$ | $k_{n2}$ | $k_{n2}$ | $k_{n2}$ | $k_{n2}$ |
| GST | 1.00 | 0.80 | 0.80 | 0.70 [1)] | 1.00 | 1.00 |
| GFL | 1.00 | 0.80 | 0.85 | 0.70 [1)] | 0.90 | 0.80 |
| GKR | 1.00 | 0.90 | 0.80 | 0.80 [1)] | 0.95 | 0.95 |
| GKS | 1.00 | 0.80 | 0.80 | 0.70 [1)] | 0.80 | 0.80 |
| GSS | 1.00 | 0.90 | 0.80 | 0.80 [1)] | 0.95 | 0.95 |
| GPA | 1.00 | - | 0.80 | 0.70 [1)] | - | - |

[1)] Die mittlere Antriebsdrehzahl $n_1$ sollte 1500 r/min nicht überschreiten.

## Tägliche Betriebsdauer und mittlere Drehzahlausnutzung des Getriebemotors $k_{n3}$

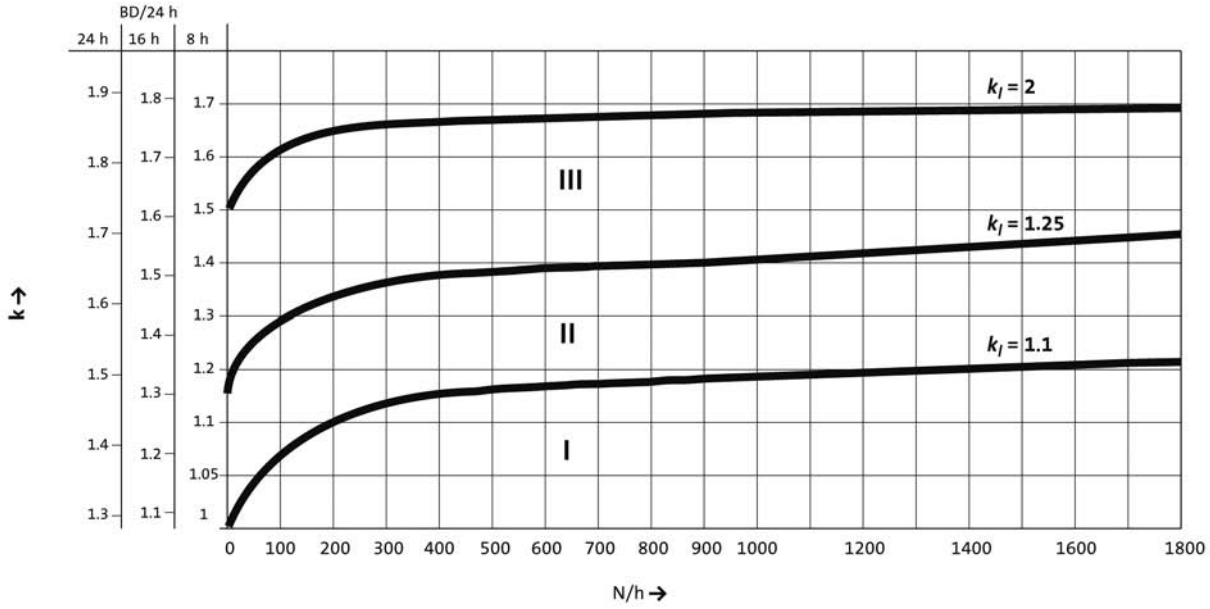
| Tägliche Betriebsdauer | Mittlere Drehzahlausnutzung des Getriebemotors bezogen auf Lastdrehzahl $n_L$ | | | | |
|---|---|---|---|---|---|
| | 100 % | 80 % | 60 % | 50 % | 25 % |
| [h] | $k_{n3}$ | $k_{n3}$ | $k_{n3}$ | $k_{n3}$ | $k_{n3}$ |
| 1.0 | 1.29 | 1.33 | 1.38 | 1.42 | 1.55 |
| 2.0 | 1.15 | 1.20 | 1.25 | 1.29 | 1.42 |
| 3.0 | 1.08 | 1.12 | 1.17 | 1.21 | 1.34 |
| 4.0 | 1.02 | 1.06 | 1.12 | 1.15 | 1.29 |
| 5.5 | 0.96 | 1.00 | 1.06 | 1.09 | 1.22 |
| 8.0 | 0.89 | 0.93 | 0.99 | 1.02 | 1.15 |
| 12.0 | 0.81 | 0.85 | 0.91 | 0.94 | 1.08 |
| 16.0 | 0.76 | 0.80 | 0.85 | 0.89 | 1.02 |
| 22.0 | 0.71 | 0.76 | 0.81 | 0.85 | 0.98 |
| 24.0 | 0.68 | 0.72 | 0.78 | 0.81 | 0.94 |

## Radialkraftbeiwerte der Übertragungselemente

| Übertragungselement | Radialkraftbeiwert |
|---|---|
| | $f_z$ |
| Zahnräder | 1.12 |
| Kettenräder | 1.25 ... 1.4 |
| Zahnriemenscheiben | 1.5 |
| Schmalkeilriemen je nach Vorspannung | 1.5 ... 2.0 |

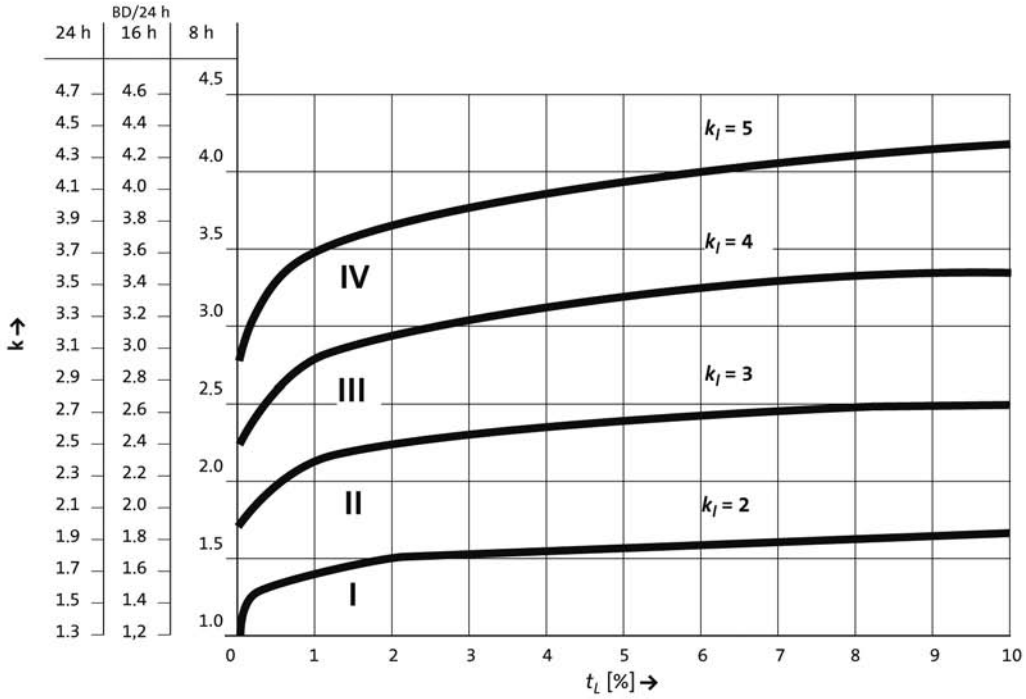
## Betriebsfaktoren
## GPA

**Betriebsfaktor k der Maschine aus Diagramm berücksichtigen.
Interpolation zwischen den Kurven ist zulässig.**



## Betriebsfaktoren
## GST, GFL, GKR, GKS, GSS

**Betriebsfaktor k der Maschine aus Diagramm berücksichtigen.
Interpolation zwischen den Kurven ist zulässig.**




## Wirkungsgrade

| | Stufenzahl | | | |
|---|---|---|---|---|
| **Getriebetyp** | **1** | **2** | **3** | **4** |
| | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| **GST** | 0.98 | 0.97 | 0.95 | |
| **GFL** | | 0.97 | 0.95 | |
| **GKR** | | 0.95 | | |
| **GKS** | | | 0.95 | 0.93 |
| **GPA** | 0.97 | 0.95 | | |

Der Anlaufwirkungsgrad $\eta_A$ eines Stirnrad-Schneckengetriebes ist während des Anfahrens kleiner als der Betriebswirkungsgrad bei Nenndrehzahl.

**Beim Anfahren unter Last ist der Anlaufwirkungsgrad $\eta_A$ zu berücksichtigen.**

| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS04-2 | 5.639 | 0.71 | 0.78 | 0.79 | 0.83 | 0.86 | 0.88 | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.89 |
| | 7.733 | | | | | | | | | | | | | | | |
| | 9.042 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | - |
| | 9.897 | 0.71 | 0.78 | 0.79 | 0.83 | 0.86 | 0.88 | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.89 |
| | 10.827 | | | | | | | | | | | | | | | |
| | 12.400 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | - |
| | 13.810 | 0.71 | 0.78 | 0.79 | 0.83 | 0.86 | 0.88 | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.89 |
| | 15.869 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | |
| | 17.360 | | | | | | | | | | | | | | | |
| | 20.417 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | - | - | |
| | 22.143 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | |
| | 24.800 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | - | - | |
| | 27.125 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | |
| | 31.738 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | - | - | |
| | 34.100 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | |
| | 39.200 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | - | - | |
| | 43.917 | 0.67 | 0.74 | 0.76 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | |
| | 50.000 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |
| | 54.250 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | - |
| | 61.250 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |
| | 68.200 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | |
| | 77.000 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |
| | 87.833 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | |
| | 99.167 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | - | - | |
| | 111.318 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | |
| | 125.682 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |
| | 139.500 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | |
| | 157.500 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |
| | 183.786 | 0.56 | 0.62 | 0.72 | 0.77 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | | | |
| | 207.500 | 0.55 | 0.60 | 0.71 | 0.76 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 | | | |




| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS05-2 | 5.639 | 0.71 | 0.79 | 0.81 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 |
| | 7.733 | | | | | | | | | | | | | | | |
| | 9.042 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | - |
| | 9.897 | 0.71 | 0.79 | 0.81 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 |
| | 10.827 | | | | | | | | | | | | | | | |
| | 12.400 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | - |
| | 13.810 | 0.71 | 0.79 | 0.81 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 |
| | 15.869 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | |
| | 17.360 | | | | | | | | | | | | | | | |
| | 20.417 | 0.55 | 0.62 | 0.74 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | - | - | |
| | 22.143 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | |
| | 24.800 | 0.57 | 0.63 | 0.75 | 0.79 | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | - | - | |
| | 27.125 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | |
| | 31.738 | 0.57 | 0.63 | 0.75 | 0.79 | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | - | - | |
| | 35.306 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | |
| | 39.200 | 0.55 | 0.62 | 0.74 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | - | - | |
| | 43.917 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | |
| | 50.000 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 54.250 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | - |
| | 61.250 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 70.611 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 79.722 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 87.833 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 99.167 | 0.55 | 0.62 | 0.74 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | - | - | |
| | 113.667 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 128.333 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 137.950 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 155.750 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 176.313 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 199.063 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |

| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS05-3 | 125.476 | 0.67 | 0.75 | 0.79 | 0.83 | 0.86 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | - |
| | 153.708 | | | | | | | | | | | | | | | |
| | 193.233 | | | | | | | | | | | | | | | |
| | 222.133 | 0.55 | 0.62 | 0.74 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | - | - | |
| | 250.952 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 283.333 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 307.417 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 347.083 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 386.467 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 436.333 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 497.722 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 561.944 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |
| | 630.803 | 0.57 | 0.63 | 0.75 | | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | | | |
| | 712.197 | 0.55 | 0.62 | 0.74 | | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | | | |




| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS06-2 | 5.833 | 0.72 | 0.80 | 0.83 | 0.87 | 0.89 | 0.90 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 |
| | 8.000 | | | | | | | | | | | | | | | |
| | 9.042 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | - |
| | 10.238 | 0.72 | 0.80 | 0.83 | 0.87 | 0.89 | 0.90 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 |
| | 11.200 | | | | | | | | | | | | | | | |
| | 12.400 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | - |
| | 14.286 | 0.72 | 0.80 | 0.83 | 0.87 | 0.89 | 0.90 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 |
| | 15.869 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| | 17.360 | | | | | | | | | | | | | | | |
| | 20.417 | 0.57 | 0.64 | 0.77 | 0.81 | 0.82 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | |
| | 22.143 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| | 24.800 | 0.57 | 0.64 | 0.77 | 0.81 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | |
| | 27.125 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| | 31.738 | 0.57 | 0.64 | 0.77 | 0.81 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | |
| | 35.306 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| | 39.200 | 0.57 | 0.64 | 0.77 | 0.81 | 0.82 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | |
| | 43.917 | 0.67 | 0.75 | 0.81 | 0.85 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| | 50.000 | 0.57 | 0.64 | 0.77 | 0.81 | 0.82 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | - |
| | 54.250 | | | | | 0.83 | | | | | | | | | | |
| | 61.250 | | | | | 0.82 | | | | | | | | | | |
| | 70.611 | | | | | 0.83 | | | | | | | | | | |
| | 79.722 | | | | | 0.82 | | | | | | | | | | |
| | 87.833 | | | | | 0.83 | | | | | | | | | | |
| | 99.167 | | | | | 0.82 | | | | | | | | | | |
| | 113.667 | | | | | 0.83 | | | | | | | | | | |
| | 128.333 | | | | | 0.82 | | | | | | | | | | |
| | 137.950 | | | | | 0.83 | | | | | | | | | | |
| | 155.750 | | | | | 0.82 | | | | | | | | | | |
| | 174.375 | | | | | 0.83 | | | | | | | | | | |
| | 196.875 | | | | | 0.82 | | | | | | | | | | |

| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS06-3 | 126.531 | 0.57 | 0.64 | 0.77 | 0.81 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | - | - | - |
| | 142.857 | | | | | 0.82 | | | | | | | | | | |
| | 155.000 | | | | | 0.83 | | | | | | | | | | |
| | 175.000 | | | | | 0.82 | | | | | | | | | | |
| | 194.857 | | | | | 0.83 | | | | | | | | | | |
| | 220.000 | | | | | 0.82 | | | | | | | | | | |
| | 238.700 | | | | | 0.83 | | | | | | | | | | |
| | 269.500 | | | | | 0.82 | | | | | | | | | | |
| | 310.689 | | | | | 0.83 | | | | | | | | | | |
| | 350.778 | | | | | 0.82 | | | | | | | | | | |
| | 386.467 | | | | | 0.83 | | | | | | | | | | |
| | 436.333 | | | | | 0.82 | | | | | | | | | | |
| | 497.722 | | | | | 0.83 | | | | | | | | | | |
| | 561.944 | | | | | 0.82 | | | | | | | | | | |
| | 630.803 | | | | | 0.83 | | | | | | | | | | |
| | 712.197 | | | | | 0.82 | | | | | | | | | | |
| | 816.333 | | | | | 0.83 | | | | | | | | | | |
| | 921.667 | | | | | 0.82 | | | | | | | | | | |
| | 1023.000 | | | | | 0.83 | | | | | | | | | | |
| | 1155.000 | | | | | 0.82 | | | | | | | | | | |
| | 1241.550 | | | | | 0.83 | | | | | | | | | | |
| | 1401.750 | | | | | 0.82 | | | | | | | | | | |
| | 1635.693 | | | | | 0.83 | | | | | | | | | | |
| | 1846.750 | | | | | 0.82 | | | | | | | | | | |




| | | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS07-2 | 5.862 | 0.74 | 0.82 | 0.86 | 0.89 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| | 8.125 | | | | | | | | | | | | | | | |
| | 9.086 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | - |
| | 10.000 | 0.74 | 0.82 | 0.86 | 0.89 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| | 11.200 | | | | | | | | | | | | | | | |
| | 12.594 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | - |
| | 14.286 | 0.74 | 0.82 | 0.86 | 0.89 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| | 15.500 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | |
| | 17.360 | | | | | | | | | | | | | | | |
| | 20.517 | 0.60 | 0.67 | 0.81 | 0.84 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | |
| | 22.143 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | |
| | 25.188 | 0.60 | 0.66 | 0.80 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | |
| | 27.125 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | |
| | 31.000 | 0.60 | 0.66 | 0.80 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | |
| | 35.306 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | |
| | 39.200 | 0.60 | 0.67 | 0.81 | 0.84 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | |
| | 43.271 | 0.69 | 0.77 | 0.84 | 0.88 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | |
| | 50.000 | 0.60 | 0.67 | 0.81 | 0.84 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | - |
| | 54.250 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 61.250 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 70.611 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 79.722 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 86.542 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 97.708 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 113.667 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 128.333 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 137.950 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 155.750 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 174.375 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 196.875 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |

| | Abtriebsdrehzahlen $n_2$ [r/min] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | i | | 1 | 5 | 10 | 16 | 25 | 32 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 800 |
| | | $\eta_A$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ | $\eta_{c=1}$ |
| GSS07-3 | 126.531 | 0.60 | 0.66 | 0.80 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | - | - | - |
| | 142.857 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 155.000 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 175.000 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 201.746 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 227.778 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 247.139 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 279.028 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 321.673 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 363.179 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 394.245 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 445.116 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 490.403 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 553.681 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 634.639 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 716.528 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 833.556 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 941.111 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 1011.633 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 1142.167 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 1227.755 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 1386.175 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |
| | 1569.181 | | 0.66 | 0.80 | | 0.85 | | | | | | | | | | |
| | 1771.656 | | 0.67 | 0.81 | | 0.84 | | | | | | | | | | |




## Allgemeine Daten

| Getriebetyp | GST | GFL | GKR | GKS | GSS |
|---|---|---|---|---|---|
| **Gehäuse**<br>Ausführung | Quaderform | | | | |
| Werkstoff | Aluminium / Grauguss | | | | |
| **Vollwelle**<br>Ausführung | mit Passfeder nach DIN 6885<br>Zentrierbohrung nach DIN 332, Blatt 2 | | | | |
| Toleranz | k6 (d ≤ 50 mm)<br>m6 (d > 50 mm) | | | | |
| Werkstoff | Vergütungsstahl C45 bzw. 42CrMo4 | | | | |
| **Hohlwelle**<br>Ausführung | - | Hohlwelle (H): mit Passfedernut<br>Hohlwelle mit Schrumpfscheibe (S): glatt | | | |
| Toleranz | - | Bohrung nach ISO H7 mit Lehrdorn gemessen | | | |
| Werkstoff | - | Vergütungsstahl C45 | | | |
| **Verzahnungsteile**<br>Ausführung | optimierte Zahnflanken und Profilgeometrie; Zahnflanken hartfein bearbeitet | | | | |
| Werkstoff | Einsatzstahl | | | | Einsatzstahl, Schneckenrad Bronze |
| **Welle-Nabe-Verbindung** | 1. Stufe / Vorstufe: kraftschlüssig<br>Abtriebsstufe (= 2., 3. oder 4. Stufe): kraft- oder formschlüssig | | | | |
| **Wellendichtringe**<br>Ausführung | mit Staublippe | | | | |
| Werkstoff | NB / FP (Viton) | | | | |
| **Lagerung**<br>Ausführung | Kugellager/ Kegelrollenlager, je nach Baugröße und Ausführung | | | | |
| **Schmierstoffe**<br>Ausführung | nach DIN 51502 | | | | |
| Füllmengen | entsprechend der Einbaulage (siehe Betriebsanleitung) | | | | |
| **Mechanischer Wirkungsgrad**<br>bei Bemessungsmoment | 0.95 ≤ η ≤ 0.98 | | 0.95 ≤ η ≤ 0.96 | 0.93 ≤ η ≤ 0.95 | 0.79 ≤ η ≤ 0.92<br>► übersetzungsabhängig<br>► bei n1 = 1400 r/min<br>► Getriebe betriebswarm und Verzahnung eingelaufen |
| **Geräusche** | unterschreiten die nach VDI-Richtlinie 2159 genannten Emissionskennwerte | | | | |
| **Schutzart**<br>Ausführung | IP55 und IP65 | | | | |

## Allgemeine Daten

| Getriebetyp | GPA |
|---|---|
| **Gehäuse**<br>Ausführung | Quaderform |
| Werkstoff | Gusseisen mit Kugelgraphit |
| **Vollwelle**<br>Ausführung | glatt ohne Passfedernut<br>Zentrierbohrung nach DIN 332, Blatt 2 |
| Toleranz | k6 |
| Werkstoff | Vergütungsstahl C45 |
| **Verzahnungsteile**<br>Ausführung | Geradverzahnung, optimierte Zahnflanken und Profilgeometrie |
| Planetenräder + Sonnenritzel | Ausführung: einsatzgehärtet und Zähne flankengeschliffen<br>Werkstoff: Einsatzstahl 17 Cr Ni Mo 6 |
| Innenverzahnung | Ausführung: gestoßen bzw. geräumt<br>Werkstoff: Sphäroguss EN-GJS-700-2 |
| Übersetzungen | Ausführung: Alle Übersetzungen sind mathematisch genau |
| **Welle-Nabe-Verbindung** | formschlüssig mit Sonder-Kerbzahnwellenprofil |
| **Wellendichtringe**<br>Ausführung | mit Staublippe |
| Werkstoff | FP (Viton) |
| **Lagerung**<br>Ausführung | Kugelager / Kegelrollenlager / Nadellager, je nach Baugröße |
| **Schmierstoffe**<br>Ausführung | nach DIN 51502 |
| Füllmengen | entsprechend der Einbaulage (siehe Betriebsanleitung) |
| **Mechanischer Wirkungsgrad**<br>bei Bemessungsmoment | $0.95 \leq \eta \leq 0.98$ |
| **Geräusche** | unterschreiten die nach VDI-Richtlinie 2159 genannten Emissionskennwerte |
| **Schutzart**<br>Ausführung | IP54 und IP65 |




## Entlüftung

**Getriebe ohne Entlüftung**
Bei folgenden Getrieben sind keine Entlüftungsmaßnahmen erforderlich:
GST03 / 04
GFL04
GPA00...05
GKR03...05
GKS04
GSS04

**Getriebe die optional mit Entlüftung ausgerüstet werden können**
Bei Einsatz dieser Getriebe kann in den meisten Fällen auf besondere Maßnahmen verzichtet werden. In Grenzfällen, z. B. bei Antriebsdrehzahlen > 2000 r/min, empfehlen wir den Einsatz von Entlüftungselementen, die optional von uns bezogen werden können.
GST05
GFL05
GKS05

**Getriebe mit Entlüftung**
Folgende Getriebe werden grundsätzlich mit Entlüftungselementen ausgeliefert:
GST06...14
GFL06...14
GKR06
GKS06...14
GSS05...07

**Sondermaßnahme in Einbaulage C (oben liegender Motor)**
Bei den Getriebegrößen G□□09...14 in dieser Einbaulage empfehlen wir grundsätzlich den Einsatz eines Ölausgleichsbehälters. Dieser kann als Option bezogen werden. Abbildungen und Maßnahmen finden Sie je nach Getriebetyp unter Entlüftung G□□ [⊗ ].
Bei hohen Übersetzungen oder niedrigen Antriebsdrehzahlen kann darauf verzichtet werden. In diesen Fällen bitten wir um Rücksprache.

## Schmierstoffe

Getriebe und Getriebemotoren von Lenze sind bei der Auslieferung betriebsfertig mit einem antriebs- und bauformspezifischen Schmierstoff befüllt. Maßgebend für die Schmierstoffmenge sind bei der Bestellung die Einbaulage und die Ausführung.

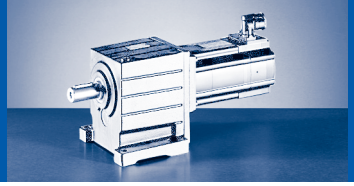
**Für Lenze-Antriebe sind die in der Schmierstofftabelle aufgeführten Schmierstoffe zugelassen.**

## Schmierstofftabelle

► Bei Umgebungstemperaturen < -20 °C bzw. > +40 °C bitten wir um Rücksprache.

| Schmierstoffe nach DIN 51517-3: CLP-ISO 12925-1: CKC/CKD | | **CLP HC 320** | **CLP HC 150** | **CLP HC 220 USDA H1** | **CLP PG 460** |
|---|---|---|---|---|---|
| GST / GFL / GKR / GKS | | ● | | ● | |
| GPA | | | ● | | |
| GSS | | | | ● | |
| Umgebungstemperatur | [°C] | -25 ... +50 | | -20 ... +40 | |
| Spezifikation | | Öl auf synthetischer Basis (synthetischer Kohlenwasserstoff / Polyalphaolefinöl) | | | Öl auf synthetischer Basis (Polyglykol) |
| Hinweis | | | | für die Lebensmittel verarbeitende Industrie. | mit anderen Ölarten nicht mischbar. |
| Wechselintervall | | 25000 Betriebstunden | | 16000 Betriebstunden | 25000 Betriebstunden |
| | | spätestens nach drei Jahren (Öltemperatur 70 ... 80 °C) | | | |
| Fuchs | | Fuchs Renolin Unisyn CLP 320 | | bremer & leguil Cassida Fluid GL 220 | |
| Klüber | | Klübersynth GEM4-320 | | Klüberoil 4 UH1-220 N | Klübersynth GH 6-460 |
| Shell | | Shell Omala Oil HD 320 | | | Shell Tivela S 460 |
| Mobil | | | Mobil SHC 629 | | |

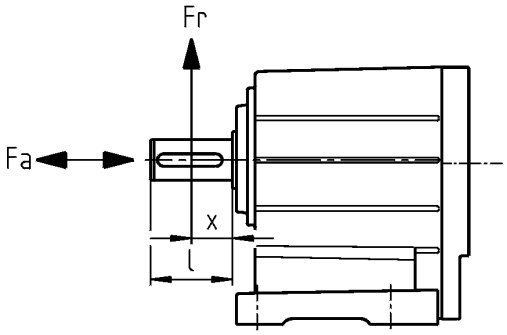
► Achtung: Beim Stirnrad-Schneckengetriebe GSS ist bei Einsatz des Schmierstoffes CLP HC 220 das Drehmoment $M_2$ auf 80 % der Katalogwerte zu reduzieren!

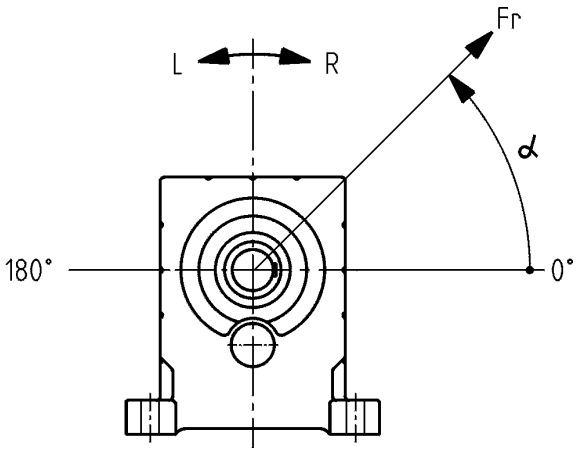


**Zulässige Radialkraft**
$Fr_{zul} = \min(f_w \times f_\alpha \times Fr_{Tab} ; f_w \times Fr_{max})$

Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung.

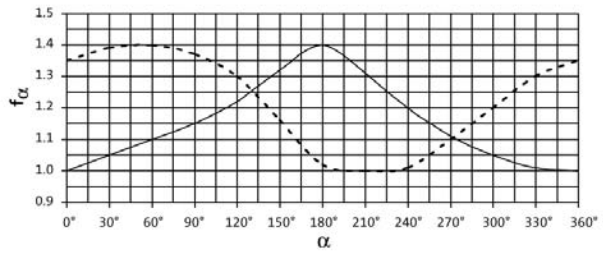
**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0



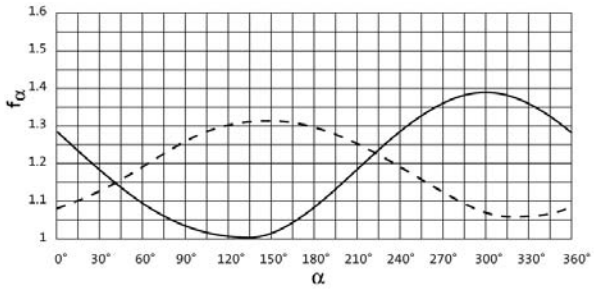




## Wirkrichtungsfaktor $f_\alpha$ an der Abtriebswelle

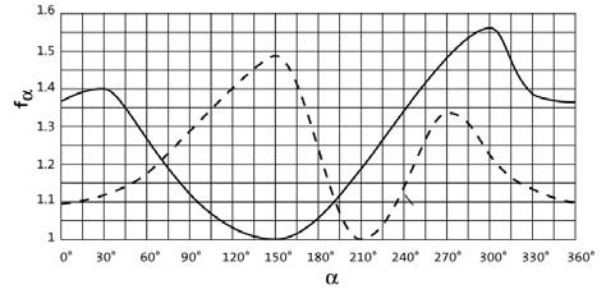
**GST03-2**



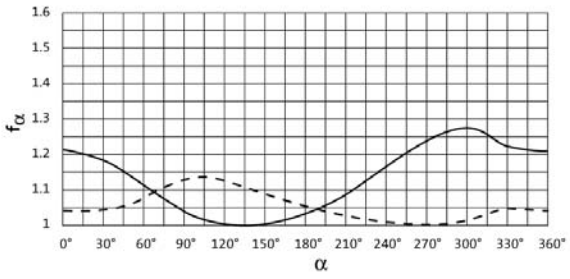

**GST04...09-1**




**GST04...09-2, 3**



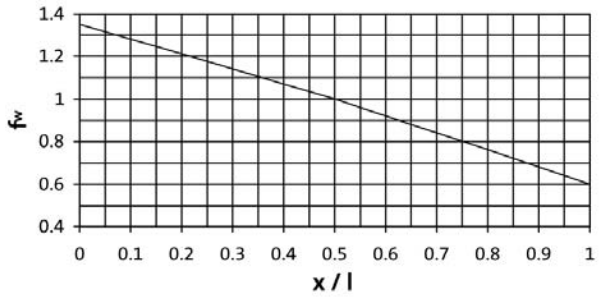
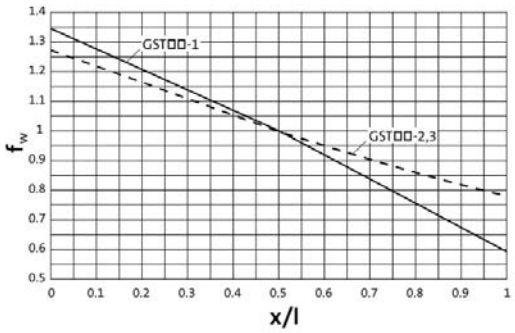

**GST11...14-2, 3**

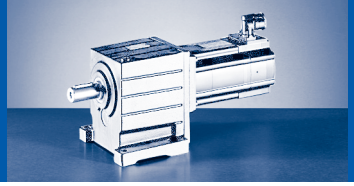



——— Drehrichtung R

— — — Drehrichtung L

## Lastangriffsbeiwert $f_w$ an der Abtriebswelle

| GST03-2 | GST04...14-1, 2, 3 |
| --- | --- |
|  |  |



## GST□□-1

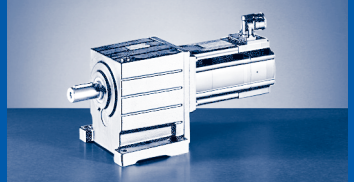
| | Vollwelle (V□□)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | GST04-1 | | GST05-1 | | GST06-1 | | GST07-1 | | GST09-1 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **2500** | 100 | 600 | 100 | 800 | 200 | 900 | 700 | 1200 | 1750 | 2500 |
| **1600** | 180 | 800 | 250 | 1100 | 600 | 1200 | 1000 | 1600 | 2200 | 3400 |
| **1000** | 440 | 1000 | 550 | 1400 | 800 | 1500 | 1200 | 2000 | 2500 | 4300 |
| **600** | 600 | 1300 | 750 | 2000 | 800 | 2000 | 1300 | 2700 | 2500 | 5700 |
| **400** | 850 | 1400 | 1400 | 2000 | 1100 | 2500 | 1900 | 3300 | 3500 | 6800 |
| **200** | 1050 | 1400 | 2000 | 2000 | 2200 | 2500 | 3000 | 3700 | 6200 | 7000 |
| **125** | 1050 | 1400 | 2300 | 2000 | 2900 | 2500 | 3900 | 3700 | 7900 | 7000 |
| **80** | 1050 | 1400 | 2300 | 2000 | 3500 | 2500 | 4700 | 3700 | 9000 | 7000 |
| **≤ 50** | 1050 | 1400 | 2300 | 2000 | 3500 | 2500 | 5300 | 3700 | 9500 | 7000 |
| **$Fr_{max}$** | 1050 | - | 2300 | - | 3500 | - | 5300 | - | 9500 | - |

## GST□□-2 / 3 mit Standardlagerung

| | Vollwelle (V□□)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GST03-2 | | GST04-2 | | GST05-2/3 | | GST06-2/3 | | GST07-2/3 | | GST09-2/3 | | GST11-2/3 | | GST14-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 100 | 300 | 730 | 600 | 1150 | 1200 | 140 | 500 | 140 | 1100 | 1500 | 1300 | 11500 | 5700 | 16600 | 9000 |
| **630** | 300 | 400 | 950 | 800 | 1500 | 1600 | 750 | 600 | 2050 | 1500 | 1950 | 1800 | 14400 | 7600 | 20700 | 12000 |
| **400** | 630 | 600 | 1250 | 1100 | 1950 | 2000 | 2350 | 850 | 3400 | 1900 | 6800 | 2300 | 17000 | 9500 | 24000 | 15000 |
| **250** | 710 | 700 | 1450 | 1300 | 2200 | 2300 | 2600 | 900 | 3800 | 2200 | 7600 | 2800 | 19000 | 10000 | 27000 | 16000 |
| **160** | 800 | 800 | 1700 | 1650 | 2600 | 2650 | 3100 | 1250 | 4500 | 2900 | 9400 | 4000 | 21000 | 11000 | 31000 | 18000 |
| **100** | 920 | 900 | 2100 | 2000 | 3000 | 3100 | 3600 | 1800 | 5400 | 3900 | 11500 | 5600 | 21000 | 14000 | 36000 | 20000 |
| **63** | 1100 | 1000 | 2500 | 2000 | 3500 | 3600 | 4300 | 2600 | 6400 | 5300 | 11500 | 8100 | 21000 | 16000 | 39000 | 20000 |
| **40** | 1400 | 1000 | 2650 | 2000 | 3800 | 3600 | 4350 | 3600 | 7600 | 7000 | 11500 | 11000 | 21000 | 16000 | 40000 | 20000 |
| **25** | 1500 | 1000 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9100 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 |
| **≤ 16** | 1500 | 1000 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9500 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 |
| **$Fr_{max}$** | 1500 | - | 2650 | - | 3900 | - | 4350 | - | 9500 | - | 11500 | - | 21000 | - | 40000 | - |

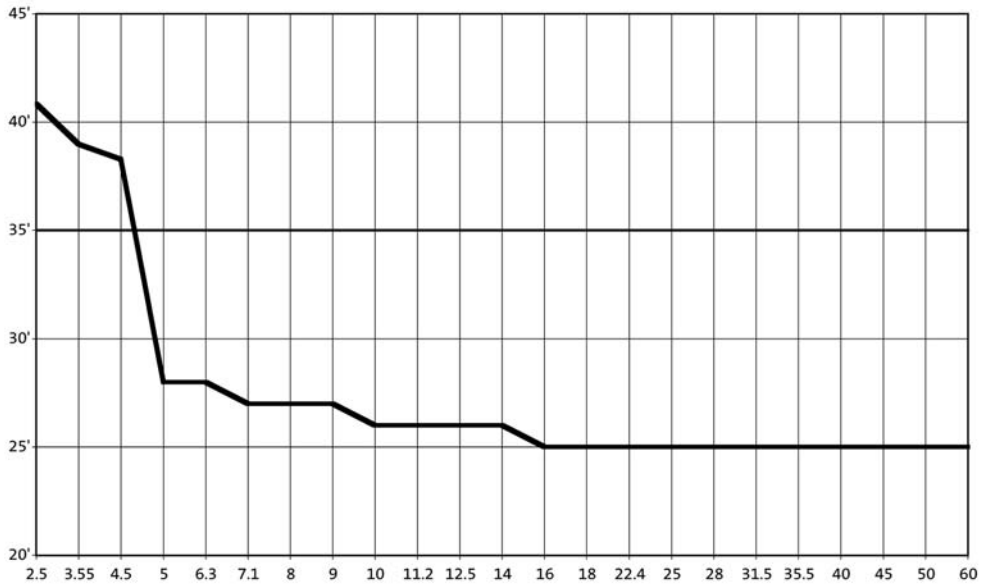
## GST□□-2 / 3 mit verstärkter Lagerung

| | Vollwelle (V□□)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | GST04-2 | | GST05-2/3 | | GST06-2/3 | | GST07-2/3 | | GST09-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 1900 | 1000 | 3350 | 2100 | 4250 | 2100 | 5650 | 3300 | 11300 | 4800 |
| **630** | 2350 | 1300 | 3950 | 2800 | 5100 | 2800 | 6850 | 4400 | 14000 | 6400 |
| **400** | 2850 | 1700 | 4900 | 3600 | 6300 | 3500 | 8500 | 5500 | 16500 | 8000 |
| **250** | 3150 | 1900 | 5400 | 3900 | 7000 | 3600 | 9500 | 6100 | 17000 | 9000 |
| **160** | 3550 | 2200 | 5400 | 4300 | 7700 | 4200 | 10500 | 7100 | 17000 | 10500 |
| **100** | 3750 | 2500 | 5400 | 4500 | 7700 | 4900 | 12500 | 8300 | 17000 | 12500 |
| **63** | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 |
| **40** | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 |
| **25** | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 |
| **≤ 16** | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 |
| **$Fr_{max}$** | 3750 | - | 5400 | - | 7700 | - | 13000 | - | 17000 | - |



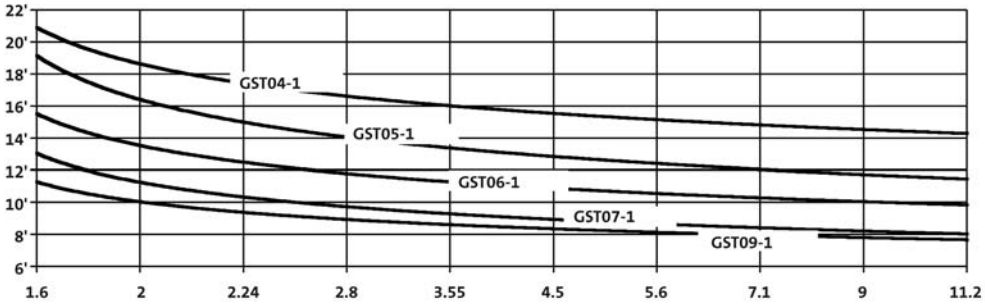
## Verdrehspiel am Abtrieb in Winkelminuten

**GST03-2**




Übersetzung

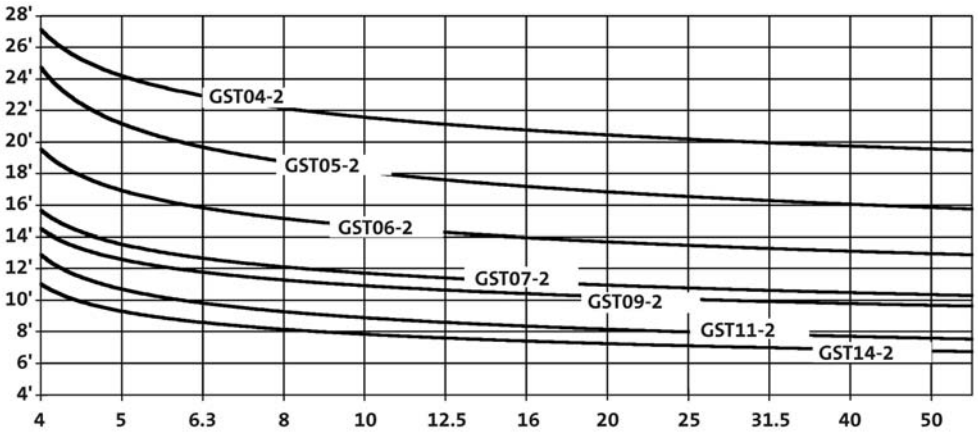
**GST04...09-1**




Übersetzung

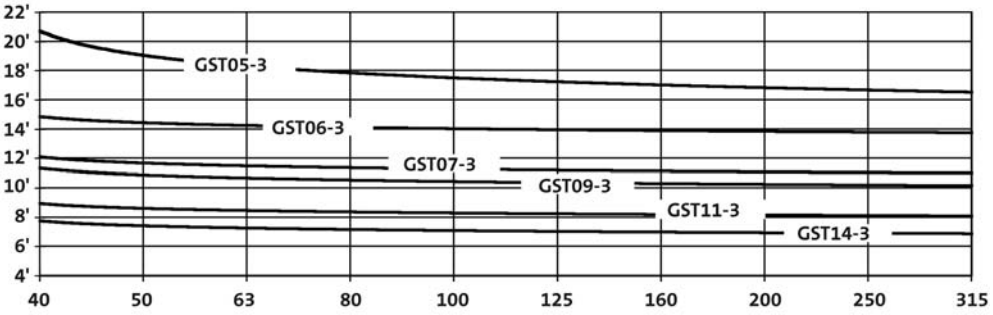
## Verdrehspiel am Abtrieb in Winkelminuten

**GST04...14-2**

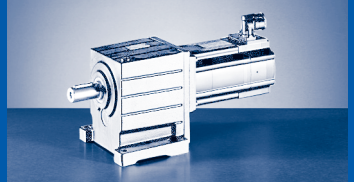



Übersetzung

**GST05...14-3**

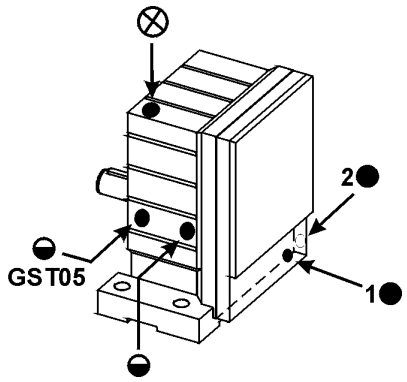
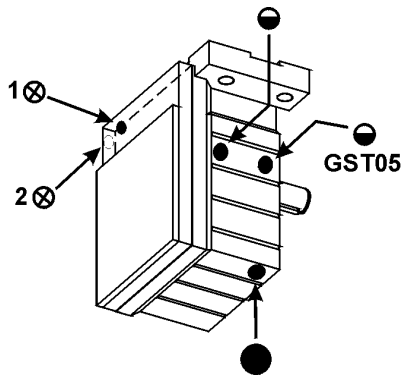
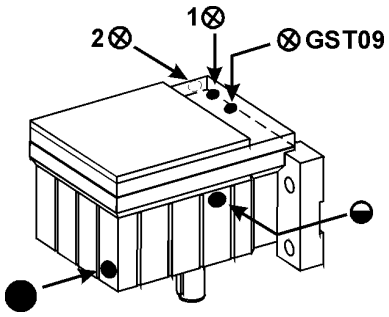


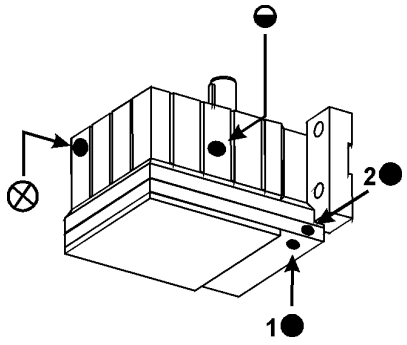
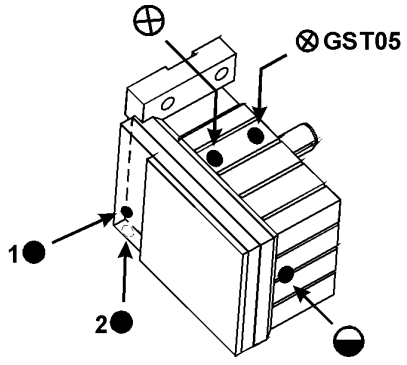
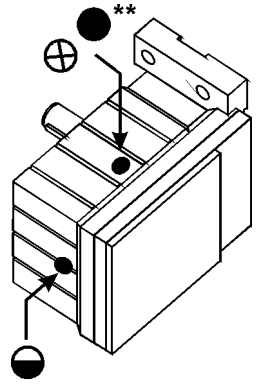

Übersetzung



## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

### GST05...09-1

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

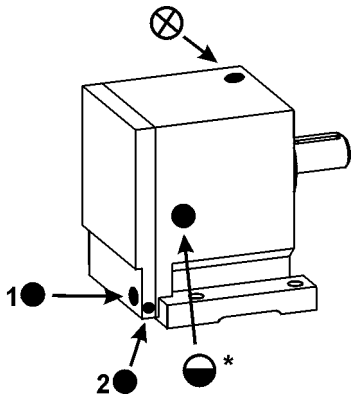
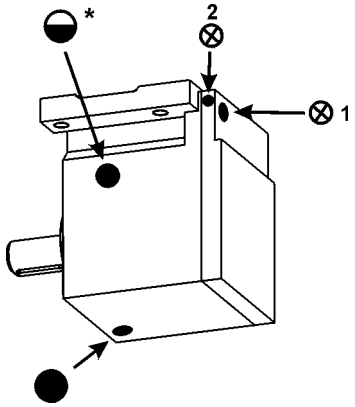
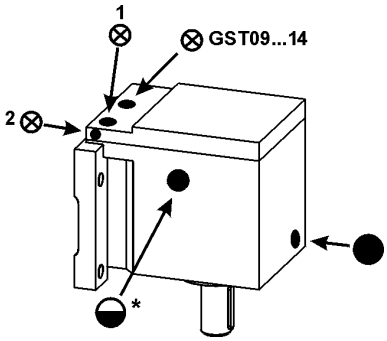
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

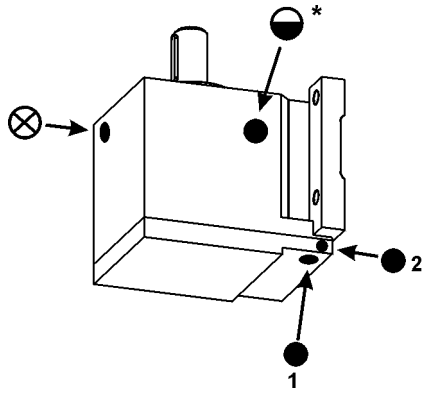
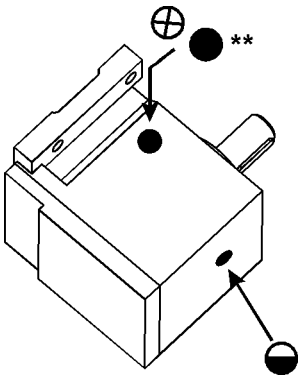
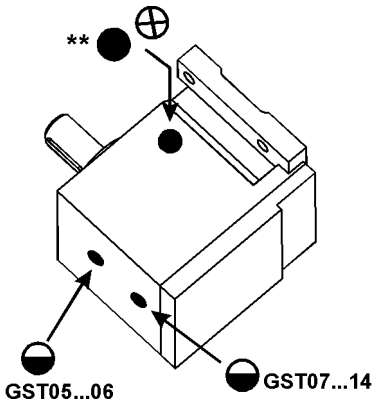
⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GST05-1A □□□ 14LC□□

## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

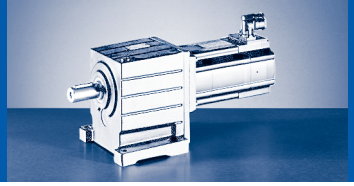
### GST05...14-2

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

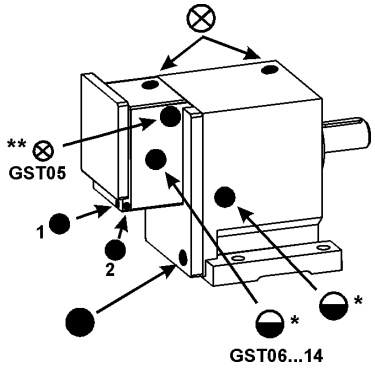
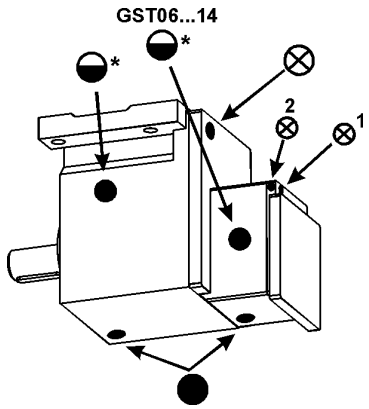
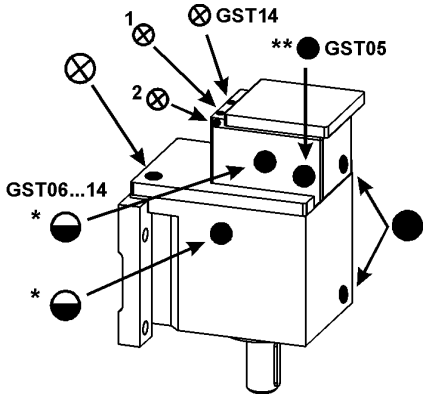
⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

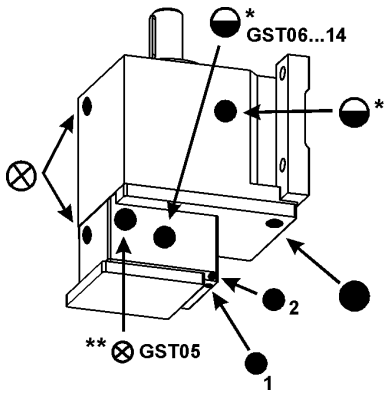
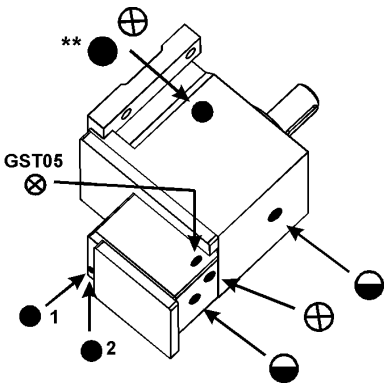
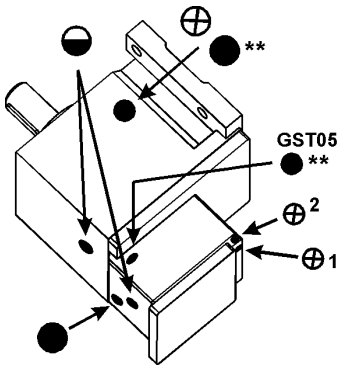
Pos.1 Standard
Pos.2 nur bei GST05-2A □□□ 14LC□□



## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

### GST05...14-3

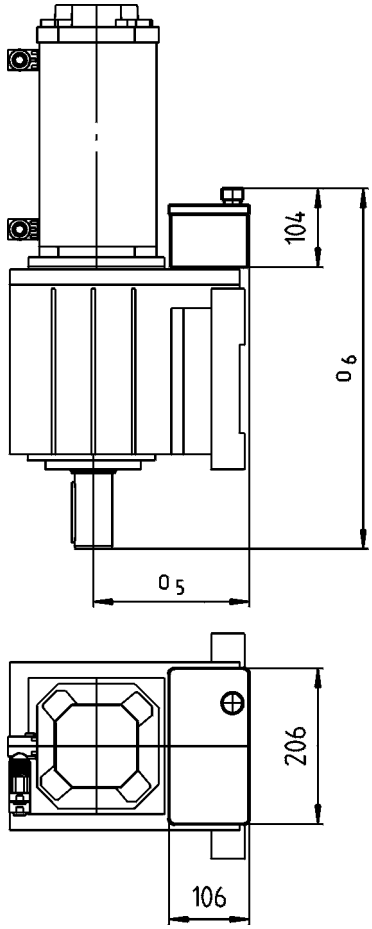
| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GST07-3A □□□ 14LC□□

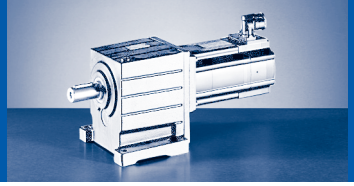
## Ausgleichsbehälter für Einbaulage C




| GST□□-2A... | | 14LC□□ [1] | 17NC□□ [1] | 19SC□□ [1] | 21XC□□ [1] |
|---|---|---|---|---|---|
| GST09... | $o_5$ | 206 | | 226 | 245 |
| | $o_6$ | 477 | | | |
| GST11... | $o_5$ | 208 | | 230 | 254 |
| | $o_6$ | 536 | | 540 | |
| GST14... | $o_5$ | | | 252 | 282 |
| | $o_6$ | | | 640 | |

| GST□□-2S... | | 12□C□□ | 14□C□□ | 19□C□□ |
|---|---|---|---|---|
| GST09... | $o_5$ | 206 | | 245 |
| | $o_6$ | 477 | | |
| GST11... | $o_5$ | 208 | | 254 |
| | $o_6$ | 536 | | 540 |
| GST14... | $o_5$ | | | 282 |
| | $o_6$ | | | 640 |

[1] Stecker- / Klemmenkastenlage 4 ist nicht zulässig.



## GST□□-1S VBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | 7 | | 8 | 10 | | 11 | 13 | | | | | | | |
| GST05... | 9 | | 10 | 12 | | 13 | 15 | | | 18 | | | 21 | |
| GST06... | 14 | | 15 | 16 | 17 | 18 | 20 | 19 | | 23 | | | 26 | |
| GST07... | | | | 26 | 27 | 28 | 30 | 29 | | 32 | | | 35 | |
| GST09... | | | | | | | | 45 | | 48 | | | 51 | |

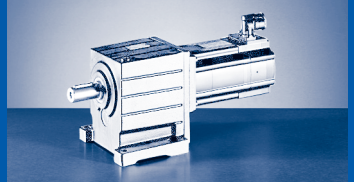
| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 25 | | 29 | | 34 | | 39 | | | | | | | |
| GST07... | 34 | | 39 | | 44 | | 49 | | 51 | | 58 | | 68 | |
| GST09... | 50 | | 55 | | 59 | | 64 | | 66 | | 73 | | 83 | |

## GST□□-1S VCR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | 6 | | 7 | 9 | 10 | 11 | 13 | | | | | | | |
| GST05... | 8 | | 9 | 11 | | 12 | 14 | | | 17 | | | 20 | |
| GST06... | 12 | 13 | | 15 | 16 | | 18 | | | 21 | | | 24 | |
| GST07... | | | | 23 | 24 | 25 | 27 | 26 | | 29 | | | 32 | |
| GST09... | | | | | | | | 40 | | 43 | | | 47 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 23 | | 28 | | 32 | | 37 | | | | | | | |
| GST07... | 31 | | 36 | | 41 | | 46 | | 48 | | 55 | | 65 | |
| GST09... | 45 | | 50 | | 55 | | 60 | | 62 | | 69 | | 79 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



# GST [kg]

## GST□□-2S VAR / VBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | 4 | 5 | 6 | | | | | | | | | | | |
| GST04... | 9 | | 10 | 11 | 12 | 13 | 15 | | | | | | | |
| GST05... | 12 | 13 | | 15 | 16 | 17 | 19 | 18 | | 22 | | | 25 | |
| GST06... | 20 | 21 | | 23 | 24 | 25 | 26 | | | 29 | | | 32 | |
| GST07... | | | | 38 | 39 | 40 | 42 | 41 | | 44 | | | 48 | |
| GST09... | | | | | | | | 69 | | 72 | | | 76 | |

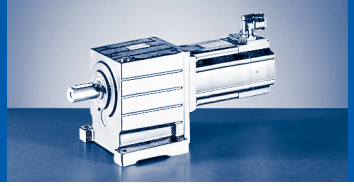
| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 31 | | 36 | | 40 | | 45 | | | | | | | |
| GST07... | 47 | | 51 | | 56 | | 61 | | 63 | | 70 | | 80 | |
| GST09... | 75 | | 79 | | 84 | | 89 | | 91 | | 98 | | 108 | |
| GST11... | 121 | | 126 | | 130 | | 135 | | 137 | | 144 | | 154 | |
| GST14... | | | | | | | | | 227 | | 234 | | 244 | |

## GST□□-2S VCR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | 4 | 5 | | | | | | | | | | | | |
| GST04... | 8 | | 9 | 11 | 12 | 13 | 14 | | | | | | | |
| GST05... | 11 | | 12 | 14 | | 15 | 17 | | | 20 | | | 23 | |
| GST06... | 18 | | 19 | 20 | 21 | 22 | 24 | 23 | | 26 | | | 29 | |
| GST07... | | | | 34 | 35 | 36 | 37 | | | 40 | | | 43 | |
| GST09... | | | | | | | | 61 | | 64 | | | 67 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 28 | | 33 | | 38 | | 42 | | | | | | | |
| GST07... | 42 | | 47 | | 52 | | 56 | | 59 | | 66 | | 76 | |
| GST09... | 66 | | 71 | | 75 | | 80 | | 82 | | 89 | | 99 | |
| GST11... | 106 | | 111 | | 115 | | 120 | | 122 | | 129 | | 139 | |
| GST14... | | | | | | | | | 199 | | 206 | | 216 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



## GST□□-3S VAR / VBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | 15 | | 16 | 18 | | 19 | 21 | | | | | | | |
| GST06... | 25 | | 26 | 28 | | 29 | 31 | | | | | | | |
| GST07... | 43 | | 44 | 45 | 46 | 47 | 49 | | | 52 | | | 55 | |
| GST09... | 75 | 76 | | 78 | 79 | 80 | 82 | 81 | | 84 | | | 87 | |
| GST11... | | | | 133 | | 134 | 136 | | | 139 | | | 142 | |
| GST14... | | | | | | | | 243 | | 246 | | | 249 | |

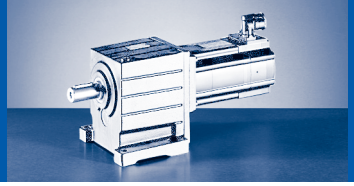
| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | 86 | | 91 | | 95 | | 100 | | | | | | | |
| GST11... | 141 | | 146 | | 150 | | 155 | | 158 | | 165 | | 175 | |
| GST14... | 248 | | 253 | | 257 | | 262 | | 264 | | 271 | | 281 | |

## GST□□-3S VCR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | 13 | | 14 | 16 | 17 | 18 | 20 | | | | | | | |
| GST06... | 22 | | 23 | 25 | 26 | 27 | 28 | | | | | | | |
| GST07... | 38 | 39 | | 41 | 42 | 43 | 45 | 44 | | 47 | | | 51 | |
| GST09... | 67 | | 68 | 69 | 70 | 71 | 73 | 72 | | 76 | | | 79 | |
| GST11... | | | | 118 | 119 | | 121 | | | 124 | | | 127 | |
| GST14... | | | | | | | | 215 | | 218 | | | 221 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | 78 | | 82 | | 87 | | 92 | | | | | | | |
| GST11... | 126 | | 131 | | 135 | | 140 | | 143 | | 150 | | 160 | |
| GST14... | 220 | | 225 | | 229 | | 234 | | 236 | | 243 | | 253 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



# GST [kg]

## GST□□-1A VBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST04... | 10 | 15 | 16 | | | | | | |
| GST05... | 14 | 18 | 20 | 24 | | 26 | | | |
| GST06... | 18 | 22 | 24 | 29 | | 30 | | 36 | |
| GST07... | 28 | 32 | 33 | 38 | | 40 | | 45 | |
| GST09... | | | | 52 | | 54 | | 60 | |

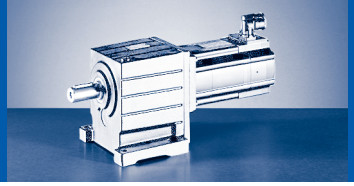
| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 39 | | | | | | | | | |
| GST07... | 48 | | 69 | | 72 | | 86 | | 89 | |
| GST09... | 63 | | 83 | | 86 | | 101 | | 104 | |

## GST□□-1A VCR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST04... | 10 | 14 | 16 | | | | | | |
| GST05... | 13 | 17 | 19 | 23 | | 25 | | | |
| GST06... | 17 | 21 | 22 | 27 | | 29 | | 35 | |
| GST07... | 25 | 29 | 30 | 35 | | 36 | | 42 | |
| GST09... | | | | 48 | | 50 | | 56 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 37 | | | | | | | | | |
| GST07... | 45 | | 66 | | 69 | | 83 | | 86 | |
| GST09... | 58 | | 78 | | 82 | | 96 | | 100 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



## GST□□-2A VAR / VBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST04... | 12 | 17 | 18 | | | | | | |
| GST05... | 18 | 22 | 23 | 27 | | 29 | | | |
| GST06... | 25 | 29 | 30 | 35 | | 37 | | 43 | |
| GST07... | 40 | 44 | 46 | 50 | | 52 | | 58 | |
| GST09... | | | | 77 | | 79 | | 85 | |
| GST11... | | | | 123 | | 125 | | 131 | |
| GST14... | | | | | | | | | |

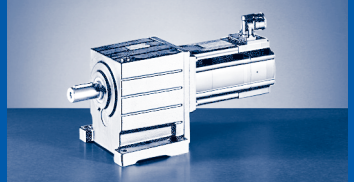
| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 45 | | | | | | | | | |
| GST07... | 60 | | 81 | | 84 | | 98 | | 101 | |
| GST09... | 87 | | 107 | | 111 | | 125 | | 129 | |
| GST11... | 133 | | 153 | | 156 | | 170 | | 173 | |
| GST14... | | | 245 | | 248 | | 259 | | 263 | |

## GST□□-2A VCR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST04... | 12 | 16 | 18 | | | | | | |
| GST05... | 16 | 20 | 22 | 26 | | 28 | | | |
| GST06... | 22 | 26 | 28 | 32 | | 34 | | 40 | |
| GST07... | 36 | 40 | 41 | 45 | | 47 | | 53 | |
| GST09... | | | | 68 | | 70 | | 76 | |
| GST11... | | | | 108 | | 110 | | 116 | |
| GST14... | | | | | | | | | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | 43 | | | | | | | | | |
| GST07... | 56 | | 77 | | 80 | | 93 | | 97 | |
| GST09... | 79 | | 99 | | 102 | | 117 | | 120 | |
| GST11... | 118 | | 138 | | 141 | | 155 | | 158 | |
| GST14... | | | 217 | | 220 | | 231 | | 235 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



# GST [kg]

## GST□□-3A VAR / VBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST05... | 18 | 23 | 25 | | | | | | |
| GST06... | 28 | 33 | 35 | | | | | | |
| GST07... | 48 | 52 | 54 | 58 | | 60 | | | |
| GST09... | 80 | 84 | 85 | 90 | | 92 | | 98 | |
| GST11... | 134 | 138 | 140 | 144 | | 146 | | 152 | |
| GST14... | | | | 250 | | 252 | | 258 | |

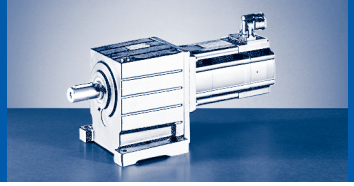
| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | 100 | | | | | | | | | |
| GST11... | 155 | | 175 | | 179 | | 192 | | 196 | |
| GST14... | 261 | | 281 | | 284 | | 299 | | 302 | |

## GST□□-3A VCR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GST05... | 17 | 21 | 23 | | | | | | |
| GST06... | 26 | 30 | 32 | | | | | | |
| GST07... | 44 | 48 | 49 | 53 | | 55 | | | |
| GST09... | 71 | 75 | 77 | 82 | | 83 | | 89 | |
| GST11... | 119 | 123 | 125 | 129 | | 131 | | 137 | |
| GST14... | | | | 222 | | 224 | | 230 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | 92 | | | | | | | | | |
| GST11... | 140 | | 160 | | 164 | | 177 | | 181 | |
| GST14... | 233 | | 253 | | 256 | | 271 | | 274 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



## Mehrgewichte Servomotoren MCS

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | | 1.5 | | | | | |
| ...P2 | 3.1 | | | | | | | | | | 4.3 | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.3 | | | | | | | | | | | | | |

## Mehrgewichte Servomotoren MCA

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | 2.4 | | 4.8 | | | | 5.0 | | | |
| ...P2/P6 | | | | | | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.7 | | 1.0 | | | | 1.1 | | | |

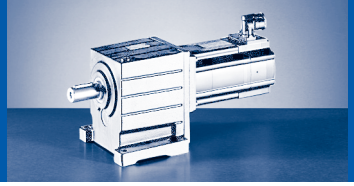
## Mehrgewichte Getriebe

| | Flansch |
|---|---|
| | VAL/VCK |
| GST03... | 0.8 |
| GST04... | 1.0 |
| GST05... | 1.5 |
| GST06... | 3.0 |
| GST07... | 4.0 |
| GST09... | 7.0 |
| GST11... | 10.5 |
| GST14... | 15.5 |

Gewichte in [kg]

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST03-2 | 2.597 | 896 | 345 |
| | 3.413 | 1280 | 375 |
| | 4.368 | 1376 | 315 |
| | 5.312 | 1344 | 253 |
| | 5.965 | 1372 | 230 |
| | 6.982 | 1920 | 275 |
| | 7.840 | 1960 | 250 |
| | 8.935 | 2064 | 231 |
| | 10.033 | 2107 | 210 |
| | 11.429 | 2640 | 231 |
| | 12.833 | 2695 | 210 |
| | 14.836 | 2448 | 165 |
| | 16.660 | 2499 | 150 |
| | 19.013 | 2928 | 154 |
| | 21.350 | 2989 | 140 |
| | 24.595 | 2976 | 121 |
| | 27.618 | 3038 | 110 |
| | 32.000 | 3168 | 99 |
| | 35.933 | 3234 | 90 |
| | 41.455 | 4560 | 110 |
| | 46.550 | 4655 | 100 |
| | 52.909 | 4656 | 88 |
| | 59.413 | 4753 | 80 |
| GST04-1 | 1.600 | 40 | 25 |
| | 2.048 | 43 | 21 |
| | 2.240 | 56 | 25 |
| | 2.857 | 60 | 21 |
| | 3.500 | 63 | 18 |
| | 4.400 | 66 | 15 |
| | 5.667 | 68 | 12 |
| | 7.182 | 79 | 11 |
| | 9.000 | 81 | 9 |
| | 11.857 | 83 | 7 |
| GST04-2 | 2.956 | 1330 | 450 |
| | 3.333 | 1400 | 420 |
| | 4.053 | 1520 | 375 |
| | 4.571 | 1600 | 350 |
| | 5.187 | 1634 | 315 |
| | 5.850 | 1720 | 294 |
| | 6.400 | 2240 | 350 |
| | 7.040 | 1760 | 250 |
| | 8.000 | 1800 | 225 |
| | 9.010 | 1892 | 210 |
| | 9.856 | 2464 | 250 |
| | 11.200 | 2520 | 225 |

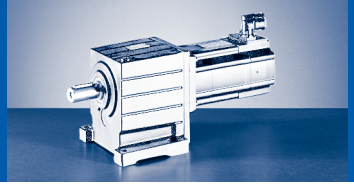


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST04-2 | 12.571 | 2640 | 210 |
| | 14.286 | 2700 | 189 |
| | 15.400 | 2772 | 180 |
| | 17.500 | 2835 | 162 |
| | 19.360 | 2904 | 150 |
| | 22.000 | 2970 | 135 |
| | 24.933 | 2992 | 120 |
| | 28.333 | 3060 | 108 |
| | 31.600 | 3476 | 110 |
| | 35.909 | 3555 | 99 |
| | 39.600 | 3564 | 90 |
| | 45.000 | 3645 | 81 |
| | 52.171 | 3652 | 70 |
| | 59.286 | 3735 | 63 |
| GST05-1 | 1.600 | 40 | 25 |
| | 2.048 | 43 | 21 |
| | 2.240 | 56 | 25 |
| | 2.857 | 60 | 21 |
| | 3.500 | 63 | 18 |
| | 4.556 | 82 | |
| | 5.667 | 68 | 12 |
| | 7.333 | 88 | |
| | 8.900 | 89 | 10 |
| | 11.375 | 91 | 8 |
| GST05-2 | 2.956 | 1330 | 450 |
| | 3.333 | 1400 | 420 |
| | 4.053 | 1520 | 375 |
| | 4.571 | 1600 | 350 |
| | 5.187 | 1634 | 315 |
| | 5.850 | 1720 | 294 |
| | 6.400 | 2240 | 350 |
| | 7.238 | 2280 | 315 |
| | 8.163 | 2400 | 294 |
| | 9.010 | 1892 | 210 |
| | 10.000 | 2520 | 252 |
| | 11.200 | | 225 |
| | 13.016 | 3280 | 252 |
| | 14.356 | 2584 | 180 |
| | 16.190 | 2720 | 168 |
| | 17.500 | 2835 | 162 |
| | 20.044 | 3608 | 180 |
| | 22.778 | 3690 | 162 |
| | 24.933 | 2992 | 120 |
| | 28.333 | 3060 | 108 |
| | 32.267 | 3872 | 120 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST05-2 | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 50.050 | 4004 | 80 |
| | 56.875 | 4095 | 72 |
| GST05-3 | 36.267 | 152320 | 4200 |
| | 46.259 | 163200 | 3528 |
| | 56.667 | 171360 | 3024 |
| | 63.467 | | 2700 |
| | 71.238 | 179520 | 2520 |
| | 80.952 | 183600 | 2268 |
| | 91.746 | 184960 | 2016 |
| | 99.167 | 192780 | 1944 |
| | 116.277 | 214880 | 1848 |
| | 124.667 | 201960 | 1620 |
| | 145.714 | 220320 | 1512 |
| | 160.556 | 208080 | 1296 |
| | 179.067 | 236368 | 1320 |
| | 191.973 | 225760 | 1176 |
| | 224.400 | 242352 | 1080 |
| | 255.000 | 247860 | 972 |
| | 295.638 | 248336 | 840 |
| | 335.952 | 253980 | 756 |
| GST06-1 | 1.600 | 40 | 25 |
| | 2.048 | 43 | 21 |
| | 2.240 | 56 | 25 |
| | 2.857 | 60 | 21 |
| | 3.500 | 63 | 18 |
| | 4.556 | 82 | |
| | 5.667 | 68 | 12 |
| | 7.333 | 88 | |
| | 8.900 | 89 | 10 |
| | 11.250 | 90 | 8 |
| GST06-2 | 3.033 | 1365 | 450 |
| | 3.333 | 1400 | 420 |
| | 4.160 | 1560 | 375 |
| | 4.571 | 1600 | 350 |
| | 5.324 | 1677 | 315 |
| | 5.850 | 1720 | 294 |
| | 6.400 | 2240 | 350 |
| | 7.040 | 1760 | 250 |
| | 8.163 | 2400 | 294 |
| | 9.010 | 1892 | 210 |
| | 10.000 | 2520 | 252 |
| | 11.200 | | 225 |

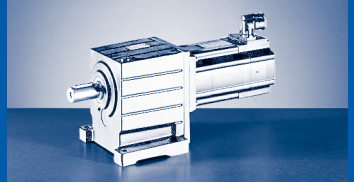


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST06-2 | 12.571 | 2640 | 210 |
| | 14.286 | 2700 | 189 |
| | 15.400 | 2772 | 180 |
| | 17.500 | 2835 | 162 |
| | 20.044 | 3608 | 180 |
| | 22.778 | 3690 | 162 |
| | 24.933 | 2992 | 120 |
| | 28.333 | 3060 | 108 |
| | 32.267 | 3872 | 120 |
| | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 49.500 | 3960 | 80 |
| | 56.250 | 4050 | 72 |
| GST06-3 | 39.200 | 158760 | 4050 |
| | 44.000 | 166320 | 3780 |
| | 51.022 | 206640 | 4050 |
| | 53.900 | 174636 | 3240 |
| | 67.760 | 182952 | 2700 |
| | 70.156 | 227304 | 3240 |
| | 80.952 | 183600 | 2268 |
| | 87.267 | 188496 | 2160 |
| | 99.167 | 192780 | 1944 |
| | 109.707 | 197472 | 1800 |
| | 124.667 | 201960 | 1620 |
| | 141.289 | 203456 | 1440 |
| | 160.556 | 208080 | 1296 |
| | 179.067 | 236368 | 1320 |
| | 203.485 | 241740 | 1188 |
| | 231.733 | 305888 | 1320 |
| | 255.000 | 247860 | 972 |
| | 290.400 | 313632 | 1080 |
| | 330.000 | 320760 | 972 |
| | 382.590 | 321376 | 840 |
| | 434.762 | 328680 | 756 |
| GST07-1 | 1.625 | 39 | 24 |
| | 2.000 | 42 | 21 |
| | 2.240 | 56 | 25 |
| | 2.857 | 60 | 21 |
| | 3.500 | 63 | 18 |
| | 4.556 | 82 | |
| | 5.583 | 67 | 12 |
| | 7.333 | 88 | |
| | 8.900 | 89 | 10 |
| | 11.250 | 90 | 8 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST07-2 | 3.048 | 1326 | 435 |
| | 3.350 | 1360 | 406 |
| | 4.225 | 1521 | 360 |
| | 4.643 | 1560 | 336 |
| | 5.200 | 1638 | 315 |
| | 5.714 | 1680 | 294 |
| | 6.400 | 2240 | 350 |
| | 7.150 | 1716 | 240 |
| | 8.125 | 1755 | 216 |
| | 8.800 | 1848 | 210 |
| | 9.856 | 2464 | 250 |
| | 11.200 | 2520 | 225 |
| | 12.571 | 2640 | 210 |
| | 14.286 | 2700 | 189 |
| | 15.400 | 2772 | 180 |
| | 17.500 | 2835 | 162 |
| | 20.044 | 3608 | 180 |
| | 22.778 | 3690 | 162 |
| | 24.567 | 2948 | 120 |
| | 27.917 | 3015 | 108 |
| | 32.267 | 3872 | 120 |
| | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 49.500 | 3960 | 80 |
| | 56.250 | 4050 | 72 |
| GST07-3 | 39.200 | 158760 | 4050 |
| | 44.000 | 166320 | 3780 |
| | 51.022 | 206640 | 4050 |
| | 53.900 | 174636 | 3240 |
| | 65.079 | 221400 | 3402 |
| | 70.156 | 227304 | 3240 |
| | 79.762 | 180900 | 2268 |
| | 85.983 | 185724 | 2160 |
| | 97.708 | 189945 | 1944 |
| | 111.915 | 241736 | 2160 |
| | 127.176 | 247230 | 1944 |
| | 139.211 | 200464 | 1440 |
| | 158.194 | 205020 | 1296 |
| | 180.156 | 259424 | 1440 |
| | 204.722 | 265320 | 1296 |
| | 236.622 | 340736 | 1440 |
| | 248.458 | 268335 | 1080 |
| | 268.889 | 348480 | 1296 |
| | 326.333 | 352440 | 1080 |

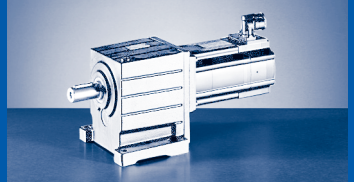


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST07-3 | 367.033 | 352352 | 960 |
| | 417.083 | 360360 | 864 |
| GST09-1 | 1.560 | 39 | 25 |
| | 2.048 | 43 | 21 |
| | 2.333 | 56 | 24 |
| | 2.810 | 59 | 21 |
| | 3.444 | 62 | 18 |
| | 4.667 | 84 | |
| | 5.667 | 68 | 12 |
| | 7.333 | 88 | |
| | 8.900 | 89 | 10 |
| | 11.250 | 90 | 8 |
| GST09-2 | 4.056 | 1521 | 375 |
| | 4.457 | 1560 | 350 |
| | 5.324 | 1677 | 315 |
| | 5.850 | 1720 | 294 |
| | 6.667 | 2240 | 336 |
| | 7.305 | 2301 | 315 |
| | 8.027 | 2360 | 294 |
| | 9.010 | 1892 | 210 |
| | 10.267 | 2464 | 240 |
| | 11.667 | 2520 | 216 |
| | 12.362 | 2596 | 210 |
| | 14.048 | 2655 | 189 |
| | 15.156 | 2728 | 180 |
| | 17.222 | 2790 | 162 |
| | 20.533 | 3696 | 180 |
| | 23.333 | 3780 | 162 |
| | 24.933 | 2992 | 120 |
| | 28.333 | 3060 | 108 |
| | 32.267 | 3872 | 120 |
| | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 49.500 | 3960 | 80 |
| | 56.250 | 4050 | 72 |
| GST09-3 | 40.136 | 159300 | 3969 |
| | 43.267 | 163548 | 3780 |
| | 49.167 | 167265 | 3402 |
| | 53.044 | 171864 | 3240 |
| | 60.278 | 175770 | 2916 |
| | 71.867 | 232848 | 3240 |
| | 81.667 | 238140 | 2916 |
| | 93.541 | 303072 | 3240 |
| | 99.167 | 192780 | 1944 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST09-3 | 113.585 | 245344 | 2160 |
| | 129.074 | 250920 | 1944 |
| | 141.289 | 203456 | 1440 |
| | 160.556 | 208080 | 1296 |
| | 182.844 | 263296 | 1440 |
| | 207.778 | 269280 | 1296 |
| | 236.622 | 340736 | 1440 |
| | 252.167 | 272340 | 1080 |
| | 268.889 | 348480 | 1296 |
| | 326.333 | 352440 | 1080 |
| | 363.000 | 348480 | 960 |
| | 412.500 | 356400 | 864 |
| GST11-2 | 4.056 | 1521 | 375 |
| | 4.457 | 1560 | 350 |
| | 5.324 | 1677 | 315 |
| | 5.850 | 1720 | 294 |
| | 6.400 | 2240 | 350 |
| | 6.864 | 1716 | 250 |
| | 7.800 | 1755 | 225 |
| | 9.010 | 1892 | 210 |
| | 9.856 | 2464 | 250 |
| | 11.200 | 2520 | 225 |
| | 12.571 | 2640 | 210 |
| | 14.286 | 2700 | 189 |
| | 15.400 | 2772 | 180 |
| | 17.500 | 2835 | 162 |
| | 20.289 | 3652 | 180 |
| | 23.056 | 3735 | 162 |
| | 24.933 | 2992 | 120 |
| | 28.333 | 3060 | 108 |
| | 32.267 | 3872 | 120 |
| | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 49.500 | 3960 | 80 |
| | 56.250 | 4050 | 72 |
| GST11-3 | 40.816 | 162000 | 3969 |
| | 44.000 | 166320 | 3780 |
| | 50.000 | 170100 | 3402 |
| | 57.968 | 219120 | 3780 |
| | 61.250 | 178605 | 2916 |
| | 71.011 | 230076 | 3240 |
| | 80.694 | 235305 | 2916 |
| | 87.267 | 188496 | 2160 |
| | 99.167 | 192780 | 1944 |

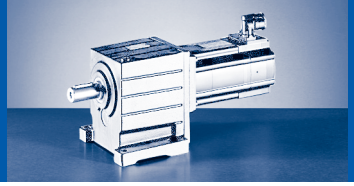


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST11-3 | 112.933 | 243936 | 2160 |
| | 129.074 | 250920 | 1944 |
| | 146.993 | 317504 | 2160 |
| | 158.194 | 205020 | 1296 |
| | 180.156 | 259424 | 1440 |
| | 207.778 | 269280 | 1296 |
| | 236.622 | 340736 | 1440 |
| | 252.167 | 272340 | 1080 |
| | 268.889 | 348480 | 1296 |
| | 326.333 | 352440 | 1080 |
| | 363.000 | 348480 | 960 |
| | 412.500 | 356400 | 864 |
| GST14-2 | 4.225 | 1521 | 360 |
| | 4.643 | 1560 | 336 |
| | 5.200 | 1638 | 315 |
| | 5.714 | 1680 | 294 |
| | 6.286 | 2200 | 350 |
| | 7.150 | 1716 | 240 |
| | 8.027 | 2360 | 294 |
| | 8.800 | 1848 | 210 |
| | 9.841 | 2480 | 252 |
| | 11.000 | 2475 | 225 |
| | 12.362 | 2596 | 210 |
| | 14.048 | 2655 | 189 |
| | 15.156 | 2728 | 180 |
| | 17.222 | 2790 | 162 |
| | 20.044 | 3608 | 180 |
| | 22.778 | 3690 | 162 |
| | 24.567 | 2948 | 120 |
| | 27.917 | 3015 | 108 |
| | 32.267 | 3872 | 120 |
| | 36.667 | 3960 | 108 |
| | 39.160 | 3916 | 100 |
| | 44.500 | 4005 | 90 |
| | 49.500 | 3960 | 80 |
| | 56.250 | 4050 | 72 |
| GST14-3 | 40.185 | 156240 | 3888 |
| | 42.580 | 160952 | 3780 |
| | 48.386 | 164610 | 3402 |
| | 53.148 | 206640 | 3888 |
| | 59.321 | 172980 | 2916 |
| | 69.042 | 223696 | 3240 |
| | 78.457 | 228780 | 2916 |
| | 93.541 | 303072 | 3240 |
| | 96.157 | 186930 | 1944 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GST14-3 | **106.296** | 309960 | 2916 |
| | **130.278** | 253260 | 1944 |
| | **139.211** | 200464 | 1440 |
| | **158.194** | 205020 | 1296 |
| | **171.111** | 332640 | 1944 |
| | **204.722** | 265320 | 1296 |
| | **236.622** | 340736 | 1440 |
| | **248.458** | 268335 | 1080 |
| | **268.889** | 348480 | 1296 |
| | **326.333** | 352440 | 1080 |
| | **363.000** | 348480 | 960 |
| | **412.500** | 356400 | 864 |

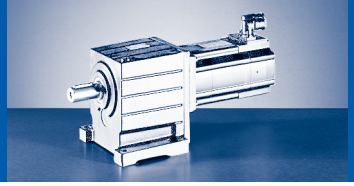


## $M_{2\,GN} \leq 45$ Nm

| GST03-2S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 2.597 | 18 | 0.26 | $M_2$ | | 3 | 4 |
| | | | c | | 4.3 | 3.4 |
| | | | $n_{2\,Eck}$ | | 1559 | 1559 |
| | | | $n_{2\,th}$ | | 1559 | 1559 |
| 3.413 | 19 | 0.17 | $M_2$ | | 4 | 5 |
| | | | c | | 3.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 1187 | 1187 |
| | | | $n_{2\,th}$ | | 1187 | 1187 |
| 4.368 | 21 | 0.12 | $M_2$ | 2 | 5 | 6 |
| | | | c | 5.9 | 3.0 | 2.4 |
| | | | $n_{2\,Eck}$ | 927 | 927 | 927 |
| | | | $n_{2\,th}$ | 927 | 927 | 927 |
| 5.312 | 27 | 0.18 | $M_2$ | | 6 | 8 |
| | | | c | | 3.1 | 2.5 |
| | | | $n_{2\,Eck}$ | | 762 | 762 |
| | | | $n_{2\,th}$ | | 762 | 740 |
| 5.965 | 29 | 0.17 | $M_2$ | 3 | 7 | 9 |
| | | | c | 5.9 | 3.0 | 2.4 |
| | | | $n_{2\,Eck}$ | 679 | 679 | 679 |
| | | | $n_{2\,th}$ | 679 | 679 | 653 |
| 6.982 | 30 | 0.12 | $M_2$ | 4 | 8 | 10 |
| | | | c | 5.2 | 2.6 | 2.1 |
| | | | $n_{2\,Eck}$ | 580 | 580 | 580 |
| | | | $n_{2\,th}$ | 580 | 580 | 580 |
| 7.840 | 32 | 0.12 | $M_2$ | 4 | 9 | 11 |
| | | | c | 5.0 | 2.5 | 2.0 |
| | | | $n_{2\,Eck}$ | 517 | 517 | 517 |
| | | | $n_{2\,th}$ | 517 | 517 | 517 |
| 8.935 | 33 | 0.09 | $M_2$ | 5 | 10 | 13 |
| | | | c | 4.5 | 2.3 | 1.8 |
| | | | $n_{2\,Eck}$ | 453 | 453 | 453 |
| | | | $n_{2\,th}$ | 453 | 453 | 453 |
| 10.033 | 35 | 0.09 | $M_2$ | 6 | 12 | 14 |
| | | | c | 4.3 | 2.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 404 | 404 | 404 |
| | | | $n_{2\,th}$ | 404 | 404 | 404 |
| 11.429 | 35 | 0.06 | $M_2$ | 7 | 13 | 17 |
| | | | c | 3.8 | 1.9 | 1.5 |
| | | | $n_{2\,Eck}$ | 354 | 354 | 354 |
| | | | $n_{2\,th}$ | 354 | 354 | 354 |
| 12.833 | 38 | 0.06 | $M_2$ | 7 | 15 | 19 |
| | | | c | 3.6 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | 316 | 316 | 316 |
| | | | $n_{2\,th}$ | 316 | 316 | 316 |
| 14.836 | 39 | 0.04 | $M_2$ | 8 | 17 | 22 |
| | | | c | 3.2 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | 273 | 273 | 273 |
| | | | $n_{2\,th}$ | 273 | 273 | 273 |
| 16.660 | 41 | 0.04 | $M_2$ | 10 | 19 | 24 |
| | | | c | 3.5 | 1.7 | 1.4 |
| | | | $n_{2\,Eck}$ | 243 | 243 | 243 |
| | | | $n_{2\,th}$ | 243 | 243 | 243 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 45$ Nm

| GST03-2S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 19.013 | 42 | 0.03 | $M_2$ | 11 | 22 | 28 |
| | | | c | 3.1 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | 213 | 213 | 213 |
| | | | $n_{2\,th}$ | 213 | 213 | 213 |
| 21.350 | 44 | 0.03 | $M_2$ | 12 | 25 | 31 |
| | | | c | 2.9 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | 190 | 190 | 190 |
| | | | $n_{2\,th}$ | 190 | 190 | 190 |
| 24.595 | 45 | 0.02 | $M_2$ | 14 | 29 | 36 |
| | | | c | 2.6 | 1.3 | 1.0 |
| | | | $n_{2\,Eck}$ | 165 | 165 | 165 |
| | | | $n_{2\,th}$ | 165 | 165 | 165 |
| 27.618 | 45 | 0.02 | $M_2$ | 16 | 32 | |
| | | | c | 2.3 | 1.1 | |
| | | | $n_{2\,Eck}$ | 147 | 147 | |
| | | | $n_{2\,th}$ | 147 | 147 | |
| 32.000 | 45 | 0.01 | $M_2$ | 18 | | |
| | | | c | 2.0 | | |
| | | | $n_{2\,Eck}$ | 127 | | |
| | | | $n_{2\,th}$ | 127 | | |
| 35.933 | 45 | 0.01 | $M_2$ | 21 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 113 | | |
| | | | $n_{2\,th}$ | 113 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

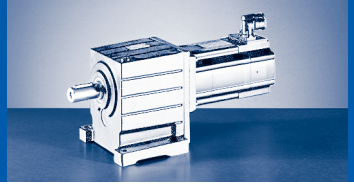
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 25$ Nm

| GST04-1S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 1.600 | 19 | 0.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 2<br>5.8<br>2531<br>2531 | 4<br>3.8<br>2531<br>2380 | 5<br>2.9<br>2344<br>2271 | 6<br>2.3<br>2531<br>2179 | 7<br>1.9<br>2531<br>2104 |
| 2.048 | 23 | 0.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 3<br>5.4<br>1978<br>1978 | 5<br>3.5<br>1978<br>1978 | 6<br>2.7<br>1831<br>1831 | 8<br>2.1<br>1978<br>1978 | 9<br>1.8<br>1978<br>1867 |
| 2.240 | 25 | 0.17 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 3<br>5.4<br>1808<br>1808 | 5<br>3.5<br>1808<br>1808 | 7<br>2.7<br>1674<br>1674 | 8<br>2.1<br>1808<br>1808 | 10<br>1.8<br>1808<br>1770 |
| 2.857 | 25 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 3<br>5.3<br>1418<br>1418 | 4<br>4.3<br>1418<br>1418 | 6<br>2.8<br>1418<br>1418 | 9<br>2.1<br>1313<br>1313 | 11<br>1.7<br>1418<br>1418 | 13<br>1.4<br>1418<br>1418 |
| 3.500 | 25 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 4<br>4.3<br>1157<br>1157 | 5<br>3.5<br>1157<br>1157 | 8<br>2.3<br>1157<br>1157 | 11<br>1.7<br>1071<br>1071 | 13<br>1.4<br>1157<br>1157 | 15<br>1.2<br>1157<br>1157 |
| 4.400 | 25 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 5<br>3.5<br>921<br>920 | 6<br>2.8<br>921<br>920 | | | | |
| 5.667 | 25 | 0.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3<br>5.4<br>715<br>715 | 7<br>2.7<br>715<br>715 | 8<br>2.1<br>715<br>715 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 71$ Nm

| GST04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 2.956 | 39 | 0.34 | $M_2$ | | | | 6 | 9 | 11 | 13 |
| | | | c | | | | 4.3 | 3.2 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 1370 | 1269 | 1370 | 1370 |
| | | | $n_{2\,th}$ | | | | 1186 | 1127 | 1077 | 1041 |
| 3.333 | 42 | 0.32 | $M_2$ | | | | 7 | 10 | 12 | 14 |
| | | | c | | | | 4.0 | 3.1 | 2.4 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 1215 | 1125 | 1215 | 1215 |
| | | | $n_{2\,th}$ | | | | 1041 | 989 | 945 | 912 |
| 4.053 | 45 | 0.31 | $M_2$ | | | 6 | 9 | 12 | 15 | 18 |
| | | | c | | | 5.5 | 3.6 | 2.7 | 2.2 | 1.8 |
| | | | $n_{2\,Eck}$ | | | 999 | 999 | 925 | 999 | 999 |
| | | | $n_{2\,th}$ | | | 997 | 930 | 887 | 850 | 805 |
| 4.571 | 48 | 0.30 | $M_2$ | | | 6 | 10 | 14 | 17 | 20 |
| | | | c | | | 5.2 | 3.4 | 2.6 | 2.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | | 886 | 886 | 820 | 886 | 886 |
| | | | $n_{2\,th}$ | | | 876 | 816 | 778 | 746 | 694 |
| 5.187 | 50 | 0.22 | $M_2$ | | 6 | 7 | 11 | 15 | 19 | 23 |
| | | | c | | 6.0 | 4.8 | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 781 | 781 | 781 | 723 | 781 | 781 |
| | | | $n_{2\,th}$ | | 781 | 781 | 781 | 723 | 753 | 689 |
| 5.850 | 53 | 0.22 | $M_2$ | | 7 | 8 | 13 | 17 | 21 | 25 |
| | | | c | | 5.6 | 4.5 | 2.9 | 2.2 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 692 | 692 | 692 | 641 | 692 | 692 |
| | | | $n_{2\,th}$ | | 692 | 692 | 692 | 641 | 648 | 594 |
| 6.400 | 55 | 0.19 | $M_2$ | | 7 | 9 | 14 | 19 | 23 | 28 |
| | | | c | | 5.3 | 4.3 | 2.8 | 2.1 | 1.7 | 1.4 |
| | | | $n_{2\,Eck}$ | | 633 | 633 | 633 | 586 | 633 | 633 |
| | | | $n_{2\,th}$ | | 633 | 633 | 633 | 586 | 600 | 553 |
| 7.040 | 57 | 0.26 | $M_2$ | | 8 | 10 | 15 | 21 | 26 | 31 |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 575 | 575 | 575 | 533 | 575 | 575 |
| | | | $n_{2\,th}$ | | 565 | 545 | 506 | 482 | 431 | 400 |
| 8.000 | 59 | 0.26 | $M_2$ | | 9 | 11 | 18 | 24 | 29 | 35 |
| | | | c | | 4.5 | 3.6 | 2.4 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 506 | 506 | 506 | 469 | 506 | 506 |
| | | | $n_{2\,th}$ | | 490 | 472 | 438 | 405 | 364 | 339 |
| 9.010 | 63 | 0.19 | $M_2$ | | 10 | 13 | 20 | 27 | 33 | 39 |
| | | | c | | 4.3 | 3.4 | 2.2 | 1.7 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | | 450 | 450 | 450 | 416 | 450 | 450 |
| | | | $n_{2\,th}$ | | 450 | 450 | 450 | 412 | 368 | 341 |
| 9.856 | 65 | 0.17 | $M_2$ | | 11 | 14 | 22 | 29 | 36 | 43 |
| | | | c | | 4.1 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 411 | 411 | 411 | 381 | 411 | 411 |
| | | | $n_{2\,th}$ | | 411 | 411 | 411 | 380 | 344 | 321 |
| 11.200 | 60 | 0.17 | $M_2$ | | 13 | 16 | 25 | 34 | 41 | |
| | | | c | | 3.3 | 2.6 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 362 | 362 | 362 | 335 | 362 | |
| | | | $n_{2\,th}$ | | 362 | 362 | 348 | 306 | 278 | |
| 12.571 | 69 | 0.13 | $M_2$ | | 14 | 18 | 28 | 38 | 46 | |
| | | | c | | 3.4 | 2.7 | 1.8 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 322 | 322 | 322 | 298 | 322 | |
| | | | $n_{2\,th}$ | | 322 | 322 | 322 | 298 | 291 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

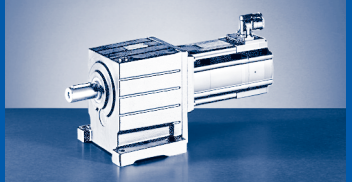
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 71$ Nm

| GST04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 14.286 | 61 | 0.12 | $M_2$ | 8 | 16 | 21 | 32 | 43 | | |
| | | | c | 5.3 | 2.6 | 2.1 | 1.4 | 1.0 | | |
| | | | $n_{2\,Eck}$ | 284 | 284 | 284 | 284 | 263 | | |
| | | | $n_{2\,th}$ | 284 | 284 | 284 | 280 | 254 | | |
| 15.400 | 70 | 0.10 | $M_2$ | | 18 | 22 | 34 | 46 | 57 | |
| | | | c | | 3.2 | 2.5 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 263 | 263 | 263 | 244 | 263 | |
| | | | $n_{2\,th}$ | | 263 | 263 | 263 | 244 | 263 | |
| 17.500 | 62 | 0.10 | $M_2$ | 10 | 20 | 25 | 39 | | | |
| | | | c | 4.9 | 2.5 | 2.0 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 231 | 231 | 231 | 231 | | | |
| | | | $n_{2\,th}$ | 231 | 231 | 231 | 231 | | | |
| 19.360 | 70 | 0.06 | $M_2$ | 11 | 22 | 28 | | | | |
| | | | c | 5.1 | 2.6 | 2.0 | | | | |
| | | | $n_{2\,Eck}$ | 209 | 209 | 209 | | | | |
| | | | $n_{2\,th}$ | 209 | 209 | 209 | | | | |
| 22.000 | 62 | 0.06 | $M_2$ | 12 | 25 | 32 | | | | |
| | | | c | 4.0 | 2.0 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 184 | 184 | 184 | | | | |
| | | | $n_{2\,th}$ | 184 | 184 | 184 | | | | |
| 24.933 | 71 | 0.04 | $M_2$ | 14 | 29 | 36 | | | | |
| | | | c | 4.0 | 2.0 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 162 | 162 | 162 | | | | |
| | | | $n_{2\,th}$ | 162 | 162 | 162 | | | | |
| 28.333 | 63 | 0.04 | $M_2$ | 16 | 33 | 41 | | | | |
| | | | c | 3.1 | 1.6 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 143 | 143 | 143 | | | | |
| | | | $n_{2\,th}$ | 143 | 143 | 143 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

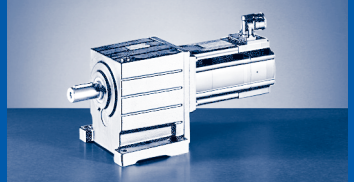


## $M_{2\,GN} \leq 54$ Nm

| GST05-1S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 1.600 | 45 | 0.76 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 6<br>5.4<br>2531<br>2236 | 7<br>4.5<br>2531<br>2168 |
| 2.048 | 51 | 0.55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 6<br>6.0<br>1831<br>1831 | 7<br>4.8<br>1978<br>1862 | 9<br>4.0<br>1978<br>1809 |
| 2.048 | 53 | 0.55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 2.240 | 53 | 0.48 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 7<br>5.7<br>1674<br>1674 | 8<br>4.5<br>1808<br>1748 | 10<br>3.8<br>1808<br>1699 |
| 2.857 | 53 | 0.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 6<br>5.9<br>1418<br>1418 | 8<br>4.5<br>1313<br>1313 | 10<br>3.6<br>1418<br>1418 | 12<br>3.0<br>1418<br>1418 |
| 3.500 | 41 | 0.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 5<br>5.7<br>1157<br>1157 | | | | |
| 3.500 | 54 | 0.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 8<br>4.9<br>1157<br>1157 | 10<br>3.7<br>1071<br>1071 | 13<br>3.0<br>1157<br>1157 | 15<br>2.5<br>1157<br>1157 |
| 4.556 | 42 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 5<br>5.7<br>889<br>889 | 7<br>4.5<br>889<br>889 | | | | |
| 4.556 | 54 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 10<br>3.8<br>889<br>889 | 14<br>2.9<br>823<br>823 | 17<br>2.3<br>889<br>889 | 20<br>1.9<br>889<br>889 |
| 5.667 | 44 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 6<br>4.7<br>715<br>715 | 8<br>3.8<br>715<br>715 | | | | |
| 5.667 | 54 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 13<br>3.0<br>715<br>715 | 17<br>2.3<br>662<br>662 | 21<br>1.8<br>715<br>715 | 25<br>1.5<br>715<br>715 |
| 7.333 | 46 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 8<br>3.8<br>552<br>552 | 11<br>3.0<br>552<br>552 | | | | |
| 8.900 | 42 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5<br>5.8<br>455<br>455 | 10<br>2.9<br>455<br>455 | 13<br>2.3<br>455<br>455 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 54$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST05-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 8 | 7 | 15 | 12 | 12 | 21 | 17 | $M_2$ | 0.76 | 45 | 1.600 |
| 4.7 | 4.7 | 2.8 | 2.8 | 2.8 | 1.9 | 1.9 | c | | | |
| 1219 | 2531 | 938 | 1875 | 2203 | 1219 | 2531 | $n_{2\,Eck}$ | | | |
| 1219 | 2186 | 938 | 1875 | 1982 | 1219 | 1771 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.55 | 51 | 2.048 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 11 | 8 | 20 | 16 | 15 | 27 | 22 | $M_2$ | 0.55 | 53 | 2.048 |
| 4.3 | 4.4 | 2.6 | 2.6 | 2.6 | 1.8 | 1.7 | c | | | |
| 952 | 1978 | 733 | 1465 | 1722 | 952 | 1978 | $n_{2\,Eck}$ | | | |
| 952 | 1834 | 733 | 1465 | 1674 | 952 | 1470 | $n_{2\,th}$ | | | |
| 12 | 9 | 22 | 17 | 16 | 30 | 24 | $M_2$ | 0.48 | 53 | 2.240 |
| 4.0 | 4.0 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | c | | | |
| 871 | 1808 | 670 | 1339 | 1574 | 871 | 1808 | $n_{2\,Eck}$ | | | |
| 871 | 1712 | 670 | 1339 | 1567 | 871 | 1351 | $n_{2\,th}$ | | | |
| 15 | 12 | 28 | 22 | 21 | 38 | 31 | $M_2$ | 0.35 | 53 | 2.857 |
| 3.1 | 3.2 | 1.9 | 1.9 | 1.9 | 1.3 | 1.2 | c | | | |
| 683 | 1418 | 525 | 1050 | 1234 | 683 | 1418 | $n_{2\,Eck}$ | | | |
| 683 | 1418 | 525 | 1050 | 1234 | 683 | 1120 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.27 | 41 | 3.500 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 19 | 15 | 34 | 27 | 26 | 47 | 38 | $M_2$ | 0.27 | 54 | 3.500 |
| 2.6 | 2.6 | 1.6 | 1.6 | 1.6 | 1.1 | 1.0 | c | | | |
| 557 | 1157 | 429 | 857 | 1007 | 557 | 1157 | $n_{2\,Eck}$ | | | |
| 557 | 1157 | 429 | 857 | 1007 | 557 | 969 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.18 | 42 | 4.556 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.18 | 54 | 4.556 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.13 | 44 | 5.667 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.13 | 54 | 5.667 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.06 | 46 | 7.333 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.06 | 42 | 8.900 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

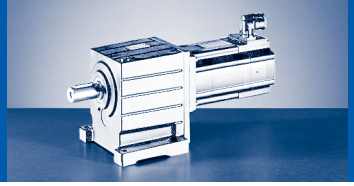
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 165$ Nm

| GST05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 2.956 | 63 | 0.99 | $M_2$ | | | | | 9 | 11 | 13 |
| | | | c | | | | | 5.2 | 4.2 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | 1269 | 1370 | 1370 |
| | | | $n_{2\,th}$ | | | | | 1029 | 985 | 953 |
| 3.333 | 78 | 0.94 | $M_2$ | | | | | 10 | 12 | 14 |
| | | | c | | | | | 5.7 | 4.6 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | 1125 | 1215 | 1215 |
| | | | $n_{2\,th}$ | | | | | 928 | 889 | 860 |
| 4.053 | 81 | 0.90 | $M_2$ | | | | | 12 | 14 | 17 |
| | | | c | | | | | 4.9 | 3.9 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | 925 | 999 | 999 |
| | | | $n_{2\,th}$ | | | | | 869 | 832 | 806 |
| 4.571 | 91 | 0.86 | $M_2$ | | | | | 13 | 16 | 19 |
| | | | c | | | | | 4.9 | 3.9 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | 820 | 886 | 886 |
| | | | $n_{2\,th}$ | | | | | 770 | 738 | 714 |
| 5.187 | 90 | 0.64 | $M_2$ | | | | 11 | 15 | 19 | 22 |
| | | | c | | | | 5.6 | 4.3 | 3.4 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 781 | 723 | 781 | 781 |
| | | | $n_{2\,th}$ | | | | 755 | 721 | 693 | 672 |
| 5.850 | 101 | 0.61 | $M_2$ | | | | 12 | 17 | 21 | 25 |
| | | | c | | | | 5.6 | 4.2 | 3.4 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 692 | 641 | 692 | 692 |
| | | | $n_{2\,th}$ | | | | 669 | 639 | 614 | 596 |
| 6.400 | 105 | 0.53 | $M_2$ | | | | 14 | 19 | 23 | 27 |
| | | | c | | | | 5.3 | 4.0 | 3.2 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 633 | 586 | 633 | 633 |
| | | | $n_{2\,th}$ | | | | 627 | 586 | 576 | 559 |
| 7.238 | 108 | 0.40 | $M_2$ | | | | 16 | 21 | 26 | 31 |
| | | | c | | | | 4.8 | 3.7 | 2.9 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | 560 | 518 | 560 | 560 |
| | | | $n_{2\,th}$ | | | | 560 | 518 | 560 | 560 |
| 8.163 | 115 | 0.39 | $M_2$ | | | | 18 | 24 | 30 | 35 |
| | | | c | | | | 4.5 | 3.5 | 2.8 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | 496 | 459 | 496 | 496 |
| | | | $n_{2\,th}$ | | | | 496 | 459 | 496 | 496 |
| 9.010 | 119 | 0.54 | $M_2$ | | | | 19 | 26 | 33 | 39 |
| | | | c | | | | 4.2 | 3.2 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 450 | 416 | 450 | 450 |
| | | | $n_{2\,th}$ | | | | 415 | 396 | 379 | 367 |
| 10.000 | 114 | 0.30 | $M_2$ | | | 14 | | | | |
| | | | c | | | 5.7 | | | | |
| | | | $n_{2\,Eck}$ | | | 405 | | | | |
| | | | $n_{2\,th}$ | | | 405 | | | | |
| 10.000 | 124 | 0.30 | $M_2$ | | | | 22 | 29 | 36 | 43 |
| | | | c | | | | 4.0 | 3.0 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 405 | 375 | 405 | 405 |
| | | | $n_{2\,th}$ | | | | 405 | 375 | 405 | 405 |
| 11.200 | 128 | 0.46 | $M_2$ | | | 16 | 24 | 33 | 41 | 48 |
| | | | c | | | 5.6 | 3.7 | 2.8 | 2.2 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 362 | 362 | 335 | 362 | 362 |
| | | | $n_{2\,th}$ | | | 362 | 337 | 322 | 309 | 294 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 165$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 15 | 12 | 28 | 23 | 21 | 39 | 31 | $M_2$ | 0.99 | 63 | 2.956 |
| 3.7 | 3.7 | 2.2 | 2.2 | 2.2 | 1.5 | 1.4 | c | | | |
| 660 | 1370 | 508 | 1015 | 1193 | 660 | 1370 | $n_{2\,Eck}$ | | | |
| 660 | 961 | 508 | 861 | 863 | 660 | 708 | $n_{2\,th}$ | | | |
| 17 | 13 | 32 | 26 | 24 | 43 | 35 | $M_2$ | 0.94 | 78 | 3.333 |
| 4.0 | 4.0 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | c | | | |
| 585 | 1215 | 450 | 900 | 1058 | 585 | 1215 | $n_{2\,Eck}$ | | | |
| 585 | 868 | 450 | 779 | 781 | 585 | 659 | $n_{2\,th}$ | | | |
| 21 | 16 | 39 | 31 | 29 | 53 | 43 | $M_2$ | 0.90 | 81 | 4.053 |
| 3.4 | 3.5 | 2.1 | 2.1 | 2.1 | 1.4 | 1.4 | c | | | |
| 481 | 999 | 370 | 740 | 870 | 481 | 999 | $n_{2\,Eck}$ | | | |
| 481 | 813 | 370 | 731 | 732 | 481 | 589 | $n_{2\,th}$ | | | |
| 24 | 19 | 44 | 35 | 33 | 60 | 49 | $M_2$ | 0.86 | 91 | 4.571 |
| 3.4 | 3.4 | 2.1 | 2.0 | 2.1 | 1.4 | 1.3 | c | | | |
| 427 | 886 | 328 | 656 | 771 | 427 | 886 | $n_{2\,Eck}$ | | | |
| 427 | 720 | 328 | 647 | 649 | 427 | 521 | $n_{2\,th}$ | | | |
| 27 | 21 | 50 | 40 | 37 | 68 | 55 | $M_2$ | 0.64 | 90 | 5.187 |
| 3.0 | 3.0 | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | c | | | |
| 376 | 781 | 289 | 578 | 680 | 376 | 781 | $n_{2\,Eck}$ | | | |
| 376 | 677 | 289 | 578 | 596 | 376 | 489 | $n_{2\,th}$ | | | |
| 31 | 24 | 56 | 45 | 42 | 76 | 62 | $M_2$ | 0.61 | 101 | 5.850 |
| 3.0 | 3.0 | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | c | | | |
| 333 | 692 | 256 | 513 | 603 | 333 | 692 | $n_{2\,Eck}$ | | | |
| 333 | 601 | 256 | 513 | 528 | 333 | 433 | $n_{2\,th}$ | | | |
| 34 | 26 | 62 | 49 | 46 | 84 | 68 | $M_2$ | 0.53 | 105 | 6.400 |
| 2.8 | 2.8 | 1.7 | 1.7 | 1.7 | 1.2 | 1.1 | c | | | |
| 305 | 633 | 234 | 469 | 551 | 305 | 633 | $n_{2\,Eck}$ | | | |
| 305 | 564 | 234 | 469 | 490 | 305 | 408 | $n_{2\,th}$ | | | |
| 38 | 30 | 70 | 56 | 52 | 95 | 77 | $M_2$ | 0.40 | 108 | 7.238 |
| 2.6 | 2.6 | 1.5 | 1.5 | 1.6 | 1.1 | 1.0 | c | | | |
| 269 | 560 | 207 | 415 | 487 | 269 | 560 | $n_{2\,Eck}$ | | | |
| 269 | 560 | 207 | 414 | 487 | 269 | 407 | $n_{2\,th}$ | | | |
| 43 | 34 | 79 | 63 | 59 | | | $M_2$ | 0.39 | 115 | 8.163 |
| 2.4 | 2.4 | 1.5 | 1.4 | 1.5 | | | c | | | |
| 239 | 496 | 184 | 368 | 432 | | | $n_{2\,Eck}$ | | | |
| 239 | 496 | 184 | 368 | 424 | | | $n_{2\,th}$ | | | |
| 47 | 37 | 87 | 70 | 65 | | | $M_2$ | 0.54 | 119 | 9.010 |
| 2.3 | 2.3 | 1.4 | 1.4 | 1.4 | | | c | | | |
| 216 | 450 | 167 | 333 | 391 | | | $n_{2\,Eck}$ | | | |
| 216 | 371 | 166 | 300 | 301 | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.30 | 114 | 10.000 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 53 | 41 | 97 | 77 | 73 | | | $M_2$ | 0.30 | 124 | 10.000 |
| 2.1 | 2.1 | 1.3 | 1.3 | 1.3 | | | c | | | |
| 195 | 405 | 150 | 300 | 353 | | | $n_{2\,Eck}$ | | | |
| 195 | 405 | 150 | 300 | 353 | | | $n_{2\,th}$ | | | |
| 59 | 46 | 108 | 87 | 81 | | | $M_2$ | 0.46 | 128 | 11.200 |
| 2.0 | 2.0 | 1.2 | 1.2 | 1.2 | | | c | | | |
| 174 | 362 | 134 | 268 | 315 | | | $n_{2\,Eck}$ | | | |
| 174 | 301 | 134 | 238 | 239 | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

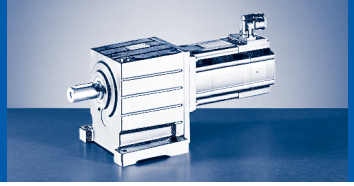
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 165$ Nm

| GST05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 13.016 | 119 | 0.18 | $M_2$ | | 14 | 18 | | | | |
| | | | c | | 5.7 | 4.5 | | | | |
| | | | $n_{2\,Eck}$ | | 311 | 311 | | | | |
| | | | $n_{2\,th}$ | | 311 | 311 | | | | |
| 13.016 | 137 | 0.18 | $M_2$ | | | | 28 | 39 | 47 | 56 |
| | | | c | | | | 3.4 | 2.6 | 2.1 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | 311 | 288 | 311 | 311 |
| | | | $n_{2\,th}$ | | | | 311 | 288 | 311 | 311 |
| 14.356 | 110 | 0.13 | $M_2$ | | 16 | 20 | | | | |
| | | | c | | 4.7 | 3.8 | | | | |
| | | | $n_{2\,Eck}$ | | 282 | 282 | | | | |
| | | | $n_{2\,th}$ | | 282 | 282 | | | | |
| 14.356 | 140 | 0.13 | $M_2$ | | | | 31 | 43 | 52 | 62 |
| | | | c | | | | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | 282 | 261 | 282 | 282 |
| | | | $n_{2\,th}$ | | | | 282 | 261 | 282 | 282 |
| 16.190 | 124 | 0.13 | $M_2$ | | 18 | 23 | | | | |
| | | | c | | 5.4 | 4.3 | | | | |
| | | | $n_{2\,Eck}$ | | 250 | 250 | | | | |
| | | | $n_{2\,th}$ | | 250 | 250 | | | | |
| 16.190 | 148 | 0.13 | $M_2$ | | | | 35 | 48 | 59 | 70 |
| | | | c | | | | 3.4 | 2.6 | 2.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | 250 | 232 | 250 | 250 |
| | | | $n_{2\,th}$ | | | | 250 | 232 | 250 | 250 |
| 17.500 | 142 | 0.27 | $M_2$ | | 19 | 25 | 38 | 52 | 64 | 76 |
| | | | c | | 5.7 | 4.6 | 3.0 | 2.3 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 231 | 231 | 231 | 214 | 231 | 231 |
| | | | $n_{2\,th}$ | | 231 | 231 | 231 | 214 | 231 | 226 |
| 20.044 | 159 | 0.16 | $M_2$ | | 22 | 28 | 44 | 60 | 73 | 87 |
| | | | c | | 5.6 | 4.5 | 2.9 | 2.2 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 202 | 202 | 202 | 187 | 202 | 202 |
| | | | $n_{2\,th}$ | | 202 | 202 | 202 | 187 | 202 | 202 |
| 22.778 | 144 | 0.16 | $M_2$ | | 26 | 32 | 50 | 68 | 84 | 99 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 178 | 178 | 178 | 165 | 178 | 178 |
| | | | $n_{2\,th}$ | | 178 | 178 | 178 | 165 | 178 | 178 |
| 24.933 | 162 | 0.12 | $M_2$ | | 28 | 35 | 55 | 74 | 92 | 109 |
| | | | c | | 4.6 | 3.6 | 2.4 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 162 | 162 | 162 | 150 | 162 | 162 |
| | | | $n_{2\,th}$ | | 162 | 162 | 162 | 150 | 162 | 162 |
| 28.333 | 147 | 0.12 | $M_2$ | | 32 | 40 | 63 | 85 | 104 | |
| | | | c | | 3.6 | 2.9 | 1.9 | 1.4 | 1.2 | |
| | | | $n_{2\,Eck}$ | | 143 | 143 | 143 | 132 | 143 | |
| | | | $n_{2\,th}$ | | 143 | 143 | 143 | 132 | 143 | |
| 32.267 | 164 | 0.08 | $M_2$ | | 37 | 46 | | | | |
| | | | c | | 3.6 | 2.9 | | | | |
| | | | $n_{2\,Eck}$ | | 126 | 126 | | | | |
| | | | $n_{2\,th}$ | | 126 | 126 | | | | |
| 36.667 | 148 | 0.08 | $M_2$ | 20 | 42 | 53 | | | | |
| | | | c | 5.7 | 2.8 | 2.3 | | | | |
| | | | $n_{2\,Eck}$ | 111 | 111 | 111 | | | | |
| | | | $n_{2\,th}$ | 110 | 110 | 110 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 165$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.18 | 119 | 13.016 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.18 | 137 | 13.016 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 110 | 14.356 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 140 | 14.356 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 124 | 16.190 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 148 | 16.190 |
| 93<br>1.5<br>111<br>111 | 73<br>1.6<br>231<br>231 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.27 | 142 | 17.500 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 159 | 20.044 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 144 | 22.778 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.12 | 162 | 24.933 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.12 | 147 | 28.333 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.08 | 164 | 32.267 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.08 | 148 | 36.667 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

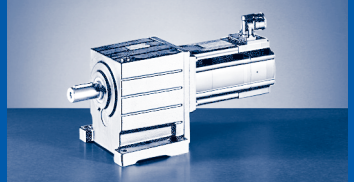
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 165$ Nm

| GST05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 39.160 | 165 | 0.06 | $M_2$ | 22 | 45 | 56 | | | | |
| | | | c | 5.9 | 3.0 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | 103 | 103 | 103 | | | | |
| | | | $n_{2\,th}$ | 103 | 103 | 103 | | | | |
| 44.500 | 149 | 0.06 | $M_2$ | 25 | 51 | 64 | | | | |
| | | | c | 5.2 | 2.6 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 91 | 91 | 91 | | | | |
| | | | $n_{2\,th}$ | 91 | 91 | 91 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\ GN} \leq 165$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\ GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\ 230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\ 400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.06 | 165 | 39.160 |
| | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.06 | 149 | 44.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

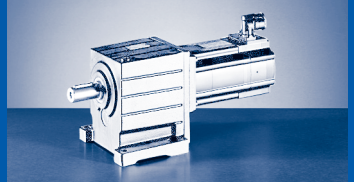
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 171$ Nm

| GST05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 |
| 36.267 | 134 | 0.20 | $M_2$ | 20 | 41 | 51 | 79 | 107 |
| | | | c | 5.3 | 2.6 | 2.1 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 112 | 112 | 112 | 112 | 103 |
| | | | $n_{2\,th}$ | 112 | 112 | 112 | 112 | 103 |
| 46.259 | 145 | 0.14 | $M_2$ | 25 | 52 | 66 | 101 | |
| | | | c | 5.0 | 2.5 | 2.0 | 1.3 | |
| | | | $n_{2\,Eck}$ | 88 | 88 | 88 | 88 | |
| | | | $n_{2\,th}$ | 88 | 88 | 88 | 88 | |
| 56.667 | 155 | 0.11 | $M_2$ | 31 | 64 | 81 | 124 | |
| | | | c | 4.3 | 2.2 | 1.7 | 1.1 | |
| | | | $n_{2\,Eck}$ | 72 | 72 | 72 | 72 | |
| | | | $n_{2\,th}$ | 71 | 71 | 71 | 71 | |
| 63.467 | 146 | 0.19 | $M_2$ | 35 | 72 | 91 | | |
| | | | c | 3.6 | 1.8 | 1.5 | | |
| | | | $n_{2\,Eck}$ | 64 | 64 | 64 | | |
| | | | $n_{2\,th}$ | 64 | 64 | 64 | | |
| 71.238 | 167 | 0.07 | $M_2$ | 40 | 81 | 102 | | |
| | | | c | 3.7 | 1.9 | 1.5 | | |
| | | | $n_{2\,Eck}$ | 57 | 57 | 57 | | |
| | | | $n_{2\,th}$ | 57 | 57 | 57 | | |
| 80.952 | 147 | 0.14 | $M_2$ | 46 | 92 | 116 | | |
| | | | c | 2.9 | 1.4 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 50 | 50 | 50 | | |
| | | | $n_{2\,th}$ | 50 | 50 | 50 | | |
| 91.746 | 171 | 0.05 | $M_2$ | 52 | 105 | 131 | | |
| | | | c | 2.9 | 1.5 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 44 | 44 | 44 | | |
| | | | $n_{2\,th}$ | 44 | 44 | 44 | | |
| 99.167 | 148 | 0.11 | $M_2$ | 56 | 114 | | | |
| | | | c | 2.4 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | 41 | 41 | | | |
| | | | $n_{2\,th}$ | 41 | 41 | | | |
| 124.667 | 149 | 0.07 | $M_2$ | 71 | | | | |
| | | | c | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 33 | | | | |
| | | | $n_{2\,th}$ | 32 | | | | |
| 160.556 | 150 | 0.05 | $M_2$ | 92 | | | | |
| | | | c | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 25 | | | | |
| | | | $n_{2\,th}$ | 25 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

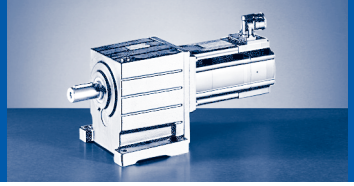


## $M_{2\,GN} \leq 105$ Nm

| GST06-1S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 1.600 | 61 | 2.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 15<br>3.9<br>938<br>938 | 12<br>3.9<br>1875<br>1759 |
| 2.048 | 63 | 1.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 7<br>5.9<br>1978<br>1725 | 9<br>5.0<br>1978<br>1672 | | | | |
| 2.048 | 72 | 1.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 11<br>6.0<br>952<br>952 | 8<br>6.0<br>1978<br>1730 | 20<br>3.6<br>733<br>733 | 16<br>3.6<br>1465<br>1465 |
| 2.240 | 66 | 1.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 8<br>5.6<br>1808<br>1612 | 10<br>4.8<br>1808<br>1564 | | | | |
| 2.240 | 79 | 1.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 12<br>5.9<br>871<br>871 | 9<br>5.9<br>1808<br>1627 | 21<br>3.6<br>670<br>670 | 17<br>3.5<br>1339<br>1339 |
| 2.857 | 71 | 0.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 8<br>6.0<br>1313<br>1313 | 10<br>4.8<br>1418<br>1346 | 12<br>4.0<br>1418<br>1309 | | | | |
| 2.857 | 91 | 0.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 15<br>5.4<br>683<br>683 | 12<br>5.4<br>1418<br>1376 | 28<br>3.3<br>525<br>525 | 22<br>3.2<br>1050<br>1050 |
| 2.857 | 92 | 0.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 3.500 | 74 | 0.74 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 10<br>5.1<br>1071<br>1071 | 13<br>4.1<br>1157<br>1157 | 15<br>3.4<br>1157<br>1157 | | | | |
| 3.500 | 96 | 0.74 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 18<br>4.6<br>557<br>557 | 14<br>4.7<br>1157<br>1157 | 34<br>2.8<br>429<br>429 | 27<br>2.8<br>857<br>857 |
| 3.500 | 105 | 0.74 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 4.556 | 52 | 0.48 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 6<br>5.6<br>889<br>889 | | | | | | | | |
| 4.556 | 78 | 0.48 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 10<br>5.4<br>889<br>889 | 13<br>4.1<br>823<br>823 | 17<br>3.3<br>889<br>889 | 20<br>2.8<br>889<br>889 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 105$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST06-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 11 | 21 | 17 | 14 | 11 | 25 | 22 | 36 | 27 | 47 | 33 | $M_2$ | 2.01 | 61 | 1.600 |
| 3.9 | 2.6 | 2.5 | 4.2 | 3.9 | 2.4 | 2.2 | 1.7 | 1.8 | 1.3 | 1.4 | c | | | |
| 2203 | 1219 | 2531 | 938 | 2250 | 938 | 2016 | 938 | 2016 | 844 | 2016 | $n_{2\,Eck}$ | | | |
| 1763 | 1219 | 1610 | 938 | 1760 | 938 | 1551 | 938 | 1421 | 844 | 1274 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.46 | 63 | 2.048 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 15 | 27 | 22 | 18 | 15 | 32 | 28 | 46 | 34 | 60 | 42 | $M_2$ | 1.46 | 72 | 2.048 |
| 3.6 | 2.4 | 2.3 | 3.9 | 3.6 | 2.2 | 2.0 | 1.6 | 1.6 | 1.2 | 1.3 | c | | | |
| 1722 | 952 | 1978 | 733 | 1758 | 733 | 1575 | 733 | 1575 | 659 | 1575 | $n_{2\,Eck}$ | | | |
| 1570 | 952 | 1436 | 733 | 1568 | 733 | 1390 | 733 | 1230 | 659 | 1103 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.27 | 66 | 2.240 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 16 | 29 | 24 | 20 | 16 | 35 | 31 | 50 | 38 | 66 | 46 | $M_2$ | 1.27 | 79 | 2.240 |
| 3.6 | 2.4 | 2.3 | 3.9 | 3.5 | 2.2 | 2.0 | 1.6 | 1.6 | 1.2 | 1.3 | c | | | |
| 1574 | 871 | 1808 | 670 | 1607 | 670 | 1440 | 670 | 1440 | 603 | 1440 | $n_{2\,Eck}$ | | | |
| 1482 | 871 | 1359 | 670 | 1480 | 670 | 1313 | 670 | 1167 | 603 | 1053 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.97 | 71 | 2.857 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 21 | 38 | 31 | | | | | | | | | $M_2$ | 0.97 | 91 | 2.857 |
| 3.3 | 2.2 | 2.1 | | | | | | | | | c | | | |
| 1234 | 683 | 1418 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 1234 | 683 | 1166 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 25 | 21 | 45 | 39 | 64 | 48 | 84 | 59 | $M_2$ | 0.97 | 92 | 2.857 |
| | | | 3.6 | 3.3 | 2.1 | 1.8 | 1.4 | 1.5 | 1.1 | 1.2 | c | | | |
| | | | 525 | 1260 | 525 | 1129 | 525 | 1129 | 473 | 1129 | $n_{2\,Eck}$ | | | |
| | | | 525 | 1257 | 525 | 1103 | 525 | 998 | 473 | 914 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.74 | 74 | 3.500 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 25 | 46 | 38 | | | | | | | | | $M_2$ | 0.74 | 96 | 3.500 |
| 2.8 | 1.9 | 1.8 | | | | | | | | | c | | | |
| 1007 | 557 | 1157 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 1007 | 557 | 1060 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 31 | 25 | 55 | 48 | 79 | 59 | 103 | 72 | $M_2$ | 0.74 | 105 | 3.500 |
| | | | 3.3 | 3.0 | 1.9 | 1.7 | 1.3 | 1.4 | 1.0 | 1.1 | c | | | |
| | | | 429 | 1029 | 429 | 921 | 429 | 921 | 386 | 921 | $n_{2\,Eck}$ | | | |
| | | | 429 | 1026 | 429 | 921 | 429 | 913 | 386 | 833 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.48 | 52 | 4.556 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.48 | 78 | 4.556 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

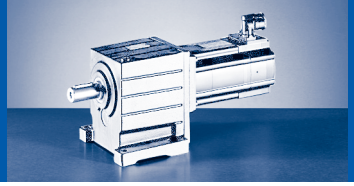
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 105$ Nm

| GST06-1S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 4.556 | 100 | 0.48 | $M_2$ | | | | | | | 24 | 19 | 44 | 35 |
| | | | c | | | | | | | 3.7 | 3.7 | 2.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 428 | 889 | 329 | 659 |
| | | | $n_{2\,th}$ | | | | | | | 428 | 889 | 329 | 659 |
| 5.667 | 54 | 0.36 | $M_2$ | 6 | 8 | | | | | | | | |
| | | | c | 5.8 | 4.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 715 | 715 | | | | | | | | |
| | | | $n_{2\,th}$ | 715 | 715 | | | | | | | | |
| 5.667 | 81 | 0.36 | $M_2$ | | | 12 | 17 | 21 | 25 | | | | |
| | | | c | | | 4.5 | 3.4 | 2.7 | 2.3 | | | | |
| | | | $n_{2\,Eck}$ | | | 715 | 662 | 715 | 715 | | | | |
| | | | $n_{2\,th}$ | | | 715 | 662 | 715 | 715 | | | | |
| 5.667 | 104 | 0.36 | $M_2$ | | | | | | | 30 | 23 | 55 | 44 |
| | | | c | | | | | | | 3.1 | 3.1 | 1.9 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 344 | 715 | 265 | 529 |
| | | | $n_{2\,th}$ | | | | | | | 344 | 715 | 265 | 529 |
| 7.333 | 56 | 0.23 | $M_2$ | 8 | 11 | | | | | | | | |
| | | | c | 4.7 | 3.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 552 | 552 | | | | | | | | |
| | | | $n_{2\,th}$ | 552 | 552 | | | | | | | | |
| 7.333 | 83 | 0.23 | $M_2$ | | | 16 | 22 | 27 | 32 | | | | |
| | | | c | | | 3.6 | 2.8 | 2.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | | | 552 | 511 | 552 | 552 | | | | |
| | | | $n_{2\,th}$ | | | 552 | 511 | 552 | 552 | | | | |
| 8.900 | 57 | 0.17 | $M_2$ | 10 | 13 | | | | | | | | |
| | | | c | 3.9 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 455 | 455 | | | | | | | | |
| | | | $n_{2\,th}$ | 455 | 455 | | | | | | | | |
| 8.900 | 84 | 0.17 | $M_2$ | | | 20 | 27 | 33 | 39 | | | | |
| | | | c | | | 3.0 | 2.3 | 1.8 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | | | 455 | 421 | 455 | 455 | | | | |
| | | | $n_{2\,th}$ | | | 455 | 421 | 455 | 455 | | | | |
| 11.250 | 56 | 0.11 | $M_2$ | 13 | 16 | | | | | | | | |
| | | | c | 3.1 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 360 | 360 | | | | | | | | |
| | | | $n_{2\,th}$ | 360 | 360 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 105$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST06-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 33<br>2.2<br>774<br>774 | 60<br>1.5<br>428<br>428 | 49<br>1.5<br>889<br>848 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.48 | 100 | 4.556 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.36 | 54 | 5.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.36 | 81 | 5.667 |
| 41<br>1.9<br>622<br>622 | 75<br>1.3<br>344<br>344 | 61<br>1.2<br>715<br>715 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.36 | 104 | 5.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.23 | 56 | 7.333 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.23 | 83 | 7.333 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.17 | 57 | 8.900 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.17 | 84 | 8.900 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.11 | 56 | 11.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

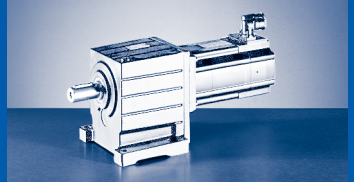
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 366$ Nm

| GST06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 3.033 | 166 | 2.72 | $M_2$ | | | | | | | | | 28 | 22 |
| | | | c | | | | | | | | | 5.7 | 5.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 495 | 989 |
| | | | $n_{2\,th}$ | | | | | | | | | 495 | 862 |
| 3.333 | 174 | 2.61 | $M_2$ | | | | | | | | | 31 | 25 |
| | | | c | | | | | | | | | 5.4 | 5.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 450 | 900 |
| | | | $n_{2\,th}$ | | | | | | | | | 450 | 777 |
| 4.160 | 191 | 2.51 | $M_2$ | | | | | | | | | 39 | 31 |
| | | | c | | | | | | | | | 4.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 361 | 721 |
| | | | $n_{2\,th}$ | | | | | | | | | 361 | 703 |
| 4.571 | 200 | 2.41 | $M_2$ | | | | | | | | | 43 | 34 |
| | | | c | | | | | | | | | 4.5 | 4.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 328 | 656 |
| | | | $n_{2\,th}$ | | | | | | | | | 328 | 634 |
| 5.324 | 161 | 1.76 | $M_2$ | | | | | 19 | 22 | | | | |
| | | | c | | | | | 5.9 | 5.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 761 | 761 | | | | |
| | | | $n_{2\,th}$ | | | | | 663 | 643 | | | | |
| 5.324 | 207 | 1.76 | $M_2$ | | | | | | | | | 50 | 40 |
| | | | c | | | | | | | | | 4.0 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 282 | 564 |
| | | | $n_{2\,th}$ | | | | | | | | | 282 | 564 |
| 5.850 | 177 | 1.71 | $M_2$ | | | | | 20 | 24 | | | | |
| | | | c | | | | | 5.9 | 5.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 692 | 692 | | | | |
| | | | $n_{2\,th}$ | | | | | 604 | 585 | | | | |
| 5.850 | 222 | 1.71 | $M_2$ | | | | | | | | | 55 | 44 |
| | | | c | | | | | | | | | 3.9 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 256 | 513 |
| | | | $n_{2\,th}$ | | | | | | | | | 256 | 513 |
| 6.400 | 185 | 1.47 | $M_2$ | | | | | 22 | 27 | | | | |
| | | | c | | | | | 5.6 | 4.8 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 633 | 633 | | | | |
| | | | $n_{2\,th}$ | | | | | 564 | 547 | | | | |
| 6.400 | 229 | 1.47 | $M_2$ | | | | | | | | | 60 | 48 |
| | | | c | | | | | | | | | 3.7 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 234 | 469 |
| | | | $n_{2\,th}$ | | | | | | | | | 234 | 469 |
| 7.040 | 236 | 2.07 | $M_2$ | | | | | | | 36 | 28 | 67 | 53 |
| | | | c | | | | | | | 5.8 | 5.8 | 3.5 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | | | 277 | 575 | 213 | 426 |
| | | | $n_{2\,th}$ | | | | | | | 277 | 432 | 213 | 390 |
| 8.163 | 199 | 1.06 | $M_2$ | | | | 23 | 29 | 35 | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | 459 | 496 | 496 | | | | |
| | | | $n_{2\,th}$ | | | | 459 | 471 | 458 | | | | |
| 8.163 | 252 | 1.06 | $M_2$ | | | | | | | 42 | 33 | 77 | 62 |
| | | | c | | | | | | | 5.3 | 5.3 | 3.2 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 239 | 496 | 184 | 368 |
| | | | $n_{2\,th}$ | | | | | | | 239 | 480 | 184 | 368 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 366$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 21 | 39 | 31 | | 21 | 46 | 40 | 67 | 50 | 87 | 61 | $M_2$ | 2.72 | 166 | 3.033 |
| 5.7 | 3.8 | 3.7 | | 5.6 | 3.5 | 3.1 | 2.5 | 2.6 | 1.9 | 2.1 | c | | | |
| 1162 | 643 | 1335 | | 1187 | 495 | 1063 | 495 | 1063 | 445 | 1063 | $n_{2\,Eck}$ | | | |
| 864 | 643 | 791 | | 862 | 495 | 764 | 495 | 729 | 445 | 696 | $n_{2\,th}$ | | | |
| 23 | 42 | 35 | 28 | 23 | 50 | 44 | 73 | 55 | 96 | 67 | $M_2$ | 2.61 | 174 | 3.333 |
| 5.4 | 3.7 | 3.5 | 5.9 | 5.4 | 3.4 | 3.0 | 2.3 | 2.4 | 1.8 | 2.0 | c | | | |
| 1058 | 585 | 1215 | 450 | 1080 | 450 | 968 | 450 | 968 | 405 | 968 | $n_{2\,Eck}$ | | | |
| 778 | 585 | 713 | 450 | 777 | 450 | 687 | 450 | 656 | 405 | 628 | $n_{2\,th}$ | | | |
| 29 | 53 | 43 | 36 | 29 | 63 | 56 | 92 | 69 | 120 | 84 | $M_2$ | 2.51 | 191 | 4.160 |
| 4.8 | 3.2 | 3.1 | 5.2 | 4.7 | 3.0 | 2.6 | 2.1 | 2.1 | 1.6 | 1.8 | c | | | |
| 847 | 469 | 974 | 361 | 865 | 361 | 775 | 361 | 775 | 325 | 775 | $n_{2\,Eck}$ | | | |
| 705 | 469 | 646 | 361 | 704 | 361 | 623 | 361 | 595 | 325 | 545 | $n_{2\,th}$ | | | |
| 32 | 59 | 48 | 39 | 32 | 70 | 61 | 101 | 75 | 132 | 93 | $M_2$ | 2.41 | 200 | 4.571 |
| 4.5 | 3.1 | 2.9 | 4.9 | 4.5 | 2.8 | 2.5 | 2.0 | 2.0 | 1.5 | 1.7 | c | | | |
| 771 | 427 | 886 | 328 | 788 | 328 | 706 | 328 | 706 | 295 | 706 | $n_{2\,Eck}$ | | | |
| 635 | 427 | 582 | 328 | 634 | 328 | 561 | 328 | 535 | 295 | 482 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.76 | 161 | 5.324 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 38 | 68 | 56 | 46 | 38 | 81 | 71 | 118 | 88 | 154 | 108 | $M_2$ | 1.76 | 207 | 5.324 |
| 4.0 | 2.7 | 2.6 | 4.4 | 4.0 | 2.5 | 2.2 | 1.8 | 1.8 | 1.3 | 1.5 | c | | | |
| 662 | 366 | 761 | 282 | 676 | 282 | 606 | 282 | 606 | 254 | 606 | $n_{2\,Eck}$ | | | |
| 617 | 366 | 566 | 282 | 617 | 282 | 546 | 282 | 505 | 254 | 450 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.71 | 177 | 5.850 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 41 | 75 | 61 | 50 | 41 | 89 | 79 | 130 | 97 | 170 | 119 | $M_2$ | 1.71 | 222 | 5.850 |
| 3.9 | 2.7 | 2.6 | 4.3 | 3.9 | 2.4 | 2.2 | 1.7 | 1.8 | 1.3 | 1.4 | c | | | |
| 603 | 333 | 692 | 256 | 615 | 256 | 551 | 256 | 551 | 231 | 551 | $n_{2\,Eck}$ | | | |
| 559 | 333 | 512 | 256 | 558 | 256 | 494 | 256 | 452 | 231 | 404 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.47 | 185 | 6.400 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 45 | 83 | 67 | 55 | 45 | 98 | 86 | 142 | 106 | 186 | 130 | $M_2$ | 1.47 | 229 | 6.400 |
| 3.7 | 2.5 | 2.4 | 4.0 | 3.7 | 2.3 | 2.0 | 1.6 | 1.7 | 1.2 | 1.4 | c | | | |
| 551 | 305 | 633 | 234 | 563 | 234 | 504 | 234 | 504 | 211 | 504 | $n_{2\,Eck}$ | | | |
| 522 | 305 | 479 | 234 | 522 | 234 | 463 | 234 | 417 | 211 | 375 | $n_{2\,th}$ | | | |
| 50 | 91 | 74 | 61 | 50 | 108 | 95 | 156 | 117 | 205 | 143 | $M_2$ | 2.07 | 236 | 7.040 |
| 3.5 | 2.4 | 2.3 | 3.8 | 3.4 | 2.2 | 1.9 | 1.5 | 1.6 | 1.2 | 1.3 | c | | | |
| 501 | 277 | 575 | 213 | 511 | 213 | 458 | 213 | 458 | 192 | 458 | $n_{2\,Eck}$ | | | |
| 391 | 277 | 356 | 213 | 390 | 213 | 340 | 213 | 302 | 192 | 273 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.06 | 199 | 8.163 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 58 | 106 | 86 | 71 | 58 | 125 | 110 | 181 | 136 | 237 | 166 | $M_2$ | 1.06 | 252 | 8.163 |
| 3.2 | 2.2 | 2.1 | 3.5 | 3.2 | 2.0 | 1.8 | 1.4 | 1.4 | 1.1 | 1.2 | c | | | |
| 432 | 239 | 496 | 184 | 441 | 184 | 395 | 184 | 395 | 165 | 395 | $n_{2\,Eck}$ | | | |
| 432 | 239 | 406 | 184 | 439 | 184 | 380 | 184 | 344 | 165 | 316 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

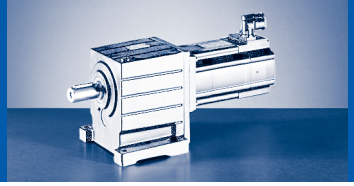
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 366$ Nm

| GST06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 9.010 | 261 | 1.50 | $M_2$ | | | | | 32 | 38 | 46 | 36 | 86 | 69 |
| | | | c | | | | | 5.6 | 4.8 | 5.0 | 5.0 | 3.0 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | 450 | 450 | 216 | 450 | 167 | 333 |
| | | | $n_{2\,th}$ | | | | | 389 | 377 | 216 | 380 | 166 | 333 |
| 10.000 | 209 | 0.82 | $M_2$ | | | | 29 | 36 | 43 | | | | |
| | | | c | | | | 5.1 | 4.1 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | | | | 375 | 405 | 405 | | | | |
| | | | $n_{2\,th}$ | | | | 375 | 405 | 405 | | | | |
| 10.000 | 269 | 0.82 | $M_2$ | | | | | | | 51 | 40 | 95 | 76 |
| | | | c | | | | | | | 4.6 | 4.6 | 2.8 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | 195 | 405 | 150 | 300 |
| | | | $n_{2\,th}$ | | | | | | | 195 | 405 | 150 | 300 |
| 11.200 | 280 | 1.26 | $M_2$ | | | | | 40 | 47 | 58 | 45 | 107 | 86 |
| | | | c | | | | | 4.9 | 4.1 | 4.3 | 4.3 | 2.6 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | | 362 | 362 | 174 | 362 | 134 | 268 |
| | | | $n_{2\,th}$ | | | | | 314 | 304 | 174 | 307 | 134 | 268 |
| 12.571 | 295 | 0.96 | $M_2$ | | | | 36 | 45 | 53 | 65 | 51 | 120 | 96 |
| | | | c | | | | 5.8 | 4.6 | 3.9 | 4.0 | 4.0 | 2.4 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 298 | 322 | 322 | 155 | 322 | 119 | 239 |
| | | | $n_{2\,th}$ | | | | 298 | 304 | 295 | 155 | 298 | 119 | 239 |
| 14.286 | 307 | 0.93 | $M_2$ | | | | 41 | 51 | 61 | 74 | 58 | 137 | 110 |
| | | | c | | | | 5.3 | 4.2 | 3.5 | 3.7 | 3.7 | 2.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 263 | 284 | 284 | 137 | 284 | 105 | 210 |
| | | | $n_{2\,th}$ | | | | 263 | 264 | 256 | 137 | 258 | 105 | 210 |
| 15.400 | 318 | 0.75 | $M_2$ | | | | 44 | 55 | 65 | 80 | 62 | 148 | 118 |
| | | | c | | | | 5.8 | 4.6 | 3.9 | 3.9 | 4.0 | 2.1 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 244 | 263 | 263 | 127 | 263 | 97 | 195 |
| | | | $n_{2\,th}$ | | | | 244 | 263 | 263 | 127 | 263 | 97 | 195 |
| 17.500 | 313 | 0.73 | $M_2$ | | | | 50 | 63 | 75 | 91 | 71 | 168 | 134 |
| | | | c | | | | 5.0 | 4.0 | 3.3 | 3.4 | 3.5 | 1.8 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 214 | 231 | 231 | 111 | 231 | 86 | 171 |
| | | | $n_{2\,th}$ | | | | 214 | 231 | 231 | 111 | 231 | 86 | 171 |
| 20.044 | 336 | 0.46 | $M_2$ | | | | 58 | 72 | 86 | | | | |
| | | | c | | | | 4.7 | 3.7 | 3.1 | | | | |
| | | | $n_{2\,Eck}$ | | | | 187 | 202 | 202 | | | | |
| | | | $n_{2\,th}$ | | | | 187 | 202 | 202 | | | | |
| 20.044 | 350 | 0.46 | $M_2$ | | | | | | | 104 | 82 | 193 | 154 |
| | | | c | | | | | | | 3.3 | 3.4 | 1.8 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | | | 97 | 202 | 75 | 150 |
| | | | $n_{2\,th}$ | | | | | | | 97 | 202 | 75 | 150 |
| 22.778 | 315 | 0.45 | $M_2$ | | | 49 | 66 | 82 | 98 | 120 | 93 | 220 | 176 |
| | | | c | | | 5.1 | 3.9 | 3.1 | 2.6 | 2.6 | 2.7 | 1.4 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 178 | 165 | 178 | 178 | 86 | 178 | 66 | 132 |
| | | | $n_{2\,th}$ | | | 178 | 165 | 178 | 178 | 86 | 178 | 66 | 132 |
| 24.933 | 236 | 0.33 | $M_2$ | | 35 | | | | | | | | |
| | | | c | | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 162 | | | | | | | | |
| | | | $n_{2\,th}$ | | 162 | | | | | | | | |
| 24.933 | 349 | 0.33 | $M_2$ | | | 53 | 73 | 90 | 107 | | | | |
| | | | c | | | 5.1 | 3.9 | 3.1 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | | | 162 | 150 | 162 | 162 | | | | |
| | | | $n_{2\,th}$ | | | 162 | 150 | 162 | 162 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 366$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 64 | 117 | 95 | 79 | 64 | 139 | 122 | 200 | 150 | | 183 | $M_2$ | 1.50 | 261 | 9.010 |
| 3.0 | 2.0 | 2.0 | 3.2 | 3.0 | 1.9 | 1.7 | 1.3 | 1.4 | | 1.1 | c | | | |
| 391 | 216 | 450 | 167 | 400 | 167 | 358 | 167 | 358 | | 358 | $n_{2\,Eck}$ | | | |
| 344 | 216 | 312 | 166 | 343 | 166 | 283 | 166 | 253 | | 229 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.82 | 209 | 10.000 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 71 | 130 | 106 | 87 | 71 | 154 | 135 | 223 | 166 | | 204 | $M_2$ | 0.82 | 269 | 10.000 |
| 2.8 | 1.9 | 1.8 | 3.0 | 2.8 | 1.7 | 1.5 | 1.2 | 1.3 | | 1.0 | c | | | |
| 353 | 195 | 405 | 150 | 360 | 150 | 323 | 150 | 323 | | 323 | $n_{2\,Eck}$ | | | |
| 353 | 195 | 370 | 150 | 359 | 150 | 323 | 150 | 306 | | 280 | $n_{2\,th}$ | | | |
| 80 | 146 | 119 | 98 | 80 | 173 | 151 | 250 | 187 | | | $M_2$ | 1.26 | 280 | 11.200 |
| 2.6 | 1.8 | 1.7 | 2.8 | 2.6 | 1.6 | 1.4 | 1.1 | 1.2 | | | c | | | |
| 315 | 174 | 362 | 134 | 321 | 134 | 288 | 134 | 288 | | | $n_{2\,Eck}$ | | | |
| 278 | 174 | 240 | 134 | 278 | 134 | 220 | 134 | 199 | | | $n_{2\,th}$ | | | |
| 90 | 164 | 133 | 110 | 90 | 194 | 170 | 280 | 210 | | | $M_2$ | 0.96 | 295 | 12.571 |
| 2.4 | 1.6 | 1.6 | 2.6 | 2.4 | 1.5 | 1.3 | 1.1 | 1.1 | | | c | | | |
| 280 | 155 | 322 | 119 | 286 | 119 | 257 | 119 | 257 | | | $n_{2\,Eck}$ | | | |
| 272 | 155 | 234 | 119 | 271 | 119 | 217 | 119 | 199 | | | $n_{2\,th}$ | | | |
| 103 | 186 | 152 | 126 | 103 | 221 | 194 | | | | | $M_2$ | 0.93 | 307 | 14.286 |
| 2.2 | 1.5 | 1.4 | 2.4 | 2.2 | 1.4 | 1.2 | | | | | c | | | |
| 247 | 137 | 284 | 105 | 252 | 105 | 226 | | | | | $n_{2\,Eck}$ | | | |
| 235 | 137 | 197 | 105 | 235 | 105 | 184 | | | | | $n_{2\,th}$ | | | |
| 110 | 201 | 163 | 136 | 110 | 238 | 208 | | 257 | | | $M_2$ | 0.75 | 318 | 15.400 |
| 2.4 | 1.6 | 1.6 | 2.3 | 2.4 | 1.3 | 1.3 | | 1.1 | | | c | | | |
| 229 | 127 | 263 | 97 | 234 | 97 | 209 | | 209 | | | $n_{2\,Eck}$ | | | |
| 229 | 127 | 223 | 97 | 233 | 97 | 205 | | 187 | | | $n_{2\,th}$ | | | |
| 126 | 228 | 186 | 155 | 126 | 271 | 237 | | | | | $M_2$ | 0.73 | 313 | 17.500 |
| 2.1 | 1.4 | 1.4 | 2.0 | 2.1 | 1.2 | 1.2 | | | | | c | | | |
| 201 | 111 | 231 | 86 | 206 | 86 | 184 | | | | | $n_{2\,Eck}$ | | | |
| 201 | 111 | 183 | 86 | 205 | 86 | 169 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.46 | 336 | 20.044 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 144 | 262 | 213 | | | | | | | | | $M_2$ | 0.46 | 350 | 20.044 |
| 2.1 | 1.3 | 1.3 | | | | | | | | | c | | | |
| 176 | 97 | 202 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 176 | 97 | 186 | | | | | | | | | $n_{2\,th}$ | | | |
| 165 | 298 | 243 | | | | | | | | | $M_2$ | 0.45 | 315 | 22.778 |
| 1.6 | 1.1 | 1.1 | | | | | | | | | c | | | |
| 155 | 86 | 178 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 155 | 86 | 150 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.33 | 236 | 24.933 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.33 | 349 | 24.933 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

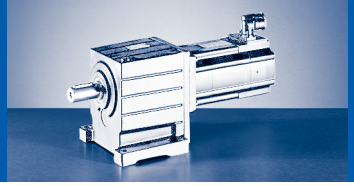
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 366$ Nm

| GST06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 24.933 | 360 | 0.33 | $M_2$ | | | | | | | 131 | 102 | 241 | 192 |
| | | | c | | | | | | | 2.7 | 2.8 | 1.5 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | | | | 78 | 162 | 60 | 120 |
| | | | $n_{2\,th}$ | | | | | | | 78 | 162 | 60 | 120 |
| 28.333 | 268 | 0.33 | $M_2$ | | 39 | | | | | | | | |
| | | | c | | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 143 | | | | | | | | |
| | | | $n_{2\,th}$ | | 143 | | | | | | | | |
| 28.333 | 317 | 0.33 | $M_2$ | | | 61 | 83 | 103 | 122 | 149 | 117 | 274 | 219 |
| | | | c | | | 4.1 | 3.1 | 2.5 | 2.1 | 2.1 | 2.2 | 1.2 | 1.3 |
| | | | $n_{2\,Eck}$ | | | 143 | 132 | 143 | 143 | 69 | 143 | 53 | 106 |
| | | | $n_{2\,th}$ | | | 143 | 132 | 143 | 143 | 69 | 143 | 53 | 106 |
| 32.267 | 245 | 0.22 | $M_2$ | 36 | 45 | | | | | | | | |
| | | | c | 5.3 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 126 | 126 | | | | | | | | |
| | | | $n_{2\,th}$ | 126 | 126 | | | | | | | | |
| 32.267 | 362 | 0.22 | $M_2$ | | | 70 | 95 | 117 | 139 | | | | |
| | | | c | | | 4.1 | 3.1 | 2.5 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | | | 126 | 116 | 126 | 126 | | | | |
| | | | $n_{2\,th}$ | | | 126 | 116 | 126 | 126 | | | | |
| 36.667 | 278 | 0.22 | $M_2$ | 41 | 52 | | | | | | | | |
| | | | c | 5.3 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 111 | 111 | | | | | | | | |
| | | | $n_{2\,th}$ | 110 | 110 | | | | | | | | |
| 36.667 | 322 | 0.22 | $M_2$ | | | 80 | 109 | 134 | 159 | | | | |
| | | | c | | | 3.2 | 2.4 | 1.9 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | | | 111 | 102 | 111 | 111 | | | | |
| | | | $n_{2\,th}$ | | | 110 | 102 | 110 | 110 | | | | |
| 39.160 | 247 | 0.16 | $M_2$ | 44 | 55 | | | | | | | | |
| | | | c | 4.4 | 3.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 103 | 103 | | | | | | | | |
| | | | $n_{2\,th}$ | 103 | 103 | | | | | | | | |
| 39.160 | 366 | 0.16 | $M_2$ | | | 85 | 116 | 143 | 170 | | | | |
| | | | c | | | 3.4 | 2.6 | 2.1 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | | | 103 | 96 | 103 | 103 | | | | |
| | | | $n_{2\,th}$ | | | 103 | 96 | 103 | 103 | | | | |
| 44.500 | 281 | 0.16 | $M_2$ | 50 | 63 | | | | | | | | |
| | | | c | 4.9 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 91 | 91 | | | | | | | | |
| | | | $n_{2\,th}$ | 91 | 91 | | | | | | | | |
| 44.500 | 325 | 0.16 | $M_2$ | | | 97 | 132 | 163 | 193 | | | | |
| | | | c | | | 3.0 | 2.3 | 1.8 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | | | 91 | 84 | 91 | 91 | | | | |
| | | | $n_{2\,th}$ | | | 91 | 84 | 91 | 91 | | | | |
| 49.500 | 245 | 0.11 | $M_2$ | 56 | 71 | | | | | | | | |
| | | | c | 3.8 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 82 | 82 | | | | | | | | |
| | | | $n_{2\,th}$ | 82 | 82 | | | | | | | | |
| 56.250 | 278 | 0.11 | $M_2$ | 64 | 80 | | | | | | | | |
| | | | c | 3.8 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 72 | 72 | | | | | | | | |
| | | | $n_{2\,th}$ | 72 | 72 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 366$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 180<br>1.7<br>141<br>141 | 326<br>1.1<br>78<br>78 | 266<br>1.1<br>162<br>162 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 360 | 24.933 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 268 | 28.333 |
| 206<br>1.3<br>124<br>124 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 317 | 28.333 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.22 | 245 | 32.267 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.22 | 362 | 32.267 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.22 | 278 | 36.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.22 | 322 | 36.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 247 | 39.160 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 366 | 39.160 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 281 | 44.500 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.16 | 325 | 44.500 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.11 | 245 | 49.500 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.11 | 278 | 56.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

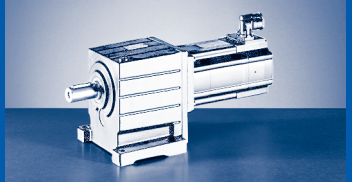
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 375$ Nm

| GST06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 39.200 | 321 | 0.36 | $M_2$ | | 43 | 54 | 84 | 115 | 141 | 168 |
| | | | c | | 5.8 | 4.7 | 3.0 | 2.3 | 1.8 | 1.6 |
| | | | $n_{2\,Eck}$ | | 103 | 103 | 103 | 96 | 103 | 103 |
| | | | $n_{2\,th}$ | | 103 | 103 | 103 | 96 | 103 | 103 |
| 44.000 | 335 | 0.20 | $M_2$ | | | 61 | 95 | 128 | 158 | 188 |
| | | | c | | | 4.8 | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 92 | 92 | 85 | 92 | 92 |
| | | | $n_{2\,th}$ | | | 92 | 92 | 85 | 92 | 92 |
| 51.022 | 325 | 0.32 | $M_2$ | | 56 | 71 | 110 | 150 | 184 | 219 |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 79 | 79 | 79 | 74 | 79 | 79 |
| | | | $n_{2\,th}$ | | 79 | 79 | 79 | 74 | 79 | 79 |
| 53.900 | 349 | 0.18 | $M_2$ | | 59 | 75 | 116 | 158 | 194 | 231 |
| | | | c | | 5.1 | 4.1 | 2.7 | 2.0 | 1.6 | 1.4 |
| | | | $n_{2\,Eck}$ | | 75 | 75 | 75 | 70 | 75 | 75 |
| | | | $n_{2\,th}$ | | 75 | 75 | 75 | 70 | 75 | 75 |
| 67.760 | 365 | 0.11 | $M_2$ | | 75 | 95 | | | | |
| | | | c | | 4.3 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | | 60 | 60 | | | | |
| | | | $n_{2\,th}$ | | 60 | 60 | | | | |
| 70.156 | 359 | 0.16 | $M_2$ | | 78 | 98 | 152 | 207 | 254 | 301 |
| | | | c | | 4.0 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 58 | 58 | 58 | 54 | 58 | 58 |
| | | | $n_{2\,th}$ | | 58 | 58 | 58 | 53 | 58 | 58 |
| 80.952 | 332 | 0.20 | $M_2$ | | 91 | 114 | 177 | 239 | 294 | |
| | | | c | | 3.2 | 2.6 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 50 | 50 | 50 | 46 | 50 | |
| | | | $n_{2\,th}$ | | 50 | 50 | 50 | 46 | 50 | |
| 87.267 | 370 | 0.15 | $M_2$ | | 98 | 123 | 190 | 258 | 317 | |
| | | | c | | 3.3 | 2.7 | 1.7 | 1.3 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 46 | 46 | 46 | 43 | 46 | |
| | | | $n_{2\,th}$ | | 46 | 46 | 46 | 43 | 46 | |
| 99.167 | 336 | 0.15 | $M_2$ | 54 | 112 | 140 | 217 | 294 | | |
| | | | c | 5.3 | 2.7 | 2.1 | 1.4 | 1.1 | | |
| | | | $n_{2\,Eck}$ | 41 | 41 | 41 | 41 | 38 | | |
| | | | $n_{2\,th}$ | 41 | 41 | 41 | 41 | 38 | | |
| 109.707 | 375 | 0.10 | $M_2$ | 60 | 124 | 155 | | | | |
| | | | c | 5.4 | 2.7 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 37 | 37 | 37 | | | | |
| | | | $n_{2\,th}$ | 37 | 37 | 37 | | | | |
| 124.667 | 339 | 0.10 | $M_2$ | 69 | 141 | 177 | | | | |
| | | | c | 4.3 | 2.2 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 33 | 33 | 33 | | | | |
| | | | $n_{2\,th}$ | 32 | 32 | 32 | | | | |
| 141.289 | 375 | 0.06 | $M_2$ | 78 | 160 | 201 | | | | |
| | | | c | 4.2 | 2.1 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 29 | 29 | 29 | | | | |
| | | | $n_{2\,th}$ | 29 | 29 | 29 | | | | |
| 160.556 | 342 | 0.06 | $M_2$ | 90 | 183 | 229 | | | | |
| | | | c | 3.4 | 1.7 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 25 | 25 | 25 | | | | |
| | | | $n_{2\,th}$ | 25 | 25 | 25 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

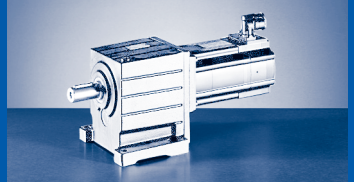


## $M_{2\,GN} \leq 196$ Nm

| GST07-1S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 1.625 | 106 | 6.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 2.000 | 99 | 4.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 19<br>5.0<br>750<br>750 | 15<br>5.0<br>1500<br>1422 | 14<br>5.1<br>1763<br>1425 | 26<br>3.4<br>975<br>975 | 21<br>3.3<br>2025<br>1303 | |
| 2.000 | 124 | 4.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 2.240 | 105 | 4.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 21<br>4.8<br>670<br>670 | 17<br>4.7<br>1339<br>1306 | 16<br>4.8<br>1574<br>1308 | 29<br>3.2<br>871<br>871 | 24<br>3.1<br>1808<br>1199 | |
| 2.240 | 135 | 4.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 2.857 | 88 | 2.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 10<br>5.9<br>1418<br>1243 | 12<br>5.0<br>1418<br>1206 | | | | | | | | |
| 2.857 | 113 | 2.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 27<br>4.0<br>525<br>525 | 22<br>4.0<br>1050<br>1050 | 20<br>4.0<br>1234<br>1158 | 37<br>2.7<br>683<br>683 | 30<br>2.6<br>1418<br>1062 | |
| 2.857 | 156 | 2.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 3.500 | 119 | 2.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 18<br>5.7<br>557<br>557 | 14<br>5.8<br>1157<br>1093 | 34<br>3.5<br>429<br>429 | 27<br>3.4<br>857<br>857 | 25<br>3.5<br>1007<br>1000 | 46<br>2.3<br>557<br>557 | 37<br>2.3<br>1157<br>922 | |
| 3.500 | 172 | 2.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 30<br>5.4<br>429<br>429 |
| 4.556 | 96 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 13<br>5.1<br>823<br>823 | 17<br>4.1<br>889<br>889 | 20<br>3.4<br>889<br>889 | | | | | | | | |
| 4.556 | 124 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 24<br>4.6<br>428<br>428 | 19<br>4.6<br>889<br>889 | 44<br>2.8<br>329<br>329 | 35<br>2.7<br>659<br>659 | 33<br>2.8<br>774<br>774 | 60<br>1.9<br>428<br>428 | 49<br>1.8<br>889<br>804 | |
| 4.556 | 186 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 40<br>4.5<br>329<br>329 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 196$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | 25 | 22 | 36 | 27 | 47 | 33 | 43 | 33 | 64 | 46 | 81 | 51 | $M_2$ | 6.12 | 106 | 1.625 |
| | 4.1 | 3.7 | 2.9 | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 1.7 | 1.8 | 1.3 | 1.6 | c | | | |
| | 923 | 1985 | 923 | 1985 | 831 | 1985 | 877 | 1846 | 877 | 1846 | 831 | 1846 | $n_{2\,Eck}$ | | | |
| | 923 | 1451 | 923 | 1387 | 831 | 1324 | 877 | 1331 | 877 | 1196 | 831 | 1128 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 4.78 | 99 | 2.000 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 31 | 27 | 45 | 33 | 58 | 41 | 52 | 41 | 78 | 57 | 100 | 63 | $M_2$ | 4.78 | 124 | 2.000 |
| | 3.9 | 3.5 | 2.7 | 2.8 | 2.1 | 2.3 | 2.3 | 2.4 | 1.6 | 1.7 | 1.2 | 1.6 | c | | | |
| | 750 | 1613 | 750 | 1613 | 675 | 1613 | 713 | 1500 | 713 | 1500 | 675 | 1500 | $n_{2\,Eck}$ | | | |
| | 750 | 1319 | 750 | 1260 | 675 | 1203 | 713 | 1105 | 713 | 1065 | 675 | 1006 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 4.02 | 105 | 2.240 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 34 | 30 | 50 | 37 | 65 | 46 | 59 | 46 | 88 | 64 | 112 | 70 | $M_2$ | 4.02 | 135 | 2.240 |
| | 3.8 | 3.4 | 2.7 | 2.8 | 2.0 | 2.3 | 2.3 | 2.3 | 1.5 | 1.7 | 1.2 | 1.5 | c | | | |
| | 670 | 1440 | 670 | 1440 | 603 | 1440 | 636 | 1339 | 636 | 1339 | 603 | 1339 | $n_{2\,Eck}$ | | | |
| | 670 | 1220 | 670 | 1167 | 603 | 1117 | 636 | 987 | 636 | 984 | 603 | 932 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 2.69 | 88 | 2.857 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 2.69 | 113 | 2.857 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 20 | 44 | 39 | 64 | 48 | 84 | 58 | | | | | | | $M_2$ | 2.69 | 156 | 2.857 |
| 5.5 | 3.5 | 3.1 | 2.4 | 2.5 | 1.9 | 2.1 | | | | | | | c | | | |
| 1260 | 525 | 1129 | 525 | 1129 | 473 | 1129 | | | | | | | $n_{2\,Eck}$ | | | |
| 1229 | 525 | 1098 | 525 | 1051 | 473 | 1007 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 2.15 | 119 | 3.500 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 25 | 54 | 47 | 78 | 59 | 103 | 72 | | | | | | | $M_2$ | 2.15 | 172 | 3.500 |
| 5.0 | 3.1 | 2.8 | 2.2 | 2.3 | 1.7 | 1.8 | | | | | | | c | | | |
| 1029 | 429 | 921 | 429 | 921 | 386 | 921 | | | | | | | $n_{2\,Eck}$ | | | |
| 1026 | 429 | 921 | 429 | 921 | 386 | 865 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.37 | 96 | 4.556 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.37 | 124 | 4.556 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 33 | 71 | 62 | 102 | 77 | 134 | 94 | | | | | | | $M_2$ | 1.37 | 186 | 4.556 |
| 4.1 | 2.6 | 2.3 | 1.8 | 1.9 | 1.4 | 1.5 | | | | | | | c | | | |
| 790 | 329 | 708 | 329 | 708 | 296 | 708 | | | | | | | $n_{2\,Eck}$ | | | |
| 788 | 329 | 708 | 329 | 708 | 296 | 708 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

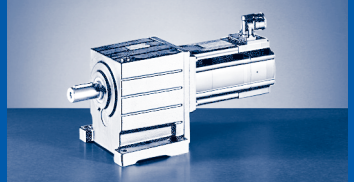
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 196$ Nm

| GST07-1S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 5.583 | 101 | 1.05 | $M_2$ | 12 | 16 | 20 | 24 | | | | | | | | |
| | | | c | 5.7 | 4.4 | 3.5 | 2.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 725 | 672 | 725 | 725 | | | | | | | | |
| | | | $n_{2\,th}$ | 725 | 672 | 725 | 725 | | | | | | | | |
| 5.583 | 130 | 1.05 | $M_2$ | | | | | 29 | 23 | 54 | 43 | 41 | 74 | 60 | |
| | | | c | | | | | 3.9 | 4.0 | 2.4 | 2.4 | 2.4 | 1.6 | 1.5 | |
| | | | $n_{2\,Eck}$ | | | | | 349 | 725 | 269 | 537 | 631 | 349 | 725 | |
| | | | $n_{2\,th}$ | | | | | 349 | 725 | 269 | 537 | 631 | 349 | 682 | |
| 5.583 | 196 | 1.05 | $M_2$ | | | | | | | | | | | | 49 |
| | | | c | | | | | | | | | | | | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 269 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 269 |
| 7.333 | 104 | 0.66 | $M_2$ | 16 | 22 | 27 | 32 | | | | | | | | |
| | | | c | 4.5 | 3.4 | 2.7 | 2.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 552 | 511 | 552 | 552 | | | | | | | | |
| | | | $n_{2\,th}$ | 552 | 511 | 552 | 552 | | | | | | | | |
| 7.333 | 134 | 0.66 | $M_2$ | | | | | 39 | 30 | 72 | 57 | 54 | 97 | 79 | |
| | | | c | | | | | 3.1 | 3.1 | 1.9 | 1.8 | 1.9 | 1.3 | 1.2 | |
| | | | $n_{2\,Eck}$ | | | | | 266 | 552 | 205 | 409 | 481 | 266 | 552 | |
| | | | $n_{2\,th}$ | | | | | 266 | 552 | 205 | 409 | 481 | 266 | 552 | |
| 8.900 | 105 | 0.49 | $M_2$ | 20 | 27 | 33 | 39 | | | | | | | | |
| | | | c | 3.7 | 2.9 | 2.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 455 | 421 | 455 | 455 | | | | | | | | |
| | | | $n_{2\,th}$ | 455 | 421 | 455 | 455 | | | | | | | | |
| 8.900 | 135 | 0.49 | $M_2$ | | | | | 47 | 37 | 87 | 70 | 65 | 118 | 96 | |
| | | | c | | | | | 2.6 | 2.6 | 1.5 | 1.5 | 1.6 | 1.1 | 1.0 | |
| | | | $n_{2\,Eck}$ | | | | | 219 | 455 | 169 | 337 | 396 | 219 | 455 | |
| | | | $n_{2\,th}$ | | | | | 219 | 455 | 169 | 337 | 396 | 219 | 455 | |
| 11.250 | 106 | 0.32 | $M_2$ | 25 | 34 | 42 | 50 | | | | | | | | |
| | | | c | 3.0 | 2.3 | 1.8 | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 360 | 333 | 360 | 360 | | | | | | | | |
| | | | $n_{2\,th}$ | 360 | 333 | 360 | 360 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 196$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.05 | 101 | 5.583 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.05 | 130 | 5.583 |
| 40<br>3.6<br>645<br>643 | 87<br>2.2<br>269<br>269 | 76<br>2.0<br>578<br>578 | 126<br>1.6<br>269<br>269 | 94<br>1.6<br>578<br>578 | 165<br>1.2<br>242<br>242 | 115<br>1.3<br>578<br>578 | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.05 | 196 | 5.583 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.66 | 104 | 7.333 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.66 | 134 | 7.333 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 105 | 8.900 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 135 | 8.900 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.32 | 106 | 11.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

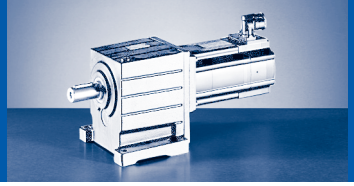
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 706$ Nm

| GST07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 3.048 | 304 | 8.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 3.048 | 351 | 8.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 3.350 | 334 | 7.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 3.350 | 367 | 7.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.225 | 373 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.225 | 398 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.643 | 410 | 7.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.643 | 414 | 7.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.200 | 254 | 5.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 48<br>5.0<br>289<br>288 | 39<br>5.0<br>577<br>547 | 36<br>5.1<br>678<br>548 | 66<br>3.4<br>375<br>375 | 54<br>3.3<br>779<br>501 | |
| 5.200 | 399 | 5.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.200 | 427 | 5.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.714 | 279 | 5.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 53<br>5.0<br>263<br>263 | 43<br>5.0<br>525<br>498 | 40<br>5.1<br>617<br>499 | 73<br>3.4<br>341<br>341 | 60<br>3.3<br>709<br>456 | |
| 5.714 | 438 | 5.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 706$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | 39 | 66 | 49 | 87 | 60 | | | | | | | $M_2$ | 8.20 | 304 | 3.048 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 1058 | 492 | 1058 | 443 | 1058 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 738 | 492 | 706 | 443 | 675 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 77 | 60 | 116 | 84 | 149 | 93 | $M_2$ | 8.20 | 351 | 3.048 |
| | | | | | | | 4.4 | 4.5 | 3.0 | 3.3 | 2.3 | 3.0 | c | | | |
| | | | | | | | 468 | 984 | 468 | 984 | 443 | 984 | $n_{2\,Eck}$ | | | |
| | | | | | | | 467 | 701 | 467 | 652 | 443 | 636 | $n_{2\,th}$ | | | |
| | | 43 | 72 | 54 | 95 | 66 | | | | | | | $M_2$ | 7.92 | 334 | 3.350 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 963 | 448 | 963 | 403 | 963 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 671 | 448 | 643 | 403 | 615 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 85 | 66 | 128 | 92 | 164 | 102 | $M_2$ | 7.92 | 367 | 3.350 |
| | | | | | | | 4.2 | 4.3 | 2.8 | 3.1 | 2.2 | 2.8 | c | | | |
| | | | | | | | 425 | 896 | 425 | 896 | 403 | 896 | $n_{2\,Eck}$ | | | |
| | | | | | | | 425 | 631 | 425 | 586 | 403 | 572 | $n_{2\,th}$ | | | |
| | 62 | 55 | 91 | 68 | 120 | 84 | | | | | | | $M_2$ | 7.65 | 373 | 4.225 |
| | 5.7 | 5.0 | 4.0 | 4.1 | 3.0 | 3.4 | | | | | | | c | | | |
| | 355 | 763 | 355 | 763 | 320 | 763 | | | | | | | $n_{2\,Eck}$ | | | |
| | 355 | 596 | 355 | 571 | 320 | 547 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 108 | 84 | 162 | 117 | 207 | 129 | $M_2$ | 7.65 | 398 | 4.225 |
| | | | | | | | 3.6 | 3.7 | 2.4 | 2.7 | 1.9 | 2.4 | c | | | |
| | | | | | | | 337 | 710 | 337 | 710 | 320 | 710 | $n_{2\,Eck}$ | | | |
| | | | | | | | 337 | 523 | 337 | 519 | 320 | 507 | $n_{2\,th}$ | | | |
| | 69 | 60 | 100 | 75 | 132 | 92 | | | | | | | $M_2$ | 7.39 | 410 | 4.643 |
| | 5.7 | 5.0 | 4.0 | 4.1 | 3.0 | 3.4 | | | | | | | c | | | |
| | 323 | 695 | 323 | 695 | 291 | 695 | | | | | | | $n_{2\,Eck}$ | | | |
| | 323 | 543 | 323 | 520 | 291 | 498 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 119 | 92 | 178 | 129 | 228 | 142 | $M_2$ | 7.39 | 414 | 4.643 |
| | | | | | | | 3.4 | 3.5 | 2.3 | 2.5 | 1.8 | 2.3 | c | | | |
| | | | | | | | 307 | 646 | 307 | 646 | 291 | 646 | $n_{2\,Eck}$ | | | |
| | | | | | | | 307 | 476 | 307 | 466 | 291 | 456 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 5.64 | 254 | 5.200 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 77 | 68 | 113 | 84 | 149 | 104 | | | | | | | $M_2$ | 5.64 | 399 | 5.200 |
| | 4.9 | 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| | 289 | 620 | 289 | 620 | 260 | 620 | | | | | | | $n_{2\,Eck}$ | | | |
| | 288 | 532 | 288 | 510 | 260 | 488 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 133 | 104 | 199 | 144 | 256 | 160 | $M_2$ | 5.64 | 427 | 5.200 |
| | | | | | | | 3.1 | 3.2 | 2.1 | 2.3 | 1.7 | 2.1 | c | | | |
| | | | | | | | 274 | 577 | 274 | 577 | 260 | 577 | $n_{2\,Eck}$ | | | |
| | | | | | | | 274 | 425 | 274 | 425 | 260 | 425 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 5.46 | 279 | 5.714 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 85 | 75 | 124 | 93 | 164 | 114 | | | | | | | $M_2$ | 5.46 | 438 | 5.714 |
| | 4.9 | 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| | 263 | 564 | 263 | 564 | 236 | 564 | | | | | | | $n_{2\,Eck}$ | | | |
| | 263 | 484 | 263 | 464 | 236 | 444 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

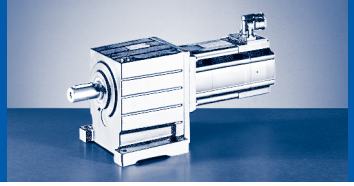
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 706$ Nm

| GST07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 5.714 | 448 | 5.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 6.400 | 296 | 4.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 60<br>4.8<br>234<br>234 | 48<br>4.7<br>469<br>457 | 45<br>4.8<br>551<br>458 | 82<br>3.2<br>305<br>305 | 67<br>3.1<br>633<br>420 | |
| 6.400 | 460 | 4.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 6.400 | 463 | 4.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 7.150 | 489 | 6.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 8.125 | 539 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 8.800 | 430 | 4.73 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 82<br>5.0<br>171<br>170 | 65<br>5.0<br>341<br>323 | 61<br>5.1<br>401<br>324 | 112<br>3.4<br>222<br>222 | 92<br>3.3<br>460<br>296 | |
| 8.800 | 527 | 4.73 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.856 | 456 | 3.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 92<br>4.8<br>152<br>152 | 74<br>4.7<br>304<br>297 | 69<br>4.8<br>358<br>297 | 126<br>3.2<br>198<br>198 | 103<br>3.1<br>411<br>273 | |
| 9.856 | 549 | 3.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.200 | 518 | 3.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 104<br>4.8<br>134<br>134 | 84<br>4.7<br>268<br>261 | 78<br>4.8<br>315<br>262 | 143<br>3.2<br>174<br>174 | 117<br>3.1<br>362<br>240 | |
| 11.200 | 598 | 3.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 95<br>6.0<br>134<br>134 |
| 12.571 | 380 | 2.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 44<br>5.9<br>322<br>283 | 53<br>5.0<br>322<br>274 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 706$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | 147 | 114 | 219 | 159 | 281 | 176 | $M_2$ | 5.46 | 448 | 5.714 |
| | | | | | | | 3.0 | 3.1 | 2.0 | 2.2 | 1.6 | 2.0 | c | | | |
| | | | | | | | 249 | 525 | 249 | 525 | 236 | 525 | $n_{2\,Eck}$ | | | |
| | | | | | | | 249 | 387 | 249 | 387 | 236 | 387 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 4.49 | 296 | 6.400 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 96 | 84 | 140 | 104 | 183 | 128 | | | | | | | $M_2$ | 4.49 | 460 | 6.400 |
| | 4.6 | 4.1 | 3.2 | 3.3 | 2.5 | 2.7 | | | | | | | c | | | |
| | 234 | 504 | 234 | 504 | 211 | 504 | | | | | | | $n_{2\,Eck}$ | | | |
| | 234 | 444 | 234 | 426 | 211 | 408 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 165 | 128 | 246 | 178 | 315 | 197 | $M_2$ | 4.49 | 463 | 6.400 |
| | | | | | | | 2.8 | 2.8 | 1.9 | 2.0 | 1.5 | 1.9 | c | | | |
| | | | | | | | 223 | 469 | 223 | 469 | 211 | 469 | $n_{2\,Eck}$ | | | |
| | | | | | | | 223 | 345 | 223 | 345 | 211 | 345 | $n_{2\,th}$ | | | |
| | 107 | 94 | 156 | 117 | 205 | 143 | 184 | 143 | 275 | 199 | 352 | 220 | $M_2$ | 6.27 | 489 | 7.150 |
| | 4.4 | 3.9 | 3.1 | 3.2 | 2.4 | 2.6 | 2.6 | 2.7 | 1.8 | 1.9 | 1.4 | 1.8 | c | | | |
| | 210 | 451 | 210 | 451 | 189 | 451 | 199 | 420 | 199 | 420 | 189 | 420 | $n_{2\,Eck}$ | | | |
| | 210 | 334 | 210 | 319 | 189 | 305 | 199 | 307 | 199 | 282 | 189 | 266 | $n_{2\,th}$ | | | |
| | 122 | 107 | 178 | 133 | 233 | 163 | 209 | 163 | 313 | 227 | 401 | 250 | $M_2$ | 6.04 | 539 | 8.125 |
| | 4.3 | 3.8 | 3.0 | 3.1 | 2.3 | 2.5 | 2.5 | 2.6 | 1.7 | 1.9 | 1.3 | 1.7 | c | | | |
| | 185 | 397 | 185 | 397 | 166 | 397 | 175 | 369 | 175 | 369 | 166 | 369 | $n_{2\,Eck}$ | | | |
| | 185 | 292 | 185 | 279 | 166 | 267 | 175 | 268 | 175 | 244 | 166 | 230 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 4.73 | 430 | 8.800 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 133 | 117 | 193 | 144 | 253 | 177 | 227 | 177 | 340 | 246 | 434 | 272 | $M_2$ | 4.73 | 527 | 8.800 |
| | 3.9 | 3.4 | 2.7 | 2.8 | 2.1 | 2.3 | 2.3 | 2.3 | 1.5 | 1.7 | 1.2 | 1.5 | c | | | |
| | 171 | 367 | 171 | 367 | 153 | 367 | 162 | 341 | 162 | 341 | 153 | 341 | $n_{2\,Eck}$ | | | |
| | 170 | 299 | 170 | 285 | 153 | 272 | 162 | 251 | 162 | 240 | 153 | 226 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 3.90 | 456 | 9.856 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 68 | 149 | 131 | 217 | 162 | 284 | 198 | 255 | 198 | 381 | 276 | 487 | 305 | $M_2$ | 3.90 | 549 | 9.856 |
| 5.7 | 3.6 | 3.2 | 2.5 | 2.6 | 1.9 | 2.1 | 2.1 | 2.2 | 1.4 | 1.6 | 1.1 | 1.4 | c | | | |
| 365 | 152 | 327 | 152 | 327 | 137 | 327 | 145 | 304 | 145 | 304 | 137 | 304 | $n_{2\,Eck}$ | | | |
| 308 | 152 | 274 | 152 | 262 | 137 | 250 | 145 | 224 | 145 | 216 | 137 | 205 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 3.78 | 518 | 11.200 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 78 | 169 | 149 | 246 | 184 | 323 | 226 | 290 | 226 | 433 | 313 | 554 | 346 | $M_2$ | 3.78 | 598 | 11.200 |
| 5.5 | 3.4 | 3.1 | 2.4 | 2.5 | 1.8 | 2.0 | 2.0 | 2.1 | 1.4 | 1.5 | 1.1 | 1.4 | c | | | |
| 321 | 134 | 288 | 134 | 288 | 121 | 288 | 127 | 268 | 127 | 268 | 121 | 268 | $n_{2\,Eck}$ | | | |
| 269 | 134 | 239 | 134 | 228 | 121 | 218 | 127 | 197 | 127 | 186 | 121 | 177 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 2.86 | 380 | 12.571 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

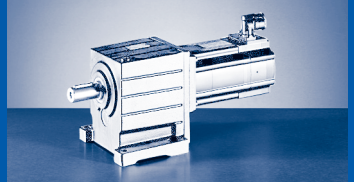
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 706$ Nm

| GST07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 12.571 | 489 | 2.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 118<br>4.0<br>119<br>119 | 95<br>4.0<br>239<br>239 | 89<br>4.0<br>280<br>263 | 162<br>2.7<br>155<br>155 | 132<br>2.6<br>322<br>241 | |
| 12.571 | 601 | 2.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 107<br>5.4<br>119<br>119 |
| 14.286 | 432 | 2.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 50<br>5.9<br>284<br>249 | 60<br>5.0<br>284<br>241 | | | | | | | | |
| 14.286 | 556 | 2.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 134<br>4.0<br>105<br>105 | 107<br>4.0<br>210<br>210 | 101<br>4.0<br>247<br>232 | 184<br>2.7<br>137<br>137 | 150<br>2.6<br>284<br>212 | |
| 14.286 | 642 | 2.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 122<br>5.0<br>105<br>105 |
| 15.400 | 515 | 2.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 146<br>3.5<br>97<br>97 | 116<br>3.9<br>195<br>195 | 109<br>3.9<br>229<br>229 | 198<br>2.6<br>127<br>127 | 162<br>2.6<br>263<br>215 | |
| 15.400 | 644 | 2.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 132<br>4.7<br>97<br>97 |
| 17.500 | 585 | 2.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 166<br>3.5<br>86<br>86 | 132<br>3.9<br>171<br>171 | 124<br>3.9<br>201<br>201 | 226<br>2.6<br>111<br>111 | 184<br>2.6<br>231<br>189 | |
| 17.500 | 680 | 2.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 151<br>4.4<br>86<br>86 |
| 20.044 | 418 | 1.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 57<br>5.8<br>187<br>187 | 71<br>4.6<br>202<br>202 | 85<br>3.9<br>202<br>202 | | | | | | | | |
| 20.044 | 538 | 1.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 103<br>5.0<br>97<br>97 | 80<br>5.3<br>202<br>202 | 191<br>2.8<br>75<br>75 | 152<br>3.1<br>150<br>150 | 143<br>3.2<br>176<br>176 | 260<br>2.1<br>97<br>97 | 212<br>2.1<br>202<br>193 | |
| 20.044 | 694 | 1.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 174<br>3.9<br>75<br>75 |
| 22.778 | 475 | 1.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 65<br>5.8<br>165<br>165 | 81<br>4.6<br>178<br>178 | 96<br>3.9<br>178<br>178 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 706$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.86 | 489 | 12.571 |
| 88<br>4.9<br>286<br>273 | 191<br>3.1<br>119<br>119 | 168<br>2.7<br>257<br>243 | 277<br>2.1<br>119<br>119 | 207<br>2.2<br>257<br>233 | 363<br>1.6<br>107<br>107 | 254<br>1.8<br>257<br>216 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.86 | 601 | 12.571 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.79 | 432 | 14.286 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.79 | 556 | 14.286 |
| 100<br>4.6<br>252<br>238 | 217<br>2.9<br>105<br>105 | 191<br>2.6<br>226<br>211 | 315<br>2.0<br>105<br>105 | 236<br>2.1<br>226<br>202 | 413<br>1.5<br>95<br>95 | 289<br>1.7<br>226<br>183 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.79 | 642 | 14.286 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.26 | 515 | 15.400 |
| 108<br>4.9<br>234<br>233 | 235<br>2.7<br>97<br>97 | 205<br>2.7<br>209<br>209 | 341<br>1.9<br>97<br>97 | 254<br>2.2<br>209<br>209 | 446<br>1.4<br>88<br>88 | 311<br>1.8<br>209<br>195 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.26 | 644 | 15.400 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.21 | 585 | 17.500 |
| 123<br>4.5<br>206<br>205 | 267<br>2.5<br>86<br>86 | 234<br>2.5<br>184<br>184 | 388<br>1.7<br>86<br>86 | 289<br>2.1<br>184<br>181 | 508<br>1.3<br>77<br>77 | 354<br>1.7<br>184<br>165 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.21 | 680 | 17.500 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 418 | 20.044 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 538 | 20.044 |
| 141<br>4.0<br>180<br>179 | 307<br>2.2<br>75<br>75 | 269<br>2.2<br>161<br>161 | 445<br>1.6<br>75<br>75 | 332<br>1.8<br>161<br>161 | 582<br>1.2<br>67<br>67 | 406<br>1.5<br>161<br>161 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 694 | 20.044 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.35 | 475 | 22.778 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

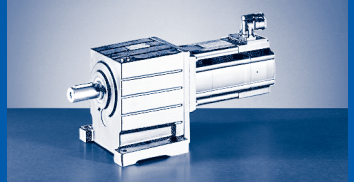
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 706$ Nm

| GST07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 22.778 | 611 | 1.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 117<br>5.0<br>86<br>86 | 91<br>5.3<br>178<br>178 | 217<br>2.8<br>66<br>66 | 173<br>3.1<br>132<br>132 | 162<br>3.2<br>155<br>155 | 295<br>2.1<br>86<br>86 | 240<br>2.1<br>178<br>170 | |
| 22.778 | 682 | 1.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 198<br>3.4<br>66<br>66 |
| 24.567 | 438 | 1.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 71<br>5.0<br>153<br>153 | 88<br>4.0<br>165<br>165 | 105<br>3.3<br>165<br>165 | | | | | | | | |
| 24.567 | 564 | 1.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 127<br>4.3<br>79<br>79 | 99<br>4.5<br>165<br>165 | 235<br>2.4<br>61<br>61 | 187<br>2.7<br>122<br>122 | 176<br>2.7<br>144<br>143 | 319<br>1.8<br>79<br>79 | 260<br>1.8<br>165<br>165 | |
| 24.567 | 706 | 1.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 214<br>3.2<br>61<br>61 |
| 27.917 | 498 | 1.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 81<br>5.0<br>134<br>134 | 100<br>4.0<br>145<br>145 | 119<br>3.3<br>145<br>145 | | | | | | | | |
| 27.917 | 641 | 1.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 144<br>4.3<br>70<br>70 | 112<br>4.5<br>145<br>145 | 267<br>2.4<br>54<br>54 | 213<br>2.7<br>108<br>107 | 200<br>2.7<br>126<br>126 | 363<br>1.8<br>70<br>70 | 296<br>1.8<br>145<br>145 | |
| 27.917 | 691 | 1.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 245<br>2.8<br>54<br>54 |
| 32.267 | 450 | 0.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 69<br>5.1<br>126<br>126 | 94<br>3.9<br>116<br>116 | 116<br>3.1<br>126<br>126 | 139<br>2.6<br>126<br>126 | | | | | | | | |
| 32.267 | 580 | 0.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 168<br>3.4<br>60<br>60 | 131<br>3.5<br>126<br>126 | 310<br>1.9<br>47<br>46 | 248<br>2.1<br>93<br>93 | 232<br>2.1<br>109<br>109 | 421<br>1.4<br>60<br>60 | 343<br>1.4<br>126<br>126 | |
| 36.667 | 512 | 0.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 78<br>5.1<br>111<br>110 | 107<br>3.9<br>102<br>102 | 132<br>3.1<br>111<br>110 | 157<br>2.6<br>111<br>110 | | | | | | | | |
| 36.667 | 659 | 0.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 191<br>3.4<br>53<br>53 | 149<br>3.5<br>111<br>110 | 353<br>1.9<br>41<br>41 | 281<br>2.1<br>82<br>82 | 264<br>2.1<br>96<br>96 | 478<br>1.4<br>53<br>53 | 390<br>1.4<br>111<br>110 | |
| 39.160 | 456 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 84<br>4.3<br>103<br>103 | 115<br>3.2<br>96<br>96 | 142<br>2.6<br>103<br>103 | 169<br>2.2<br>103<br>103 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 706$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.35 | 611 | 22.778 |
| 161<br>3.5<br>158<br>158 | 350<br>1.9<br>66<br>66 | 306<br>1.9<br>142<br>142 | 506<br>1.3<br>66<br>66 | 378<br>1.6<br>142<br>142 | 663<br>1.0<br>59<br>59 | 463<br>1.3<br>142<br>135 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.35 | 682 | 22.778 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.02 | 438 | 24.567 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.02 | 564 | 24.567 |
| 174<br>3.4<br>147<br>146 | 378<br>1.9<br>61<br>61 | 331<br>1.9<br>131<br>131 | 547<br>1.3<br>61<br>61 | 408<br>1.5<br>131<br>131 | | 499<br>1.2<br>131<br>131 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.02 | 706 | 24.567 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.01 | 498 | 27.917 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.01 | 641 | 27.917 |
| 199<br>2.9<br>129<br>129 | 431<br>1.6<br>54<br>54 | 377<br>1.6<br>116<br>116 | 622<br>1.1<br>54<br>54 | 464<br>1.3<br>116<br>116 | | 568<br>1.1<br>116<br>116 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.01 | 691 | 27.917 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.66 | 450 | 32.267 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.66 | 580 | 32.267 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.65 | 512 | 36.667 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.65 | 659 | 36.667 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.49 | 456 | 39.160 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

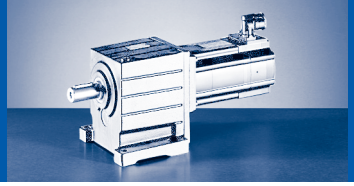
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 706$ Nm

| GST07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 39.160 | 586 | 0.49 | $M_2$ | | | | | 205 | 160 | 378 | 302 | 283 | 512 | 417 | |
| | | | c | | | | | 2.8 | 2.9 | 1.5 | 1.7 | 1.8 | 1.1 | 1.2 | |
| | | | $n_{2\,Eck}$ | | | | | 50 | 103 | 38 | 77 | 90 | 50 | 103 | |
| | | | $n_{2\,th}$ | | | | | 50 | 103 | 38 | 77 | 90 | 50 | 103 | |
| 44.500 | 518 | 0.48 | $M_2$ | 95 | 130 | 161 | 191 | | | | | | | | |
| | | | c | 4.7 | 3.6 | 2.9 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 91 | 84 | 91 | 91 | | | | | | | | |
| | | | $n_{2\,th}$ | 91 | 84 | 91 | 91 | | | | | | | | |
| 44.500 | 666 | 0.48 | $M_2$ | | | | | 233 | 181 | 429 | 342 | 321 | 582 | 474 | |
| | | | c | | | | | 2.8 | 3.3 | 1.5 | 1.9 | 2.0 | 1.1 | 1.3 | |
| | | | $n_{2\,Eck}$ | | | | | 44 | 91 | 34 | 67 | 79 | 44 | 91 | |
| | | | $n_{2\,th}$ | | | | | 44 | 91 | 34 | 67 | 79 | 44 | 91 | |
| 49.500 | 461 | 0.33 | $M_2$ | 107 | 146 | 180 | 214 | | | | | | | | |
| | | | c | 3.8 | 2.9 | 2.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 82 | 76 | 82 | 82 | | | | | | | | |
| | | | $n_{2\,th}$ | 82 | 76 | 82 | 82 | | | | | | | | |
| 56.250 | 524 | 0.33 | $M_2$ | 122 | 166 | 205 | 243 | | | | | | | | |
| | | | c | 3.8 | 2.9 | 2.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 72 | 67 | 72 | 72 | | | | | | | | |
| | | | $n_{2\,th}$ | 72 | 67 | 72 | 72 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 706$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 586 | 39.160 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.48 | 518 | 44.500 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.48 | 666 | 44.500 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.33 | 461 | 49.500 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.33 | 524 | 56.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

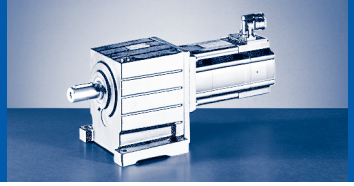
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 710$ Nm

| GST07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 39.200 | 692 | 0.97 | $M_2$ | | | | | 111 | 138 | 164 |
| | | | c | | | | | 5.0 | 4.0 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 96 | 103 | 103 |
| | | | $n_{2\,th}$ | | | | | 96 | 103 | 103 |
| 44.000 | 706 | 0.53 | $M_2$ | | | | | 125 | 155 | 185 |
| | | | c | | | | | 5.0 | 4.0 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 85 | 92 | 92 |
| | | | $n_{2\,th}$ | | | | | 85 | 92 | 92 |
| 51.022 | 700 | 0.84 | $M_2$ | | | | 107 | 146 | 181 | 215 |
| | | | c | | | | 5.7 | 4.3 | 3.4 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 79 | 74 | 79 | 79 |
| | | | $n_{2\,th}$ | | | | 79 | 74 | 79 | 79 |
| 53.900 | 706 | 0.48 | $M_2$ | | | | 113 | 154 | 191 | 228 |
| | | | c | | | | 5.4 | 4.1 | 3.3 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | 75 | 70 | 75 | 75 |
| | | | $n_{2\,th}$ | | | | 75 | 70 | 75 | 75 |
| 65.079 | 587 | 0.31 | $M_2$ | | | 89 | | | | |
| | | | c | | | 5.7 | | | | |
| | | | $n_{2\,Eck}$ | | | 62 | | | | |
| | | | $n_{2\,th}$ | | | 62 | | | | |
| 65.079 | 707 | 0.31 | $M_2$ | | | | 138 | 188 | 232 | 276 |
| | | | c | | | | 4.5 | 3.4 | 2.7 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | 62 | 58 | 62 | 62 |
| | | | $n_{2\,th}$ | | | | 62 | 58 | 62 | 62 |
| 70.156 | 706 | 0.43 | $M_2$ | | | | 149 | 203 | 251 | 298 |
| | | | c | | | | 4.1 | 3.2 | 2.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 58 | 54 | 58 | 58 |
| | | | $n_{2\,th}$ | | | | 58 | 53 | 58 | 58 |
| 79.762 | 710 | 0.54 | $M_2$ | | | 109 | 170 | 232 | 286 | 340 |
| | | | c | | | 5.6 | 3.7 | 2.8 | 2.2 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 51 | 51 | 47 | 51 | 51 |
| | | | $n_{2\,th}$ | | | 51 | 51 | 47 | 51 | 51 |
| 85.983 | 706 | 0.40 | $M_2$ | | | 118 | 184 | 251 | 309 | 367 |
| | | | c | | | 5.2 | 3.4 | 2.6 | 2.1 | 1.7 |
| | | | $n_{2\,Eck}$ | | | 47 | 47 | 44 | 47 | 47 |
| | | | $n_{2\,th}$ | | | 47 | 47 | 44 | 47 | 47 |
| 97.708 | 710 | 0.40 | $M_2$ | | 107 | 135 | 210 | 286 | 352 | 418 |
| | | | c | | 5.7 | 4.6 | 3.0 | 2.3 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 42 | 42 | 42 | 38 | 42 | 42 |
| | | | $n_{2\,th}$ | | 41 | 41 | 41 | 38 | 41 | 41 |
| 111.915 | 706 | 0.24 | $M_2$ | | 123 | 155 | 242 | 328 | 404 | 480 |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 36 | 36 | 36 | 34 | 36 | 36 |
| | | | $n_{2\,th}$ | | 36 | 36 | 36 | 34 | 36 | 36 |
| 127.176 | 710 | 0.24 | $M_2$ | | 141 | 177 | 276 | 374 | 460 | 546 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 32 | 32 | 32 | 30 | 32 | 32 |
| | | | $n_{2\,th}$ | | 32 | 32 | 32 | 29 | 32 | 32 |
| 139.211 | 706 | 0.17 | $M_2$ | | 155 | 195 | 303 | 410 | 504 | 598 |
| | | | c | | 4.0 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 29 | 29 | 29 | 27 | 29 | 29 |
| | | | $n_{2\,th}$ | | 29 | 29 | 29 | 27 | 29 | 29 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 710$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 201 | 157 | 371 | 296 | 278 | 504 | 410 | $M_2$ | 0.97 | 692 | 39.200 |
| 3.4 | 3.5 | 1.9 | 2.1 | 2.1 | 1.4 | 1.4 | c | | | |
| 50 | 103 | 38 | 77 | 90 | 50 | 103 | $n_{2\,Eck}$ | | | |
| 50 | 103 | 38 | 77 | 90 | 50 | 94 | $n_{2\,th}$ | | | |
| 226 | 176 | 418 | 333 | 312 | 566 | 461 | $M_2$ | 0.53 | 706 | 44.000 |
| 3.1 | 3.5 | 1.7 | 2.1 | 2.1 | 1.2 | 1.4 | c | | | |
| 44 | 92 | 34 | 68 | 80 | 44 | 92 | $n_{2\,Eck}$ | | | |
| 44 | 92 | 34 | 68 | 80 | 44 | 92 | $n_{2\,th}$ | | | |
| 264 | 205 | 485 | 387 | 363 | 658 | 535 | $M_2$ | 0.84 | 700 | 51.022 |
| 2.6 | 3.0 | 1.4 | 1.8 | 1.8 | 1.1 | 1.2 | c | | | |
| 38 | 79 | 29 | 59 | 69 | 38 | 79 | $n_{2\,Eck}$ | | | |
| 38 | 79 | 29 | 59 | 69 | 38 | 68 | $n_{2\,th}$ | | | |
| 279 | 217 | 513 | 409 | 383 | 695 | 566 | $M_2$ | 0.48 | 706 | 53.900 |
| 2.5 | 2.9 | 1.4 | 1.7 | 1.7 | 1.0 | 1.1 | c | | | |
| 36 | 75 | 28 | 56 | 65 | 36 | 75 | $n_{2\,Eck}$ | | | |
| 36 | 75 | 28 | 56 | 65 | 36 | 75 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.31 | 587 | 65.079 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.31 | 707 | 65.079 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 365 | 285 | 670 | 535 | 501 | | | $M_2$ | 0.43 | 706 | 70.156 |
| 1.9 | 2.2 | 1.1 | 1.3 | 1.3 | | | c | | | |
| 28 | 58 | 21 | 43 | 50 | | | $n_{2\,Eck}$ | | | |
| 28 | 58 | 21 | 43 | 50 | | | $n_{2\,th}$ | | | |
| 416 | 324 | | 609 | 571 | | | $M_2$ | 0.54 | 710 | 79.762 |
| 1.7 | 2.0 | | 1.2 | 1.2 | | | c | | | |
| 25 | 51 | | 38 | 44 | | | $n_{2\,Eck}$ | | | |
| 24 | 51 | | 38 | 44 | | | $n_{2\,th}$ | | | |
| 449 | 350 | | 657 | 616 | | | $M_2$ | 0.40 | 706 | 85.983 |
| 1.6 | 1.8 | | 1.1 | 1.1 | | | c | | | |
| 23 | 47 | | 35 | 41 | | | $n_{2\,Eck}$ | | | |
| 23 | 47 | | 35 | 41 | | | $n_{2\,th}$ | | | |
| 512 | 399 | | | | | | $M_2$ | 0.40 | 710 | 97.708 |
| 1.4 | 1.6 | | | | | | c | | | |
| 20 | 42 | | | | | | $n_{2\,Eck}$ | | | |
| 20 | 41 | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.24 | 706 | 111.915 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.24 | 710 | 127.176 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.17 | 706 | 139.211 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

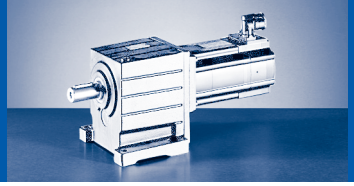
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 710$ Nm

| GST07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 158.194 | 710 | 0.17 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 177<br>3.5<br>26<br>26 | 222<br>2.8<br>26<br>26 | 345<br>1.9<br>26<br>26 | 467<br>1.4<br>24<br>24 | 574<br>1.1<br>26<br>26 | |
| 180.156 | 706 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 202<br>3.1<br>23<br>22 | 254<br>2.5<br>23<br>22 | | | | |
| 204.722 | 710 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 112<br>5.5<br>20<br>20 | 231<br>2.7<br>20<br>20 | 290<br>2.2<br>20<br>20 | | | | |
| 236.622 | 706 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 130<br>4.7<br>17<br>17 | 268<br>2.4<br>17<br>17 | 336<br>1.9<br>17<br>17 | | | | |
| 248.458 | 710 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 137<br>4.5<br>16<br>16 | 281<br>2.3<br>16<br>16 | 353<br>1.8<br>16<br>16 | | | | |
| 268.889 | 710 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 149<br>4.2<br>15<br>15 | 305<br>2.1<br>15<br>15 | 383<br>1.7<br>15<br>15 | | | | |
| 326.333 | 710 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 182<br>3.4<br>12<br>12 | 371<br>1.7<br>12<br>12 | 466<br>1.4<br>12<br>12 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 710$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GST07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.17 | 710 | 158.194 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 706 | 180.156 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 710 | 204.722 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.10 | 706 | 236.622 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.08 | 710 | 248.458 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.10 | 710 | 268.889 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.07 | 710 | 326.333 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

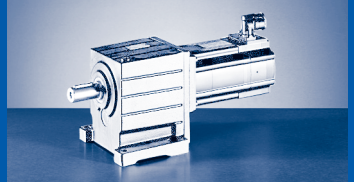
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 357$ Nm

| GST09-1S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 1.560 | 277 | 22.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 2.048 | 198 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 2.048 | 308 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 2.333 | 207 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 35<br>5.6<br>643<br>643 |
| 2.333 | 322 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 2.810 | 140 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 27<br>5.0<br>534<br>534 | 21<br>5.0<br>1068<br>1012 | 20<br>5.1<br>1255<br>1014 | 36<br>3.4<br>694<br>694 | 30<br>3.3<br>1442<br>927 | | | |
| 2.810 | 218 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 43<br>4.9<br>534<br>534 |
| 2.810 | 339 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 3.444 | 230 | 7.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 53<br>4.2<br>436<br>435 |
| 3.444 | 357 | 7.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 4.667 | 156 | 4.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 24<br>5.7<br>418<br>418 | 19<br>5.7<br>868<br>814 | 45<br>3.4<br>321<br>321 | 36<br>3.4<br>643<br>643 | 34<br>3.4<br>755<br>744 | 61<br>2.3<br>418<br>418 | 50<br>2.2<br>868<br>685 | | | |
| 4.667 | 243 | 4.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 40<br>5.8<br>321<br>321 | 33<br>5.3<br>771<br>769 | 72<br>3.3<br>321<br>321 |
| 5.667 | 162 | 3.51 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 30<br>4.8<br>344<br>344 | 23<br>4.9<br>715<br>715 | 55<br>2.9<br>265<br>265 | 44<br>2.9<br>529<br>529 | 41<br>2.9<br>622<br>622 | 75<br>2.0<br>344<br>344 | 61<br>1.9<br>715<br>641 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 357$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | 59 | 43 | 76 | 47 | $M_2$ | 22.20 | 277 | 1.560 |
| | | | | | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | | | | | 914 | 1923 | 865 | 1923 | $n_{2\,Eck}$ | | | |
| | | | | | | | 913 | 1294 | 865 | 1267 | $n_{2\,th}$ | | | |
| 27 | 45 | 33 | 59 | 41 | | | | | | | $M_2$ | 15.60 | 198 | 2.048 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 1575 | 733 | 1575 | 659 | 1575 | | | | | | | $n_{2\,Eck}$ | | | |
| 1142 | 733 | 1094 | 659 | 1048 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 52 | 40 | 78 | 57 | 101 | 63 | $M_2$ | 15.60 | 308 | 2.048 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 696 | 1465 | 696 | 1465 | 659 | 1465 | $n_{2\,Eck}$ | | | |
| | | | | | 696 | 1080 | 696 | 1080 | 659 | 1058 | $n_{2\,th}$ | | | |
| 31 | 51 | 38 | 68 | 47 | | | | | | | $M_2$ | 12.20 | 207 | 2.333 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 1382 | 643 | 1382 | 579 | 1382 | | | | | | | $n_{2\,Eck}$ | | | |
| 1077 | 643 | 1032 | 579 | 988 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 59 | 46 | 90 | 65 | 115 | 72 | $M_2$ | 12.20 | 322 | 2.333 |
| | | | | | 5.2 | 5.3 | 3.5 | 3.8 | 2.7 | 3.5 | c | | | |
| | | | | | 611 | 1286 | 611 | 1286 | 579 | 1286 | $n_{2\,Eck}$ | | | |
| | | | | | 611 | 947 | 611 | 947 | 579 | 947 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 9.58 | 140 | 2.810 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 37 | 62 | 46 | 82 | 57 | | | | | | | $M_2$ | 9.58 | 218 | 2.810 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 1148 | 534 | 1148 | 481 | 1148 | | | | | | | $n_{2\,Eck}$ | | | |
| 984 | 534 | 943 | 481 | 902 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 72 | 56 | 108 | 78 | 139 | 87 | $M_2$ | 9.58 | 339 | 2.810 |
| | | | | | 4.5 | 4.6 | 3.1 | 3.4 | 2.4 | 3.0 | c | | | |
| | | | | | 507 | 1068 | 507 | 1068 | 481 | 1068 | $n_{2\,Eck}$ | | | |
| | | | | | 507 | 787 | 507 | 787 | 481 | 787 | $n_{2\,th}$ | | | |
| 46 | 76 | 57 | 100 | 70 | | | | | | | $M_2$ | 7.30 | 230 | 3.444 |
| 3.8 | 3.0 | 3.1 | 2.3 | 2.5 | | | | | | | c | | | |
| 936 | 436 | 936 | 392 | 936 | | | | | | | $n_{2\,Eck}$ | | | |
| 845 | 435 | 811 | 392 | 778 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 89 | 69 | 133 | 97 | 171 | 107 | $M_2$ | 7.30 | 357 | 3.444 |
| | | | | | 3.9 | 4.0 | 2.6 | 2.9 | 2.1 | 2.6 | c | | | |
| | | | | | 414 | 871 | 414 | 871 | 392 | 871 | $n_{2\,Eck}$ | | | |
| | | | | | 414 | 642 | 414 | 642 | 392 | 642 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.60 | 156 | 4.667 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 63 | 104 | 78 | 137 | 96 | | | | | | | $M_2$ | 4.60 | 243 | 4.667 |
| 2.9 | 2.3 | 2.4 | 1.8 | 2.0 | | | | | | | c | | | |
| 691 | 321 | 691 | 289 | 691 | | | | | | | $n_{2\,Eck}$ | | | |
| 691 | 321 | 691 | 289 | 666 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 3.51 | 162 | 5.667 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

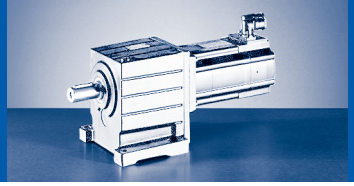
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 357$ Nm

| GST09-1S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 5.667 | 253 | 3.51 | $M_2$ | | | | | | | | 49 | 40 | 88 |
| | | | c | | | | | | | | 4.9 | 4.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 265 | 635 | 265 |
| | | | $n_{2\,th}$ | | | | | | | | 265 | 634 | 265 |
| 7.333 | 168 | 2.26 | $M_2$ | 39 | 30 | 71 | 57 | 53 | 97 | 79 | | | |
| | | | c | 3.9 | 3.9 | 2.3 | 2.3 | 2.3 | 1.6 | 1.5 | | | |
| | | | $n_{2\,Eck}$ | 266 | 552 | 205 | 409 | 481 | 266 | 552 | | | |
| | | | $n_{2\,th}$ | 266 | 552 | 205 | 409 | 481 | 266 | 514 | | | |
| 7.333 | 262 | 2.26 | $M_2$ | | | | | | | | 64 | 53 | 114 |
| | | | c | | | | | | | | 4.0 | 3.6 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 205 | 491 | 205 |
| | | | $n_{2\,th}$ | | | | | | | | 205 | 490 | 205 |
| 8.900 | 170 | 1.66 | $M_2$ | 47 | 37 | 87 | 69 | 65 | 118 | 96 | | | |
| | | | c | 3.2 | 3.3 | 1.9 | 1.9 | 2.0 | 1.3 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 219 | 455 | 169 | 337 | 396 | 219 | 455 | | | |
| | | | $n_{2\,th}$ | 219 | 455 | 169 | 337 | 396 | 219 | 450 | | | |
| 8.900 | 265 | 1.66 | $M_2$ | | | | | | | | 79 | 64 | 139 |
| | | | c | | | | | | | | 3.3 | 3.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 169 | 405 | 169 |
| | | | $n_{2\,th}$ | | | | | | | | 169 | 403 | 169 |
| 11.250 | 173 | 1.11 | $M_2$ | 60 | 47 | 110 | 88 | 83 | 150 | 122 | | | |
| | | | c | 2.6 | 2.6 | 1.6 | 1.6 | 1.6 | 1.1 | 1.0 | | | |
| | | | $n_{2\,Eck}$ | 173 | 360 | 133 | 267 | 313 | 173 | 360 | | | |
| | | | $n_{2\,th}$ | 173 | 360 | 133 | 267 | 313 | 173 | 360 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 357$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 77<br>2.5<br>569<br>569 | 127<br>2.0<br>265<br>265 | 95<br>2.0<br>569<br>569 | 167<br>1.5<br>238<br>238 | 116<br>1.7<br>569<br>569 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.51 | 253 | 5.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.26 | 168 | 7.333 |
| 100<br>2.0<br>440<br>440 | 165<br>1.6<br>205<br>205 | 123<br>1.6<br>440<br>440 | 216<br>1.2<br>184<br>184 | 151<br>1.3<br>440<br>440 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.26 | 262 | 7.333 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 170 | 8.900 |
| 122<br>1.7<br>362<br>362 | 201<br>1.3<br>169<br>169 | 150<br>1.4<br>362<br>362 | 263<br>1.0<br>152<br>152 | 184<br>1.1<br>362<br>362 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 265 | 8.900 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.11 | 173 | 11.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

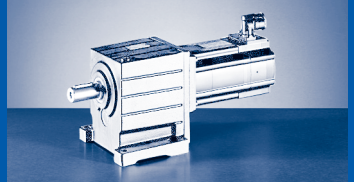
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1373$ Nm

| GST09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 4.056 | 714 | 27.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 4.457 | 784 | 25.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.324 | 508 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.324 | 789 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.850 | 558 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.850 | 867 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 6.667 | 583 | 14.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 99<br>5.6<br>225<br>225 |
| 6.667 | 905 | 14.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 7.305 | 357 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 68<br>5.0<br>205<br>205 | 54<br>5.0<br>411<br>389 | 51<br>5.1<br>483<br>390 | 93<br>3.4<br>267<br>267 | 76<br>3.3<br>554<br>357 | | | |
| 7.305 | 559 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 109<br>4.9<br>205<br>205 |
| 7.305 | 869 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 8.027 | 393 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 75<br>5.0<br>187<br>187 | 60<br>5.0<br>374<br>354 | 56<br>5.1<br>439<br>355 | 103<br>3.4<br>243<br>243 | 84<br>3.3<br>505<br>324 | | | |
| 8.027 | 615 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 120<br>4.9<br>187<br>187 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1373$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | 152 | 109 | 195 | 121 | $M_2$ | 27.00 | 714 | 4.056 |
| | | | | | | | 4.5 | 5.0 | 3.6 | 4.5 | c | | | |
| | | | | | | | 351 | 740 | 333 | 740 | $n_{2\,Eck}$ | | | |
| | | | | | | | 351 | 498 | 333 | 488 | $n_{2\,th}$ | | | |
| | | | | | | | 167 | 120 | 215 | 133 | $M_2$ | 25.90 | 784 | 4.457 |
| | | | | | | | 4.5 | 5.0 | 3.6 | 4.5 | c | | | |
| | | | | | | | 320 | 673 | 303 | 673 | $n_{2\,Eck}$ | | | |
| | | | | | | | 320 | 454 | 303 | 444 | $n_{2\,th}$ | | | |
| 69 | 115 | 86 | 151 | 106 | | | | | | | $M_2$ | 18.10 | 508 | 5.324 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 606 | 282 | 606 | 254 | 606 | | | | | | | $n_{2\,Eck}$ | | | |
| 439 | 282 | 421 | 254 | 403 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 133 | 103 | 201 | 145 | 258 | 161 | $M_2$ | 18.10 | 789 | 5.324 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 268 | 564 | 268 | 564 | 254 | 564 | $n_{2\,Eck}$ | | | |
| | | | | | 268 | 415 | 268 | 415 | 254 | 407 | $n_{2\,th}$ | | | |
| 76 | 126 | 94 | 166 | 116 | | | | | | | $M_2$ | 17.50 | 558 | 5.850 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 551 | 256 | 551 | 231 | 551 | | | | | | | $n_{2\,Eck}$ | | | |
| 400 | 256 | 383 | 231 | 367 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 146 | 113 | 220 | 159 | 284 | 176 | $M_2$ | 17.50 | 867 | 5.850 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 244 | 513 | 244 | 513 | 231 | 513 | $n_{2\,Eck}$ | | | |
| | | | | | 244 | 378 | 244 | 378 | 231 | 370 | $n_{2\,th}$ | | | |
| 87 | 144 | 108 | 190 | 133 | | | | | | | $M_2$ | 14.20 | 583 | 6.667 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 484 | 225 | 484 | 203 | 484 | | | | | | | $n_{2\,Eck}$ | | | |
| 377 | 225 | 361 | 203 | 346 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 167 | 130 | 252 | 182 | 324 | 202 | $M_2$ | 14.20 | 905 | 6.667 |
| | | | | | 5.2 | 5.3 | 3.5 | 3.8 | 2.7 | 3.5 | c | | | |
| | | | | | 214 | 450 | 214 | 450 | 203 | 450 | $n_{2\,Eck}$ | | | |
| | | | | | 214 | 332 | 214 | 332 | 203 | 332 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 11.30 | 357 | 7.305 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 96 | 159 | 119 | 209 | 146 | | | | | | | $M_2$ | 11.30 | 559 | 7.305 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 442 | 205 | 442 | 185 | 442 | | | | | | | $n_{2\,Eck}$ | | | |
| 379 | 205 | 363 | 185 | 347 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 184 | 143 | 277 | 201 | 356 | 222 | $M_2$ | 11.30 | 869 | 7.305 |
| | | | | | 4.5 | 4.6 | 3.1 | 3.4 | 2.4 | 3.0 | c | | | |
| | | | | | 195 | 411 | 195 | 411 | 185 | 411 | $n_{2\,Eck}$ | | | |
| | | | | | 195 | 303 | 195 | 303 | 185 | 303 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 11.00 | 393 | 8.027 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 105 | 175 | 130 | 230 | 160 | | | | | | | $M_2$ | 11.00 | 615 | 8.027 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 402 | 187 | 402 | 168 | 402 | | | | | | | $n_{2\,Eck}$ | | | |
| 345 | 187 | 330 | 168 | 316 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

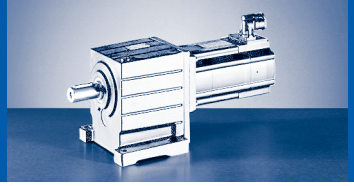
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1373$ Nm

| GST09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 8.027 | 955 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.010 | 860 | 15.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.010 | 1128 | 15.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 10.267 | 897 | 12.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 152<br>5.6<br>146<br>146 |
| 10.267 | 1178 | 12.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 11.667 | 1019 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 172<br>5.6<br>129<br>129 |
| 11.667 | 1206 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 12.362 | 605 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 115<br>5.0<br>121<br>121 | 92<br>5.0<br>243<br>230 | 86<br>5.1<br>285<br>230 | 158<br>3.4<br>158<br>158 | 129<br>3.3<br>328<br>211 | | | |
| 12.362 | 947 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 184<br>4.9<br>121<br>121 |
| 12.362 | 1253 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 14.048 | 687 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 131<br>5.0<br>107<br>107 | 105<br>5.0<br>214<br>202 | 98<br>5.1<br>251<br>203 | 179<br>3.4<br>139<br>139 | 146<br>3.3<br>288<br>185 | | | |
| 14.048 | 1076 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 209<br>4.9<br>107<br>107 |
| 14.048 | 1283 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1373$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | 203 | 157 | 305 | 220 | 391 | 244 | $M_2$ | 11.00 | 955 | 8.027 |
| | | | | | 4.5 | 4.6 | 3.1 | 3.4 | 2.4 | 3.0 | c | | | |
| | | | | | 178 | 374 | 178 | 374 | 168 | 374 | $n_{2\,Eck}$ | | | |
| | | | | | 178 | 275 | 178 | 275 | 168 | 275 | $n_{2\,th}$ | | | |
| 117 | 194 | 145 | 256 | 179 | | | | | | | $M_2$ | 15.20 | 860 | 9.010 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 358 | 167 | 358 | 150 | 358 | | | | | | | $n_{2\,Eck}$ | | | |
| 259 | 166 | 249 | 150 | 238 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 227 | 176 | 342 | 247 | 439 | 273 | $M_2$ | 15.20 | 1128 | 9.010 |
| | | | | | 4.8 | 4.9 | 3.2 | 3.5 | 2.5 | 3.2 | c | | | |
| | | | | | 158 | 333 | 158 | 333 | 150 | 333 | $n_{2\,Eck}$ | | | |
| | | | | | 158 | 245 | 158 | 237 | 150 | 232 | $n_{2\,th}$ | | | |
| 134 | 222 | 166 | 293 | 204 | | | | | | | $M_2$ | 12.40 | 897 | 10.267 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 314 | 146 | 314 | 132 | 314 | | | | | | | $n_{2\,Eck}$ | | | |
| 245 | 146 | 235 | 131 | 225 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 260 | 202 | 390 | 282 | 501 | 312 | $M_2$ | 12.40 | 1178 | 10.267 |
| | | | | | 4.4 | 4.5 | 3.0 | 3.2 | 2.3 | 2.9 | c | | | |
| | | | | | 139 | 292 | 139 | 292 | 132 | 292 | $n_{2\,Eck}$ | | | |
| | | | | | 139 | 215 | 139 | 215 | 131 | 215 | $n_{2\,th}$ | | | |
| 152 | 253 | 189 | 333 | 232 | | | | | | | $M_2$ | 12.10 | 1019 | 11.667 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 276 | 129 | 276 | 116 | 276 | | | | | | | $n_{2\,Eck}$ | | | |
| 215 | 129 | 206 | 116 | 198 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 296 | 230 | 445 | 322 | 571 | 356 | $M_2$ | 12.10 | 1206 | 11.667 |
| | | | | | 4.0 | 4.0 | 2.7 | 2.9 | 2.1 | 2.6 | c | | | |
| | | | | | 122 | 257 | 122 | 257 | 116 | 257 | $n_{2\,Eck}$ | | | |
| | | | | | 122 | 189 | 122 | 189 | 116 | 188 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 9.79 | 605 | 12.362 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 162 | 269 | 201 | 354 | 247 | | | | | | | $M_2$ | 9.79 | 947 | 12.362 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 261 | 121 | 261 | 109 | 261 | | | | | | | $n_{2\,Eck}$ | | | |
| 224 | 121 | 214 | 109 | 205 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 314 | 244 | 472 | 341 | 605 | 378 | $M_2$ | 9.79 | 1253 | 12.362 |
| | | | | | 3.9 | 4.0 | 2.6 | 2.9 | 2.1 | 2.6 | c | | | |
| | | | | | 115 | 243 | 115 | 243 | 109 | 243 | $n_{2\,Eck}$ | | | |
| | | | | | 115 | 179 | 115 | 179 | 109 | 179 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 9.53 | 687 | 14.048 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 184 | 306 | 228 | 402 | 281 | | | | | | | $M_2$ | 9.53 | 1076 | 14.048 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 230 | 107 | 230 | 96 | 230 | | | | | | | $n_{2\,Eck}$ | | | |
| 197 | 107 | 189 | 96 | 180 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 359 | 279 | 538 | 389 | 689 | 430 | $M_2$ | 9.53 | 1283 | 14.048 |
| | | | | | 3.5 | 3.6 | 2.4 | 2.6 | 1.9 | 2.3 | c | | | |
| | | | | | 101 | 214 | 101 | 214 | 96 | 214 | $n_{2\,Eck}$ | | | |
| | | | | | 101 | 157 | 101 | 157 | 96 | 157 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

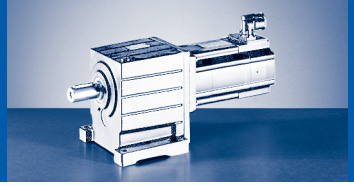
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1373$ Nm

| GST09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 15.156 | 996 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 227<br>4.2<br>99<br>99 |
| 15.156 | 1340 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 17.222 | 1132 | 7.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 258<br>4.2<br>87<br>87 |
| 17.222 | 1373 | 7.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 20.533 | 675 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 194<br>3.4<br>73<br>73 | 155<br>3.8<br>146<br>146 | 145<br>3.9<br>172<br>172 | 265<br>2.5<br>95<br>95 | 216<br>2.5<br>197<br>160 | | | |
| 20.533 | 1055 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 174<br>5.8<br>73<br>73 | 142<br>6.0<br>175<br>175 | 311<br>3.3<br>73<br>73 |
| 23.333 | 767 | 4.41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 221<br>3.4<br>64<br>64 | 176<br>3.8<br>129<br>129 | 165<br>3.9<br>151<br>151 | 301<br>2.5<br>84<br>84 | 245<br>2.5<br>174<br>140 | | | |
| 23.333 | 1199 | 4.41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 198<br>5.8<br>64<br>64 | 161<br>6.0<br>154<br>154 | 354<br>3.3<br>64<br>64 |
| 24.933 | 703 | 3.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 127<br>5.3<br>78<br>78 | 99<br>5.5<br>162<br>162 | 237<br>2.9<br>60<br>60 | 189<br>3.3<br>120<br>120 | 177<br>3.3<br>141<br>141 | 323<br>2.2<br>78<br>78 | 263<br>2.2<br>162<br>151 | | | |
| 24.933 | 1096 | 3.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 214<br>4.9<br>60<br>60 | 174<br>5.1<br>144<br>144 | 380<br>2.8<br>60<br>60 |
| 28.333 | 799 | 3.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 145<br>5.3<br>69<br>69 | 113<br>5.5<br>143<br>143 | 269<br>2.9<br>53<br>53 | 215<br>3.3<br>106<br>106 | 201<br>3.3<br>124<br>124 | 367<br>2.2<br>69<br>69 | 299<br>2.2<br>143<br>133 | | | |
| 28.333 | 1245 | 3.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 243<br>4.9<br>53<br>53 | 197<br>5.1<br>127<br>127 | 432<br>2.8<br>53<br>53 |
| 32.267 | 729 | 2.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 166<br>4.2<br>60<br>60 | 130<br>4.4<br>126<br>126 | 309<br>2.3<br>47<br>46 | 246<br>2.6<br>93<br>93 | 231<br>2.7<br>109<br>109 | 419<br>1.7<br>60<br>60 | 342<br>1.7<br>126<br>124 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1373$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 199 | 331 | 246 | 435 | 303 | | | | | | | $M_2$ | 7.65 | 996 | 15.156 |
| 4.3 | 3.0 | 3.5 | 2.3 | 2.8 | | | | | | | c | | | |
| 213 | 99 | 213 | 89 | 213 | | | | | | | $n_{2\,Eck}$ | | | |
| 197 | 99 | 189 | 89 | 182 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 387 | 300 | 580 | 418 | 744 | 463 | $M_2$ | 7.65 | 1340 | 15.156 |
| | | | | | 3.4 | 3.9 | 2.3 | 2.8 | 1.8 | 2.6 | c | | | |
| | | | | | 94 | 198 | 94 | 198 | 89 | 198 | $n_{2\,Eck}$ | | | |
| | | | | | 94 | 146 | 94 | 146 | 89 | 146 | $n_{2\,th}$ | | | |
| 226 | 377 | 280 | 495 | 344 | | | | | | | $M_2$ | 7.49 | 1132 | 17.222 |
| 4.3 | 3.0 | 3.5 | 2.3 | 2.8 | | | | | | | c | | | |
| 187 | 87 | 187 | 78 | 187 | | | | | | | $n_{2\,Eck}$ | | | |
| 173 | 87 | 166 | 78 | 160 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 442 | 342 | 661 | 477 | 847 | 527 | $M_2$ | 7.49 | 1373 | 17.222 |
| | | | | | 3.0 | 3.5 | 2.1 | 2.6 | 1.6 | 2.3 | c | | | |
| | | | | | 83 | 174 | 83 | 174 | 78 | 174 | $n_{2\,Eck}$ | | | |
| | | | | | 83 | 128 | 83 | 128 | 78 | 128 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.50 | 675 | 20.533 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 272 | 452 | 337 | 593 | 413 | | | | | | | $M_2$ | 4.50 | 1055 | 20.533 |
| 3.3 | 2.3 | 2.7 | 1.8 | 2.2 | | | | | | | c | | | |
| 157 | 73 | 157 | 66 | 157 | | | | | | | $n_{2\,Eck}$ | | | |
| 157 | 73 | 157 | 66 | 156 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.41 | 767 | 23.333 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 309 | 514 | 383 | 674 | 469 | | | | | | | $M_2$ | 4.41 | 1199 | 23.333 |
| 3.3 | 2.3 | 2.7 | 1.8 | 2.2 | | | | | | | c | | | |
| 138 | 64 | 138 | 58 | 138 | | | | | | | $n_{2\,Eck}$ | | | |
| 138 | 64 | 138 | 58 | 137 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 3.38 | 703 | 24.933 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 332 | 551 | 410 | 722 | 503 | | | | | | | $M_2$ | 3.38 | 1096 | 24.933 |
| 2.9 | 2.0 | 2.3 | 1.5 | 1.9 | | | | | | | c | | | |
| 129 | 60 | 129 | 54 | 129 | | | | | | | $n_{2\,Eck}$ | | | |
| 129 | 60 | 129 | 54 | 129 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 3.32 | 799 | 28.333 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 378 | 626 | 466 | 820 | 572 | | | | | | | $M_2$ | 3.32 | 1245 | 28.333 |
| 2.9 | 2.0 | 2.3 | 1.5 | 1.9 | | | | | | | c | | | |
| 114 | 53 | 114 | 48 | 114 | | | | | | | $n_{2\,Eck}$ | | | |
| 114 | 53 | 114 | 48 | 114 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.25 | 729 | 32.267 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

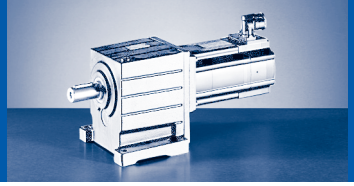
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1373$ Nm

| GST09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 32.267 | 1136 | 2.25 | $M_2$ | | | | | | | | 279 | 227 | 494 |
| | | | c | | | | | | | | 4.0 | 4.1 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 47 | 112 | 47 |
| | | | $n_{2\,th}$ | | | | | | | | 46 | 111 | 46 |
| 36.667 | 829 | 2.21 | $M_2$ | 189 | 148 | 351 | 280 | 262 | 477 | 388 | | | |
| | | | c | 4.2 | 4.4 | 2.3 | 2.6 | 2.7 | 1.7 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 53 | 111 | 41 | 82 | 96 | 53 | 111 | | | |
| | | | $n_{2\,th}$ | 53 | 110 | 41 | 82 | 96 | 53 | 109 | | | |
| 36.667 | 1291 | 2.21 | $M_2$ | | | | | | | | 317 | 258 | 562 |
| | | | c | | | | | | | | 4.0 | 4.1 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 41 | 98 | 41 |
| | | | $n_{2\,th}$ | | | | | | | | 41 | 98 | 41 |
| 39.160 | 738 | 1.64 | $M_2$ | 204 | 159 | 376 | 300 | 281 | 511 | 416 | | | |
| | | | c | 3.5 | 3.7 | 1.9 | 2.2 | 2.2 | 1.4 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 50 | 103 | 38 | 77 | 90 | 50 | 103 | | | |
| | | | $n_{2\,th}$ | 50 | 103 | 38 | 77 | 90 | 50 | 103 | | | |
| 39.160 | 1150 | 1.64 | $M_2$ | | | | | | | | 341 | 278 | 602 |
| | | | c | | | | | | | | 3.3 | 3.4 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 38 | 92 | 38 |
| | | | $n_{2\,th}$ | | | | | | | | 38 | 92 | 38 |
| 44.500 | 839 | 1.62 | $M_2$ | 231 | 180 | 428 | 340 | 319 | 580 | 472 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 44 | 91 | 34 | 67 | 79 | 44 | 91 | | | |
| | | | $n_{2\,th}$ | 44 | 91 | 34 | 67 | 79 | 44 | 91 | | | |
| 44.500 | 1307 | 1.62 | $M_2$ | | | | | | | | 388 | 314 | 684 |
| | | | c | | | | | | | | 3.3 | 3.8 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 34 | 81 | 34 |
| | | | $n_{2\,th}$ | | | | | | | | 34 | 81 | 34 |
| 49.500 | 748 | 1.12 | $M_2$ | 259 | 202 | 478 | 380 | 357 | 647 | 527 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 39 | 82 | 30 | 61 | 71 | 39 | 82 | | | |
| | | | $n_{2\,th}$ | 39 | 82 | 30 | 61 | 71 | 39 | 82 | | | |
| 56.250 | 850 | 1.10 | $M_2$ | 294 | 229 | 543 | 432 | 405 | 736 | 599 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 35 | 72 | 27 | 53 | 63 | 35 | 72 | | | |
| | | | $n_{2\,th}$ | 35 | 72 | 27 | 53 | 63 | 35 | 72 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1373$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 432<br>2.3<br>100<br>100 | 716<br>1.6<br>47<br>46 | 534<br>1.9<br>100<br>100 | 937<br>1.2<br>42<br>42 | 654<br>1.5<br>100<br>100 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.25 | 1136 | 32.267 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.21 | 829 | 36.667 |
| 491<br>2.3<br>88<br>88 | 813<br>1.6<br>41<br>41 | 606<br>1.9<br>88<br>88 | 1065<br>1.2<br>37<br>37 | 743<br>1.5<br>88<br>88 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.21 | 1291 | 36.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 738 | 39.160 |
| 527<br>1.9<br>82<br>82 | 871<br>1.3<br>38<br>38 | 650<br>1.6<br>82<br>82 | 1140<br>1.0<br>35<br>34 | 796<br>1.3<br>82<br>82 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 1150 | 39.160 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.62 | 839 | 44.500 |
| 598<br>2.1<br>73<br>72 | 990<br>1.3<br>34<br>34 | 737<br>1.7<br>73<br>72 | 1295<br>1.0<br>30<br>30 | 903<br>1.4<br>73<br>72 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.62 | 1307 | 44.500 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.12 | 748 | 49.500 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.10 | 850 | 56.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

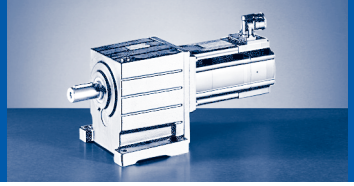
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1623$ Nm

| GST09-3S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 40.136 | 964 | 2.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 139<br>5.4<br>101<br>101 | 166<br>4.6<br>101<br>101 | | | | |
| 40.136 | 1245 | 2.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 200<br>5.9<br>49<br>49 | | 375<br>3.3<br>37<br>37 | 298<br>3.7<br>75<br>75 |
| 40.136 | 1344 | 2.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 43.267 | 892 | 1.55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 150<br>5.1<br>94<br>94 | 180<br>4.3<br>94<br>94 | | | | |
| 43.267 | 1152 | 1.55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 218<br>5.1<br>45<br>45 | 169<br>5.9<br>94<br>94 | 406<br>2.8<br>35<br>35 | 322<br>3.5<br>69<br>69 |
| 43.267 | 1290 | 1.55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 49.167 | 1013 | 1.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 171<br>5.1<br>82<br>82 | 204<br>4.3<br>82<br>82 | | | | |
| 49.167 | 1310 | 1.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 247<br>5.1<br>40<br>40 | 192<br>5.9<br>82<br>82 | 461<br>2.8<br>31<br>31 | 366<br>3.5<br>61<br>61 |
| 49.167 | 1466 | 1.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 53.044 | 1093 | 1.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 184<br>5.1<br>76<br>76 | 220<br>4.3<br>76<br>76 | | | | |
| 53.044 | 1379 | 1.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 267<br>5.0<br>37<br>37 | 207<br>5.7<br>76<br>76 | 498<br>2.7<br>28<br>28 | 395<br>3.4<br>57<br>57 |
| 60.278 | 1242 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 209<br>5.1<br>67<br>67 | 250<br>4.3<br>67<br>67 | | | | |
| 60.278 | 1565 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 304<br>4.9<br>32<br>32 | 235<br>5.7<br>67<br>67 | 566<br>2.7<br>25<br>25 | 449<br>3.4<br>50<br>50 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1623$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.14 | 964 | 40.136 |
| 280<br>3.7<br>88<br>88 | 510<br>2.4<br>49<br>49 | 416<br>2.4<br>101<br>101 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.14 | 1245 | 40.136 |
| | | | 343<br>3.8<br>37<br>37 | 279<br>4.0<br>90<br>89 | 606<br>2.2<br>37<br>37 | 530<br>2.2<br>80<br>80 | 877<br>1.5<br>37<br>37 | 654<br>1.8<br>80<br>80 | 1149<br>1.2<br>34<br>34 | 802<br>1.5<br>80<br>80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.14 | 1344 | 40.136 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.55 | 892 | 43.267 |
| 302<br>3.5<br>82<br>81 | 552<br>2.1<br>45<br>45 | 449<br>2.3<br>94<br>94 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.55 | 1152 | 43.267 |
| | | | 371<br>3.4<br>35<br>35 | 301<br>3.9<br>83<br>83 | 655<br>2.0<br>35<br>35 | 572<br>2.2<br>75<br>75 | 947<br>1.4<br>35<br>35 | 705<br>1.8<br>75<br>75 | 1240<br>1.0<br>31<br>31 | 864<br>1.5<br>75<br>75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.55 | 1290 | 43.267 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.53 | 1013 | 49.167 |
| 343<br>3.5<br>72<br>72 | 627<br>2.1<br>40<br>40 | 510<br>2.3<br>82<br>82 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.53 | 1310 | 49.167 |
| | | | 421<br>3.4<br>31<br>31 | 342<br>3.9<br>73<br>73 | 744<br>2.0<br>31<br>31 | 650<br>2.2<br>66<br>66 | 1077<br>1.4<br>31<br>31 | 802<br>1.8<br>66<br>66 | 1409<br>1.0<br>28<br>27 | 982<br>1.5<br>66<br>66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.53 | 1466 | 49.167 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 1093 | 53.044 |
| 371<br>3.4<br>67<br>66 | 677<br>2.0<br>37<br>37 | 550<br>2.2<br>76<br>76 | 457<br>3.0<br>28<br>28 | 371<br>3.4<br>68<br>68 | 805<br>1.7<br>28<br>28 | 703<br>1.9<br>61<br>61 | 1164<br>1.2<br>28<br>28 | 867<br>1.5<br>61<br>61 | | 1062<br>1.3<br>61<br>61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 1379 | 53.044 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.37 | 1242 | 60.278 |
| 421<br>3.4<br>59<br>58 | 769<br>2.0<br>32<br>32 | 625<br>2.2<br>67<br>67 | 519<br>3.0<br>25<br>25 | 421<br>3.4<br>60<br>60 | 915<br>1.7<br>25<br>25 | 799<br>1.9<br>54<br>54 | 1322<br>1.2<br>25<br>25 | 985<br>1.5<br>54<br>54 | | 1206<br>1.3<br>54<br>54 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.37 | 1565 | 60.278 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

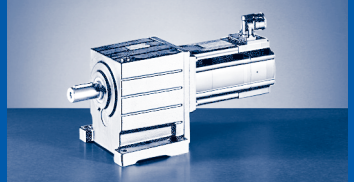
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1623$ Nm

| GST09-3S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 71.867 | 1477 | 1.17 | $M_2$ | | | | | 250 | 298 | 366 | 284 | 679 | 540 |
| | | | c | | | | | 5.1 | 4.3 | 3.9 | 4.5 | 2.2 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | 56 | 56 | 27 | 56 | 21 | 42 |
| | | | $n_{2\,th}$ | | | | | 56 | 56 | 27 | 56 | 21 | 42 |
| 81.667 | 1584 | 1.16 | $M_2$ | | | | | 285 | 340 | 417 | 324 | 772 | 614 |
| | | | c | | | | | 4.8 | 4.1 | 3.7 | 4.3 | 2.0 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | 50 | 50 | 24 | 50 | 18 | 37 |
| | | | $n_{2\,th}$ | | | | | 50 | 50 | 24 | 50 | 18 | 37 |
| 93.541 | 1545 | 0.71 | $M_2$ | | | | 265 | 329 | 392 | | | | |
| | | | c | | | | 5.2 | 4.1 | 3.5 | | | | |
| | | | $n_{2\,Eck}$ | | | | 40 | 43 | 43 | | | | |
| | | | $n_{2\,th}$ | | | | 40 | 43 | 43 | | | | |
| 93.541 | 1613 | 0.71 | $M_2$ | | | | | | | 480 | 373 | 886 | 706 |
| | | | c | | | | | | | 3.3 | 3.8 | 1.8 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | 21 | 43 | 16 | 32 |
| | | | $n_{2\,th}$ | | | | | | | 21 | 43 | 16 | 32 |
| 99.167 | 1596 | 1.07 | $M_2$ | | | | 281 | 349 | 416 | 510 | 397 | 941 | 749 |
| | | | c | | | | 5.0 | 4.0 | 3.4 | 3.1 | 3.5 | 1.7 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 38 | 41 | 41 | 20 | 41 | 15 | 30 |
| | | | $n_{2\,th}$ | | | | 38 | 41 | 41 | 20 | 41 | 15 | 30 |
| 113.585 | 1613 | 0.65 | $M_2$ | | | 237 | 324 | 402 | 478 | 586 | 456 | 1080 | 861 |
| | | | c | | | 5.9 | 4.5 | 3.5 | 3.0 | 2.7 | 3.1 | 1.5 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 26 |
| | | | $n_{2\,th}$ | | | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 26 |
| 129.074 | 1612 | 0.65 | $M_2$ | | | 271 | 371 | 458 | 546 | 669 | 521 | 1230 | 980 |
| | | | c | | | 5.1 | 3.9 | 3.1 | 2.6 | 2.4 | 2.8 | 1.3 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 31 | 29 | 31 | 31 | 15 | 31 | 12 | 23 |
| | | | $n_{2\,th}$ | | | 31 | 29 | 31 | 31 | 15 | 31 | 12 | 23 |
| 141.289 | 1316 | 0.46 | $M_2$ | | 192 | | | | | | | | |
| | | | c | | 5.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 29 | | | | | | | | |
| | | | $n_{2\,th}$ | | 29 | | | | | | | | |
| 141.289 | 1613 | 0.46 | $M_2$ | | | 299 | 407 | 503 | 599 | 734 | 571 | 1348 | 1075 |
| | | | c | | | 4.7 | 3.6 | 2.8 | 2.4 | 2.2 | 2.5 | 1.2 | 1.5 |
| | | | $n_{2\,Eck}$ | | | 29 | 27 | 29 | 29 | 14 | 29 | 11 | 21 |
| | | | $n_{2\,th}$ | | | 29 | 27 | 29 | 29 | 14 | 29 | 11 | 21 |
| 160.556 | 1495 | 0.46 | $M_2$ | | 218 | | | | | | | | |
| | | | c | | 5.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 25 | | | | | | | | |
| | | | $n_{2\,th}$ | | 25 | | | | | | | | |
| 160.556 | 1623 | 0.46 | $M_2$ | | | 341 | 465 | 574 | 682 | 836 | 651 | 1533 | 1223 |
| | | | c | | | 4.2 | 3.2 | 2.5 | 2.1 | 1.9 | 2.2 | 1.1 | 1.3 |
| | | | $n_{2\,Eck}$ | | | 25 | 23 | 25 | 25 | 12 | 25 | 9 | 19 |
| | | | $n_{2\,th}$ | | | 25 | 23 | 25 | 25 | 12 | 25 | 9 | 19 |
| 182.844 | 1365 | 0.30 | $M_2$ | 199 | 252 | | | | | | | | |
| | | | c | 5.9 | 4.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 22 | 22 | | | | | | | | |
| | | | $n_{2\,th}$ | 22 | 22 | | | | | | | | |
| 182.844 | 1613 | 0.30 | $M_2$ | | | 391 | 532 | 656 | 779 | | | | |
| | | | c | | | 3.6 | 2.8 | 2.2 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | | | 22 | 21 | 22 | 22 | | | | |
| | | | $n_{2\,th}$ | | | 22 | 21 | 22 | 22 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1623$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 506<br>2.7<br>49<br>49 | 921<br>1.6<br>27<br>27 | 749<br>1.8<br>56<br>56 | 623<br>2.3<br>21<br>21 | 506<br>2.7<br>50<br>50 | 1095<br>1.3<br>21<br>21 | 957<br>1.5<br>45<br>45 | | 1179<br>1.2<br>45<br>45 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.17 | 1477 | 71.867 |
| 576<br>2.6<br>43<br>43 | 1048<br>1.5<br>24<br>24 | 853<br>1.7<br>50<br>50 | 709<br>2.2<br>18<br>18 | 576<br>2.6<br>44<br>44 | 1245<br>1.3<br>18<br>18 | 1088<br>1.4<br>40<br>39 | | 1340<br>1.2<br>40<br>39 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.16 | 1584 | 81.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.71 | 1545 | 93.541 |
| 661<br>2.3<br>38<br>38 | 1203<br>1.3<br>21<br>21 | 978<br>1.5<br>43<br>43 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.71 | 1613 | 93.541 |
| 702<br>2.1<br>36<br>36 | 1276<br>1.3<br>20<br>20 | 1038<br>1.4<br>41<br>41 | 864<br>1.8<br>15<br>15 | 703<br>2.1<br>36<br>36 | 1516<br>1.1<br>15<br>15 | 1324<br>1.2<br>33<br>33 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.07 | 1596 | 99.167 |
| 807<br>1.9<br>31<br>31 | 1464<br>1.1<br>17<br>17 | 1191<br>1.2<br>36<br>36 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.65 | 1613 | 113.585 |
| 919<br>1.7<br>27<br>27 | | 1356<br>1.1<br>31<br>31 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.65 | 1612 | 129.074 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.46 | 1316 | 141.289 |
| 1007<br>1.5<br>25<br>25 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.46 | 1613 | 141.289 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.46 | 1495 | 160.556 |
| 1147<br>1.3<br>22<br>22 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.46 | 1623 | 160.556 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.30 | 1365 | 182.844 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.30 | 1613 | 182.844 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

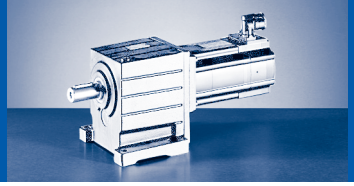
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1623$ Nm

| GST09-3S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 207.778 | 1551 | 0.30 | $M_2$ | 226 | 286 | | | | | | | | |
| | | | c | 5.9 | 4.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 20 | 20 | | | | | | | | |
| | | | $n_{2\,th}$ | 19 | 19 | | | | | | | | |
| 207.778 | 1623 | 0.30 | $M_2$ | | | 446 | 606 | 747 | 888 | | | | |
| | | | c | | | 3.2 | 2.5 | 2.0 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | | | 20 | 18 | 20 | 20 | | | | |
| | | | $n_{2\,th}$ | | | 19 | 18 | 19 | 19 | | | | |
| 236.622 | 1613 | 0.28 | $M_2$ | 259 | 327 | 510 | 693 | 853 | 1013 | | | | |
| | | | c | 5.4 | 4.3 | 2.8 | 2.1 | 1.7 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 17 | 17 | 17 | 16 | 17 | 17 | | | | |
| | | | $n_{2\,th}$ | 17 | 17 | 17 | 16 | 17 | 17 | | | | |
| 252.167 | 1569 | 0.21 | $M_2$ | 277 | 350 | | | | | | | | |
| | | | c | 4.9 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 16 | 16 | | | | | | | | |
| | | | $n_{2\,th}$ | 16 | 16 | | | | | | | | |
| 252.167 | 1623 | 0.21 | $M_2$ | | | 545 | 739 | 910 | 1080 | | | | |
| | | | c | | | 2.7 | 2.0 | 1.6 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | | | 16 | 15 | 16 | 16 | | | | |
| | | | $n_{2\,th}$ | | | 16 | 15 | 16 | 16 | | | | |
| 268.889 | 1623 | 0.28 | $M_2$ | 296 | 374 | 582 | 789 | 971 | 1153 | | | | |
| | | | c | 4.8 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 15 | 15 | 15 | 14 | 15 | 15 | | | | |
| | | | $n_{2\,th}$ | 15 | 15 | 15 | 14 | 15 | 15 | | | | |
| 326.333 | 1623 | 0.20 | $M_2$ | 363 | 457 | 709 | 961 | 1182 | 1403 | | | | |
| | | | c | 3.9 | 3.1 | 2.1 | 1.6 | 1.2 | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 12 | 12 | 12 | 12 | 12 | 12 | | | | |
| | | | $n_{2\,th}$ | 12 | 12 | 12 | 11 | 12 | 12 | | | | |
| 363.000 | 1613 | 0.26 | $M_2$ | 405 | 511 | | | | | | | | |
| | | | c | 3.5 | 2.8 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 11 | | | | | | | | |
| | | | $n_{2\,th}$ | 11 | 11 | | | | | | | | |
| 412.500 | 1623 | 0.18 | $M_2$ | 463 | 582 | | | | | | | | |
| | | | c | 3.1 | 2.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 10 | | | | | | | | |
| | | | $n_{2\,th}$ | 10 | 10 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1623$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.30 | 1551 | 207.778 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.30 | 1623 | 207.778 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.28 | 1613 | 236.622 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.21 | 1569 | 252.167 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.21 | 1623 | 252.167 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.28 | 1623 | 268.889 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.20 | 1623 | 326.333 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.26 | 1613 | 363.000 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.18 | 1623 | 412.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

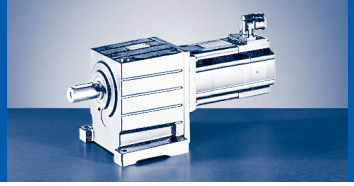
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2396$ Nm

| GST11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 4.056 | 888 | 82.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 4.457 | 976 | 79.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 5.324 | 982 | 55.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 5.850 | 1080 | 53.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 6.400 | 1118 | 45.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 6.864 | 1502 | 67.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 7.800 | 1707 | 65.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.010 | 1663 | 46.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.856 | 1721 | 40.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 11.200 | 1956 | 39.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 12.571 | 1191 | 29.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 163<br>5.4<br>257<br>186 | 271<br>4.2<br>119<br>119 | 202<br>4.4<br>257<br>178 | 357<br>3.3<br>107<br>107 |
| 12.571 | 1849 | 29.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 14.286 | 1353 | 28.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 185<br>5.4<br>226<br>164 | 308<br>4.2<br>105<br>105 | 230<br>4.4<br>226<br>157 | 406<br>3.3<br>95<br>95 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2396$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | 150 | | 194 | 120 | $M_2$ | 82.20 | 888 | 4.056 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 351 | | 333 | 740 | $n_{2\,Eck}$ | | | |
| | | | 351 | | 333 | 428 | $n_{2\,th}$ | | | |
| | | | 165 | | 213 | 132 | $M_2$ | 79.00 | 976 | 4.457 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 320 | | 303 | 673 | $n_{2\,Eck}$ | | | |
| | | | 320 | | 303 | 390 | $n_{2\,th}$ | | | |
| | | | 199 | 143 | 256 | 159 | $M_2$ | 55.40 | 982 | 5.324 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 268 | 564 | 254 | 564 | $n_{2\,Eck}$ | | | |
| | | | 268 | 374 | 254 | 365 | $n_{2\,th}$ | | | |
| | | | 218 | 157 | 281 | 175 | $M_2$ | 53.50 | 1080 | 5.850 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 244 | 513 | 231 | 513 | $n_{2\,Eck}$ | | | |
| | | | 244 | 340 | 231 | 333 | $n_{2\,th}$ | | | |
| | | | 239 | 173 | 308 | 192 | $M_2$ | 45.70 | 1118 | 6.400 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 223 | 469 | 211 | 469 | $n_{2\,Eck}$ | | | |
| | | | 223 | 316 | 211 | 310 | $n_{2\,th}$ | | | |
| | | | 254 | | 328 | 203 | $M_2$ | 67.50 | 1502 | 6.864 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 208 | | 197 | 437 | $n_{2\,Eck}$ | | | |
| | | | 208 | | 197 | 253 | $n_{2\,th}$ | | | |
| | | | 288 | | 372 | 231 | $M_2$ | 65.10 | 1707 | 7.800 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 183 | | 173 | 385 | $n_{2\,Eck}$ | | | |
| | | | 183 | | 173 | 223 | $n_{2\,th}$ | | | |
| | | | 336 | 243 | 433 | 269 | $M_2$ | 46.80 | 1663 | 9.010 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 158 | 333 | 150 | 333 | $n_{2\,Eck}$ | | | |
| | | | 158 | 221 | 150 | 216 | $n_{2\,th}$ | | | |
| | | | 369 | 266 | 475 | 295 | $M_2$ | 40.20 | 1721 | 9.856 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 145 | 304 | 137 | 304 | $n_{2\,Eck}$ | | | |
| | | | 145 | 205 | 137 | 201 | $n_{2\,th}$ | | | |
| | | | 419 | 302 | 540 | 335 | $M_2$ | 39.00 | 1956 | 11.200 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 127 | 268 | 121 | 268 | $n_{2\,Eck}$ | | | |
| | | | 127 | 181 | 121 | 177 | $n_{2\,th}$ | | | |
| 249 | | | | | | | $M_2$ | 29.40 | 1191 | 12.571 |
| 3.6 | | | | | | | c | | | |
| 257 | | | | | | | $n_{2\,Eck}$ | | | |
| 171 | | | | | | | $n_{2\,th}$ | | | |
| | 314 | 244 | 474 | 342 | 609 | 379 | $M_2$ | 29.40 | 1849 | 12.571 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 113 | 239 | 113 | 239 | 107 | 239 | $n_{2\,Eck}$ | | | |
| | 113 | 176 | 113 | 176 | 107 | 173 | $n_{2\,th}$ | | | |
| 283 | | | | | | | $M_2$ | 28.70 | 1353 | 14.286 |
| 3.6 | | | | | | | c | | | |
| 226 | | | | | | | $n_{2\,Eck}$ | | | |
| 150 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

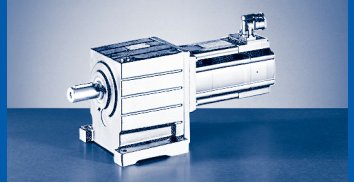
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2396$ Nm

| GST11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 14.286 | 2101 | 28.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 15.400 | 1947 | 23.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 17.500 | 2212 | 22.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 20.289 | 1323 | 14.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 305<br>4.2<br>74<br>74 | 266<br>4.2<br>159<br>147 | 444<br>2.9<br>74<br>74 | 330<br>3.4<br>159<br>141 | 583<br>2.2<br>67<br>67 |
| 20.289 | 2057 | 14.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 23.056 | 1503 | 14.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 346<br>4.2<br>65<br>65 | 303<br>4.2<br>140<br>129 | 504<br>2.9<br>65<br>65 | 375<br>3.4<br>140<br>124 | 662<br>2.2<br>59<br>59 |
| 23.056 | 2338 | 14.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 24.933 | 1357 | 10.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 377<br>3.5<br>60<br>60 | 330<br>3.5<br>129<br>129 | 548<br>2.4<br>60<br>60 | 408<br>2.9<br>129<br>129 | 719<br>1.9<br>54<br>54 |
| 24.933 | 2108 | 10.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 28.333 | 1542 | 10.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 428<br>3.5<br>53<br>53 | 375<br>3.5<br>114<br>114 | 623<br>2.4<br>53<br>53 | 464<br>2.9<br>114<br>114 | 817<br>1.9<br>48<br>48 |
| 28.333 | 2396 | 10.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 32.267 | 1407 | 7.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 276<br>4.9<br>47<br>46 | 225<br>5.1<br>112<br>111 | 492<br>2.8<br>47<br>46 | 430<br>2.8<br>100<br>100 | 713<br>2.0<br>47<br>46 | 531<br>2.3<br>100<br>100 | 934<br>1.5<br>42<br>42 |
| 36.667 | 1598 | 6.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 314<br>4.9<br>41<br>41 | 256<br>5.1<br>98<br>98 | 559<br>2.8<br>41<br>41 | 489<br>2.8<br>88<br>88 | 810<br>2.0<br>41<br>41 | 604<br>2.3<br>88<br>88 | 1062<br>1.5<br>37<br>37 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

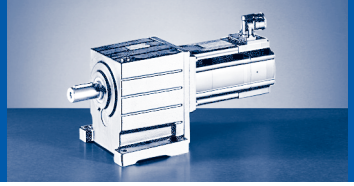


## $M_{2\,GN} \leq 2396$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | 356 | 277 | 538 | 389 | 693 | 431 | $M_2$ | 28.70 | 2101 | 14.286 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 100 | 210 | 100 | 210 | 95 | 210 | $n_{2\,Eck}$ | | | |
| | 100 | 155 | 100 | 155 | 95 | 152 | $n_{2\,th}$ | | | |
| | 388 | 299 | 584 | 420 | 750 | 465 | $M_2$ | 23.00 | 1947 | 15.400 |
| | 4.8 | 5.6 | 3.3 | 4.1 | 2.6 | 3.7 | c | | | |
| | 93 | 195 | 93 | 195 | 88 | 195 | $n_{2\,Eck}$ | | | |
| | 93 | 144 | 93 | 144 | 88 | 144 | $n_{2\,th}$ | | | |
| | 440 | 340 | 663 | 477 | 852 | 528 | $M_2$ | 22.50 | 2212 | 17.500 |
| | 4.8 | 5.6 | 3.3 | 4.1 | 2.6 | 3.7 | c | | | |
| | 81 | 171 | 81 | 171 | 77 | 171 | $n_{2\,Eck}$ | | | |
| | 81 | 126 | 81 | 126 | 77 | 126 | $n_{2\,th}$ | | | |
| 406 | | | | | | | $M_2$ | 14.30 | 1323 | 20.289 |
| 2.8 | | | | | | | c | | | |
| 159 | | | | | | | $n_{2\,Eck}$ | | | |
| 136 | | | | | | | $n_{2\,th}$ | | | |
| | 516 | 399 | 774 | 558 | 993 | 617 | $M_2$ | 14.30 | 2057 | 20.289 |
| | 3.9 | 4.5 | 2.6 | 3.3 | 2.1 | 3.0 | c | | | |
| | 70 | 148 | 70 | 148 | 67 | 148 | $n_{2\,Eck}$ | | | |
| | 70 | 109 | 70 | 109 | 67 | 109 | $n_{2\,th}$ | | | |
| 461 | | | | | | | $M_2$ | 14.10 | 1503 | 23.056 |
| 2.8 | | | | | | | c | | | |
| 140 | | | | | | | $n_{2\,Eck}$ | | | |
| 119 | | | | | | | $n_{2\,th}$ | | | |
| | 586 | 453 | 880 | 634 | 1128 | 701 | $M_2$ | 14.10 | 2338 | 23.056 |
| | 3.9 | 4.5 | 2.6 | 3.3 | 2.1 | 3.0 | c | | | |
| | 62 | 130 | 62 | 130 | 59 | 130 | $n_{2\,Eck}$ | | | |
| | 62 | 96 | 62 | 96 | 59 | 96 | $n_{2\,th}$ | | | |
| 501 | | | | | | | $M_2$ | 10.60 | 1357 | 24.933 |
| 2.4 | | | | | | | c | | | |
| 129 | | | | | | | $n_{2\,Eck}$ | | | |
| 125 | | | | | | | $n_{2\,th}$ | | | |
| | 638 | 494 | 956 | 689 | 1225 | 762 | $M_2$ | 10.60 | 2108 | 24.933 |
| | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.5 | c | | | |
| | 57 | 120 | 57 | 120 | 54 | 120 | $n_{2\,Eck}$ | | | |
| | 57 | 89 | 57 | 89 | 54 | 89 | $n_{2\,th}$ | | | |
| 569 | | | | | | | $M_2$ | 10.40 | 1542 | 28.333 |
| 2.4 | | | | | | | c | | | |
| 114 | | | | | | | $n_{2\,Eck}$ | | | |
| 110 | | | | | | | $n_{2\,th}$ | | | |
| | 725 | 561 | 1086 | 783 | 1392 | 866 | $M_2$ | 10.40 | 2396 | 28.333 |
| | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.5 | c | | | |
| | 50 | 106 | 50 | 106 | 48 | 106 | $n_{2\,Eck}$ | | | |
| | 50 | 78 | 50 | 78 | 48 | 78 | $n_{2\,th}$ | | | |
| 651 | | | | | | | $M_2$ | 7.04 | 1407 | 32.267 |
| 1.9 | | | | | | | c | | | |
| 100 | | | | | | | $n_{2\,Eck}$ | | | |
| 100 | | | | | | | $n_{2\,th}$ | | | |
| 740 | | | | | | | $M_2$ | 6.93 | 1598 | 36.667 |
| 1.9 | | | | | | | c | | | |
| 88 | | | | | | | $n_{2\,Eck}$ | | | |
| 88 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



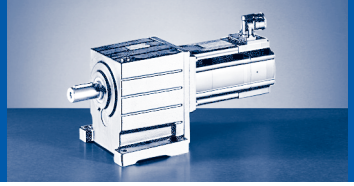


## $M_{2\,GN} \leq 2396$ Nm

| GST11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 39.160 | 1424 | 5.15 | $M_2$ | 338 | 275 | 599 | 524 | 868 | 647 | 1137 |
| | | | c | 4.1 | 4.2 | 2.3 | 2.4 | 1.6 | 1.9 | 1.3 |
| | | | $n_{2\,Eck}$ | 38 | 92 | 38 | 82 | 38 | 82 | 35 |
| | | | $n_{2\,th}$ | 38 | 92 | 38 | 82 | 38 | 82 | 34 |
| 44.500 | 1618 | 5.08 | $M_2$ | 385 | 311 | 681 | 594 | 987 | 734 | 1292 |
| | | | c | 4.1 | 4.7 | 2.3 | 2.6 | 1.6 | 2.1 | 1.3 |
| | | | $n_{2\,Eck}$ | 34 | 81 | 34 | 73 | 34 | 73 | 30 |
| | | | $n_{2\,th}$ | 34 | 81 | 34 | 72 | 34 | 72 | 30 |
| 49.500 | 1441 | 3.52 | $M_2$ | 432 | 350 | 761 | 665 | 1101 | 820 | 1441 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 30 | 73 | 30 | 65 | 30 | 65 | 27 |
| | | | $n_{2\,th}$ | 30 | 73 | 30 | 65 | 30 | 65 | 27 |
| 56.250 | 1637 | 3.44 | $M_2$ | 490 | 398 | 865 | 755 | 1251 | 932 | 1637 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 27 | 64 | 27 | 57 | 27 | 57 | 24 |
| | | | $n_{2\,th}$ | 27 | 64 | 27 | 57 | 27 | 57 | 24 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2396$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 793<br>1.6<br>82<br>82 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.15 | 1424 | 39.160 |
| 900<br>1.7<br>73<br>72 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.08 | 1618 | 44.500 |
| 1004<br>1.4<br>65<br>65 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 1441 | 49.500 |
| 1141<br>1.4<br>57<br>57 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.44 | 1637 | 56.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

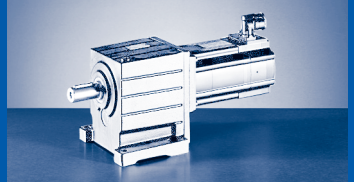
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2848$ Nm

| GST11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 40.816 | 1216 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 167<br>5.7<br>99<br>99 | | | | | |
| 40.816 | 1565 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 378<br>4.0<br>37<br>37 | 301<br>4.5<br>74<br>74 | 282<br>4.6<br>86<br>86 |
| 40.816 | 2165 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 44.000 | 1687 | 5.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 407<br>4.0<br>34<br>34 | 322<br>5.0<br>68<br>68 | 302<br>5.1<br>80<br>80 |
| 44.000 | 2334 | 5.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 50.000 | 1917 | 5.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 463<br>4.0<br>30<br>30 | 366<br>5.0<br>60<br>60 | 343<br>5.1<br>71<br>71 |
| 50.000 | 2652 | 5.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 57.968 | 2222 | 4.77 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 537<br>4.0<br>26<br>26 | 425<br>5.0<br>52<br>52 | 398<br>5.1<br>61<br>61 |
| 57.968 | 2577 | 4.77 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 61.250 | 2017 | 4.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 570<br>3.5<br>25<br>24 | 452<br>4.3<br>49<br>49 | 424<br>4.4<br>58<br>58 |
| 61.250 | 2725 | 4.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 71.011 | 2339 | 3.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 661<br>3.5<br>21<br>21 | 524<br>4.3<br>42<br>42 | 491<br>4.4<br>50<br>50 |
| 71.011 | 2637 | 3.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2848$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 1216 | 40.816 |
| 516<br>3.0<br>48<br>48 | 420<br>3.0<br>99<br>99 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 1565 | 40.816 |
| | | | | 608<br>3.5<br>37<br>37 | 532<br>3.5<br>79<br>79 | 884<br>2.4<br>37<br>37 | 658<br>2.8<br>79<br>79 | 1160<br>1.9<br>33<br>33 | 808<br>2.3<br>79<br>79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 2165 | 40.816 |
| 556<br>3.0<br>44<br>44 | 451<br>3.3<br>92<br>92 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.66 | 1687 | 44.000 |
| | | | | 655<br>3.5<br>34<br>34 | 571<br>3.9<br>73<br>73 | 953<br>2.4<br>34<br>34 | 707<br>3.2<br>73<br>73 | 1250<br>1.9<br>31<br>31 | 868<br>2.6<br>73<br>73 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.66 | 2334 | 44.000 |
| 632<br>3.0<br>39<br>39 | 513<br>3.3<br>81<br>81 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.60 | 1917 | 50.000 |
| | | | | 745<br>3.5<br>30<br>30 | 649<br>3.9<br>65<br>65 | 1083<br>2.4<br>30<br>30 | 803<br>3.2<br>65<br>65 | 1421<br>1.9<br>27<br>27 | 987<br>2.6<br>65<br>65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.60 | 2652 | 50.000 |
| 732<br>3.0<br>34<br>34 | 595<br>3.3<br>70<br>70 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.77 | 2222 | 57.968 |
| | | 488<br>5.1<br>26<br>26 | 394<br>5.8<br>62<br>62 | 869<br>2.9<br>26<br>26 | 757<br>3.2<br>56<br>56 | 1261<br>2.0<br>26<br>26 | 937<br>2.6<br>56<br>56 | 1652<br>1.6<br>23<br>23 | 1149<br>2.2<br>56<br>56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.77 | 2577 | 57.968 |
| 777<br>2.6<br>32<br>32 | 632<br>2.8<br>66<br>66 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.08 | 2017 | 61.250 |
| | | 516<br>5.1<br>25<br>24 | 417<br>5.8<br>59<br>59 | 918<br>2.9<br>25<br>24 | 800<br>3.3<br>53<br>53 | 1332<br>2.0<br>25<br>24 | 989<br>2.6<br>53<br>53 | 1746<br>1.6<br>22<br>22 | 1214<br>2.2<br>53<br>53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.08 | 2725 | 61.250 |
| 901<br>2.6<br>28<br>27 | 732<br>2.8<br>57<br>57 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 2339 | 71.011 |
| | | 603<br>4.2<br>21<br>21 | 488<br>4.9<br>51<br>51 | 1070<br>2.4<br>21<br>21 | 933<br>2.7<br>45<br>45 | 1550<br>1.7<br>21<br>21 | 1153<br>2.2<br>45<br>45 | 2030<br>1.3<br>19<br>19 | 1413<br>1.8<br>45<br>45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 2637 | 71.011 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

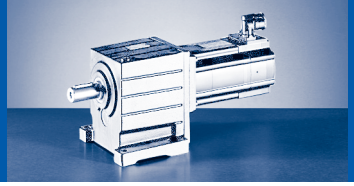
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2848$ Nm

| GST11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 80.694 | 2658 | 3.50 | $M_2$ | | | | | | | 751 | 596 | 558 |
| | | | c | | | | | | | 3.5 | 4.3 | 4.4 |
| | | | $n_{2\,Eck}$ | | | | | | | 19 | 37 | 44 |
| | | | $n_{2\,th}$ | | | | | | | 19 | 37 | 44 |
| 80.694 | 2787 | 3.50 | $M_2$ | | | | | | | | | |
| | | | c | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | | |
| 87.267 | 2657 | 3.22 | $M_2$ | | | | | 436 | | 815 | 646 | 606 |
| | | | c | | | | | 5.8 | | 3.2 | 4.0 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | | 22 | | 17 | 34 | 40 |
| | | | $n_{2\,th}$ | | | | | 22 | | 17 | 34 | 40 |
| 99.167 | 2810 | 3.20 | $M_2$ | | | | | 497 | | 928 | 737 | 690 |
| | | | c | | | | | 5.4 | | 3.0 | 3.7 | 3.8 |
| | | | $n_{2\,Eck}$ | | | | | 20 | | 15 | 30 | 36 |
| | | | $n_{2\,th}$ | | | | | 20 | | 15 | 30 | 36 |
| 112.933 | 2695 | 2.93 | $M_2$ | | | | | 572 | 443 | 1062 | 844 | 791 |
| | | | c | | | | | 4.5 | 5.3 | 2.5 | 3.1 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | 17 | 36 | 13 | 27 | 31 |
| | | | $n_{2\,th}$ | | | | | 17 | 36 | 13 | 27 | 31 |
| 129.074 | 2651 | 1.94 | $M_2$ | | | 449 | 536 | | | | | |
| | | | c | | | 5.1 | 4.3 | | | | | |
| | | | $n_{2\,Eck}$ | | | 31 | 31 | | | | | |
| | | | $n_{2\,th}$ | | | 31 | 31 | | | | | |
| 129.074 | 2810 | 1.94 | $M_2$ | | | | | 656 | 509 | 1217 | 968 | 907 |
| | | | c | | | | | 4.1 | 4.8 | 2.3 | 2.9 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | | 15 | 31 | 12 | 23 | 27 |
| | | | $n_{2\,th}$ | | | | | 15 | 31 | 12 | 23 | 27 |
| 146.993 | 2695 | 1.77 | $M_2$ | | 414 | 514 | 613 | 753 | 585 | 1391 | 1107 | 1038 |
| | | | c | | 5.8 | 4.6 | 3.9 | 3.5 | 4.0 | 1.9 | 2.4 | 2.4 |
| | | | $n_{2\,Eck}$ | | 26 | 28 | 28 | 13 | 28 | 10 | 20 | 24 |
| | | | $n_{2\,th}$ | | 26 | 28 | 28 | 13 | 28 | 10 | 20 | 24 |
| 158.194 | 2779 | 1.40 | $M_2$ | | 447 | 554 | 661 | | | | | |
| | | | c | | 5.5 | 4.4 | 3.7 | | | | | |
| | | | $n_{2\,Eck}$ | | 24 | 26 | 26 | | | | | |
| | | | $n_{2\,th}$ | | 24 | 26 | 26 | | | | | |
| 158.194 | 2810 | 1.40 | $M_2$ | | | | | 811 | 630 | 1498 | 1193 | 1118 |
| | | | c | | | | | 3.4 | 3.9 | 1.9 | 2.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | | 12 | 26 | 10 | 19 | 22 |
| | | | $n_{2\,th}$ | | | | | 12 | 26 | 9 | 19 | 22 |
| 180.156 | 2695 | 1.29 | $M_2$ | | 513 | 636 | 757 | 929 | 723 | 1712 | 1364 | 1278 |
| | | | c | | 4.7 | 3.7 | 3.2 | 2.9 | 3.3 | 1.6 | 2.0 | 2.0 |
| | | | $n_{2\,Eck}$ | | 21 | 23 | 23 | 11 | 23 | 8 | 17 | 20 |
| | | | $n_{2\,th}$ | | 21 | 22 | 22 | 11 | 22 | 8 | 17 | 20 |
| 207.778 | 2810 | 0.88 | $M_2$ | 435 | 595 | 736 | 876 | 1074 | 836 | 1977 | 1576 | 1477 |
| | | | c | 5.6 | 4.2 | 3.4 | 2.9 | 2.6 | 3.0 | 1.4 | 1.8 | 1.8 |
| | | | $n_{2\,Eck}$ | 20 | 18 | 20 | 20 | 9 | 20 | 7 | 14 | 17 |
| | | | $n_{2\,th}$ | 19 | 18 | 19 | 19 | 9 | 19 | 7 | 14 | 17 |
| 236.622 | 2695 | 0.82 | $M_2$ | 500 | 682 | 843 | 1003 | 1229 | 957 | 2257 | 1800 | 1687 |
| | | | c | 4.7 | 3.6 | 2.8 | 2.4 | 2.2 | 2.5 | 1.2 | 1.5 | 1.5 |
| | | | $n_{2\,Eck}$ | 17 | 16 | 17 | 17 | 8 | 17 | 6 | 13 | 15 |
| | | | $n_{2\,th}$ | 17 | 16 | 17 | 17 | 8 | 17 | 6 | 13 | 15 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

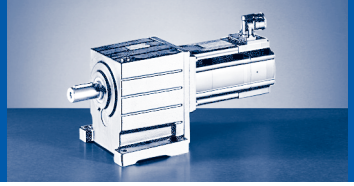


## $M_{2\,GN} \leq 2848$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 1024 | 832 | | | | | | | | | $M_2$ | 3.50 | 2658 | 80.694 |
| 2.6 | 2.8 | | | | | | | | | c | | | |
| 24 | 50 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 24 | 50 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 688 | 557 | 1218 | 1062 | 1763 | 1312 | 2309 | 1608 | $M_2$ | 3.50 | 2787 | 80.694 |
| | | 3.9 | 4.5 | 2.3 | 2.5 | 1.6 | 2.1 | 1.2 | 1.7 | c | | | |
| | | 19 | 45 | 19 | 40 | 19 | 40 | 17 | 40 | $n_{2\,Eck}$ | | | |
| | | 19 | 44 | 19 | 40 | 19 | 40 | 17 | 40 | $n_{2\,th}$ | | | |
| 1110 | 902 | 747 | 606 | 1321 | 1153 | 1910 | 1422 | 2500 | 1743 | $M_2$ | 3.22 | 2657 | 87.267 |
| 2.4 | 2.6 | 3.5 | 4.0 | 2.0 | 2.2 | 1.4 | 1.8 | 1.1 | 1.5 | c | | | |
| 22 | 46 | 17 | 41 | 17 | 37 | 17 | 37 | 16 | 37 | $n_{2\,Eck}$ | | | |
| 22 | 46 | 17 | 41 | 17 | 37 | 17 | 37 | 15 | 37 | $n_{2\,th}$ | | | |
| 1263 | 1027 | 852 | 691 | 1503 | 1312 | 2173 | 1618 | | 1982 | $M_2$ | 3.20 | 2810 | 99.167 |
| 2.2 | 2.4 | 3.2 | 3.7 | 1.9 | 2.1 | 1.3 | 1.7 | | 1.4 | c | | | |
| 20 | 41 | 15 | 36 | 15 | 33 | 15 | 33 | | 33 | $n_{2\,Eck}$ | | | |
| 20 | 41 | 15 | 36 | 15 | 33 | 15 | 33 | | 33 | $n_{2\,th}$ | | | |
| 1444 | 1174 | 975 | 791 | 1717 | 1499 | 2480 | 1848 | | 2263 | $M_2$ | 2.93 | 2695 | 112.933 |
| 1.9 | 2.1 | 2.7 | 3.1 | 1.6 | 1.7 | 1.1 | 1.4 | | 1.2 | c | | | |
| 17 | 36 | 13 | 32 | 13 | 29 | 13 | 29 | | 29 | $n_{2\,Eck}$ | | | |
| 17 | 36 | 13 | 32 | 13 | 29 | 13 | 29 | | 29 | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 1.94 | 2651 | 129.074 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 1653 | 1344 | 1117 | 907 | 1965 | 1716 | | 2115 | | 2589 | $M_2$ | 1.94 | 2810 | 129.074 |
| 1.7 | 1.9 | 2.5 | 2.9 | 1.4 | 1.6 | | 1.3 | | 1.1 | c | | | |
| 15 | 31 | 12 | 28 | 12 | 25 | | 25 | | 25 | $n_{2\,Eck}$ | | | |
| 15 | 31 | 12 | 28 | 12 | 25 | | 25 | | 25 | $n_{2\,th}$ | | | |
| 1888 | 1536 | 1278 | 1038 | 2243 | 1960 | | 2414 | | | $M_2$ | 1.77 | 2695 | 146.993 |
| 1.4 | 1.6 | 2.1 | 2.4 | 1.2 | 1.3 | | 1.1 | | | c | | | |
| 13 | 28 | 10 | 25 | 10 | 22 | | 22 | | | $n_{2\,Eck}$ | | | |
| 13 | 28 | 10 | 24 | 10 | 22 | | 22 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 1.40 | 2779 | 158.194 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 2033 | 1654 | 1376 | 1118 | 2415 | 2110 | | 2599 | | | $M_2$ | 1.40 | 2810 | 158.194 |
| 1.4 | 1.5 | 2.0 | 2.3 | 1.2 | 1.3 | | 1.1 | | | c | | | |
| 12 | 26 | 10 | 23 | 10 | 20 | | 20 | | | $n_{2\,Eck}$ | | | |
| 12 | 26 | 9 | 23 | 9 | 20 | | 20 | | | $n_{2\,th}$ | | | |
| 2320 | 1888 | 1572 | 1278 | | 2408 | | | | | $M_2$ | 1.29 | 2695 | 180.156 |
| 1.2 | 1.3 | 1.7 | 2.0 | | 1.1 | | | | | c | | | |
| 11 | 23 | 8 | 20 | | 18 | | | | | $n_{2\,Eck}$ | | | |
| 11 | 22 | 8 | 20 | | 18 | | | | | $n_{2\,th}$ | | | |
| 2679 | 2180 | | | | | | | | | $M_2$ | 0.88 | 2810 | 207.778 |
| 1.1 | 1.2 | | | | | | | | | c | | | |
| 9 | 20 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 9 | 19 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.82 | 2695 | 236.622 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



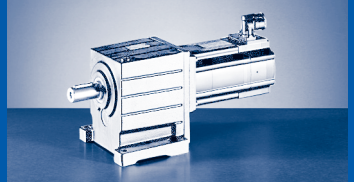


## $M_{2\,GN} \leq 2848$ Nm

| GST11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 252.167 | 2810 | 0.63 | $M_2$ | 533 | 728 | 899 | 1069 | 1310 | 1020 | 2406 | 1919 | 1798 |
| | | | c | 4.6 | 3.5 | 2.8 | 2.4 | 2.1 | 2.5 | 1.2 | 1.5 | 1.5 |
| | | | $n_{2\,Eck}$ | 16 | 15 | 16 | 16 | 8 | 16 | 6 | 12 | 14 |
| | | | $n_{2\,th}$ | 16 | 15 | 16 | 16 | 8 | 16 | 6 | 12 | 14 |
| 268.889 | 2848 | 0.82 | $M_2$ | 570 | 777 | 960 | 1141 | 1398 | 1090 | 2567 | 2047 | 1919 |
| | | | c | 4.4 | 3.3 | 2.6 | 2.2 | 2.0 | 2.3 | 1.1 | 1.4 | 1.4 |
| | | | $n_{2\,Eck}$ | 15 | 14 | 15 | 15 | 7 | 15 | 6 | 11 | 13 |
| | | | $n_{2\,th}$ | 15 | 14 | 15 | 15 | 7 | 15 | 6 | 11 | 13 |
| 326.333 | 2848 | 0.59 | $M_2$ | 698 | 949 | 1171 | 1391 | 1703 | 1328 | | 2491 | 2335 |
| | | | c | 3.6 | 2.7 | 2.2 | 1.8 | 1.7 | 1.9 | | 1.1 | 1.2 |
| | | | $n_{2\,Eck}$ | 12 | 12 | 12 | 12 | 6 | 12 | | 9 | 11 |
| | | | $n_{2\,th}$ | 12 | 11 | 12 | 12 | 6 | 12 | | 9 | 11 |
| 363.000 | 2695 | 0.76 | $M_2$ | 781 | 1060 | 1307 | 1552 | | | | | |
| | | | c | 3.1 | 2.3 | 1.9 | 1.6 | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 10 | 11 | 11 | | | | | |
| | | | $n_{2\,th}$ | 11 | 10 | 11 | 11 | | | | | |
| 412.500 | 2848 | 0.55 | $M_2$ | 889 | 1207 | 1487 | 1766 | | | | | |
| | | | c | 2.8 | 2.2 | 1.7 | 1.5 | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 9 | 10 | 10 | | | | | |
| | | | $n_{2\,th}$ | 10 | 9 | 10 | 10 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2848$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GST11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.63 | 2810 | 252.167 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 2848 | 268.889 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.59 | 2848 | 326.333 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.76 | 2695 | 363.000 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.55 | 2848 | 412.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

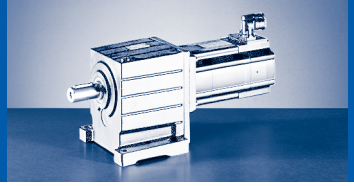
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3107$ Nm

| GST14-2S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 5.200 | 1201 | 168.00 | $M_2$ | | | 192 | | 248 | 153 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 274 | | 260 | 577 |
| | | | $n_{2\,th}$ | | | 274 | | 260 | 328 |
| 5.714 | 1320 | 161.00 | $M_2$ | | | 210 | | 272 | 168 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 249 | | 236 | 525 |
| | | | $n_{2\,th}$ | | | 249 | | 236 | 299 |
| 6.286 | 1364 | 141.00 | $M_2$ | | | 232 | | 300 | 186 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 227 | | 215 | 477 |
| | | | $n_{2\,th}$ | | | 227 | | 215 | 276 |
| 8.027 | 1467 | 100.00 | $M_2$ | | | 300 | 216 | 386 | 240 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 178 | 374 | 168 | 374 |
| | | | $n_{2\,th}$ | | | 178 | 247 | 168 | 242 |
| 8.800 | 2033 | 139.00 | $M_2$ | | | 324 | | 419 | 259 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 162 | | 153 | 341 |
| | | | $n_{2\,th}$ | | | 162 | | 153 | 194 |
| 9.841 | 1546 | 75.10 | $M_2$ | 245 | | 370 | 267 | 476 | 296 |
| | | | c | 6.0 | | 4.1 | 4.4 | 3.2 | 4.0 |
| | | | $n_{2\,Eck}$ | 145 | | 145 | 305 | 137 | 305 |
| | | | $n_{2\,th}$ | 145 | | 145 | 219 | 137 | 214 |
| 11.000 | 2386 | 119.00 | $M_2$ | | | 407 | | 525 | 326 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 130 | | 123 | 273 |
| | | | $n_{2\,th}$ | | | 130 | | 123 | 158 |
| 12.362 | 2260 | 89.00 | $M_2$ | | | 461 | 333 | 595 | 369 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 115 | 243 | 109 | 243 |
| | | | $n_{2\,th}$ | | | 115 | 161 | 109 | 157 |
| 14.048 | 2568 | 86.60 | $M_2$ | | | 524 | 378 | 676 | 420 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 101 | 214 | 96 | 214 |
| | | | $n_{2\,th}$ | | | 101 | 141 | 96 | 138 |
| 15.156 | 2381 | 67.60 | $M_2$ | 377 | | 570 | 409 | 733 | 453 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 94 | | 94 | 198 | 89 | 198 |
| | | | $n_{2\,th}$ | 94 | | 94 | 146 | 89 | 143 |
| 17.222 | 2705 | 66.00 | $M_2$ | 428 | | 647 | 464 | 833 | 515 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 83 | | 83 | 174 | 78 | 174 |
| | | | $n_{2\,th}$ | 83 | | 83 | 128 | 78 | 126 |
| 20.044 | 2507 | 45.80 | $M_2$ | 505 | 389 | 760 | 546 | 976 | 605 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 71 | 150 | 71 | 150 | 67 | 150 |
| | | | $n_{2\,th}$ | 71 | 110 | 71 | 110 | 67 | 110 |
| 22.778 | 2849 | 44.90 | $M_2$ | 573 | 442 | 864 | 621 | 1109 | 688 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 63 | 132 | 63 | 132 | 59 | 132 |
| | | | $n_{2\,th}$ | 63 | 97 | 63 | 97 | 59 | 97 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3107$ Nm

| GST14-2S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 24.567 | 2627 | 33.20 | $M_2$ | 623 | 481 | 936 | 674 | 1201 | 746 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 58 | 122 | 58 | 122 | 55 | 122 |
| | | | $n_{2\,th}$ | 58 | 90 | 58 | 90 | 55 | 90 |
| 27.917 | 2985 | 32.60 | $M_2$ | 708 | 547 | 1064 | 766 | 1365 | 848 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 51 | 108 | 51 | 108 | 48 | 108 |
| | | | $n_{2\,th}$ | 51 | 79 | 51 | 79 | 48 | 79 |
| 32.267 | 2701 | 21.50 | $M_2$ | 826 | 639 | 1237 | 892 | 1585 | 987 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 44 | 93 | 44 | 93 | 42 | 93 |
| | | | $n_{2\,th}$ | 44 | 69 | 44 | 69 | 42 | 69 |
| 36.667 | 3069 | 21.20 | $M_2$ | 939 | 726 | 1406 | 1014 | 1801 | 1122 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 39 | 82 | 39 | 82 | 37 | 82 |
| | | | $n_{2\,th}$ | 39 | 60 | 39 | 60 | 37 | 60 |
| 39.160 | 2734 | 15.70 | $M_2$ | 1008 | 781 | 1507 | 1088 | 1929 | 1203 |
| | | | c | 2.7 | 3.1 | 1.8 | 2.2 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 36 | 77 | 36 | 77 | 35 | 77 |
| | | | $n_{2\,th}$ | 36 | 56 | 36 | 56 | 34 | 56 |
| 44.500 | 3107 | 15.50 | $M_2$ | 1146 | 884 | 1713 | 1233 | 2193 | 1364 |
| | | | c | 2.7 | 3.4 | 1.8 | 2.5 | 1.4 | 2.3 |
| | | | $n_{2\,Eck}$ | 32 | 67 | 32 | 67 | 30 | 67 |
| | | | $n_{2\,th}$ | 32 | 50 | 32 | 50 | 30 | 50 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

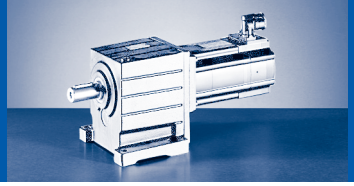
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5920$ Nm

| GST14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 40.185 | 3459 | 24.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 585<br>5.6<br>37<br>37 |
| 40.185 | 4476 | 24.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 42.580 | 2052 | 18.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 390<br>5.0<br>35<br>35 | | | 534<br>3.7<br>46<br>46 | 433<br>4.2<br>95<br>84 | | | |
| 42.580 | 3211 | 18.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 624<br>4.9<br>35<br>35 |
| 42.580 | 4262 | 18.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 48.386 | 2332 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 443<br>5.0<br>31<br>31 | | | 606<br>3.7<br>40<br>40 | 492<br>4.2<br>84<br>74 | | | |
| 48.386 | 3649 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 709<br>4.9<br>31<br>31 |
| 48.386 | 4843 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 53.148 | 4574 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 773<br>5.6<br>28<br>28 |
| 53.148 | 4779 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 59.321 | 3840 | 13.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 876<br>4.2<br>25<br>25 |
| 59.321 | 5267 | 13.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 69.042 | 4470 | 11.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1020<br>4.2<br>22<br>22 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5920$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 511 | 856 | 636 | 1128 | 783 | | | | | | | $M_2$ | 24.40 | 3459 | 40.185 |
| 5.7 | 3.9 | 4.6 | 3.0 | 3.8 | | | | | | | c | | | |
| 80 | 37 | 80 | 34 | 80 | | | | | | | $n_{2\,Eck}$ | | | |
| 80 | 37 | 80 | 34 | 77 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1001 | 773 | 1505 | 1083 | 1932 | 1200 | $M_2$ | 24.40 | 4476 | 40.185 |
| | | | | | 4.3 | 5.0 | 2.9 | 3.6 | 2.3 | 3.3 | c | | | |
| | | | | | 36 | 75 | 36 | 75 | 34 | 75 | $n_{2\,Eck}$ | | | |
| | | | | | 35 | 55 | 35 | 55 | 34 | 55 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 18.30 | 2052 | 42.580 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 543 | 912 | 674 | 1200 | 831 | | | | | | | $M_2$ | 18.30 | 3211 | 42.580 |
| 5.5 | 3.4 | 4.5 | 2.6 | 3.7 | | | | | | | c | | | |
| 76 | 35 | 76 | 32 | 76 | | | | | | | $n_{2\,Eck}$ | | | |
| 76 | 35 | 76 | 32 | 76 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1066 | 819 | 1600 | 1148 | 2052 | 1271 | $M_2$ | 18.30 | 4262 | 42.580 |
| | | | | | 3.9 | 5.0 | 2.6 | 3.6 | 2.1 | 3.3 | c | | | |
| | | | | | 34 | 71 | 34 | 71 | 32 | 71 | $n_{2\,Eck}$ | | | |
| | | | | | 33 | 52 | 33 | 52 | 32 | 52 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 18.10 | 2332 | 48.386 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 617 | 1036 | 766 | 1364 | 944 | | | | | | | $M_2$ | 18.10 | 3649 | 48.386 |
| 5.5 | 3.4 | 4.5 | 2.6 | 3.7 | | | | | | | c | | | |
| 67 | 31 | 67 | 28 | 67 | | | | | | | $n_{2\,Eck}$ | | | |
| 67 | 31 | 67 | 28 | 67 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1211 | 931 | 1818 | 1304 | 2332 | 1445 | $M_2$ | 18.10 | 4843 | 48.386 |
| | | | | | 3.9 | 5.0 | 2.6 | 3.6 | 2.1 | 3.3 | c | | | |
| | | | | | 30 | 62 | 30 | 62 | 28 | 62 | $n_{2\,Eck}$ | | | |
| | | | | | 29 | 46 | 29 | 46 | 28 | 46 | $n_{2\,th}$ | | | |
| | 1133 | 836 | 1492 | 1031 | | | | | | | $M_2$ | 20.50 | 4574 | 53.148 |
| | 3.9 | 5.1 | 3.0 | 4.2 | | | | | | | c | | | |
| | 28 | 61 | 25 | 61 | | | | | | | $n_{2\,Eck}$ | | | |
| | 28 | 61 | 25 | 59 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1336 | 1028 | 2003 | 1438 | 2568 | 1592 | $M_2$ | 20.50 | 4779 | 53.148 |
| | | | | | 3.5 | 4.5 | 2.4 | 3.2 | 1.9 | 2.9 | c | | | |
| | | | | | 27 | 57 | 27 | 57 | 25 | 57 | $n_{2\,Eck}$ | | | |
| | | | | | 27 | 42 | 27 | 42 | 25 | 42 | $n_{2\,th}$ | | | |
| 763 | 1277 | 946 | 1678 | 1164 | | | | | | | $M_2$ | 13.20 | 3840 | 59.321 |
| 4.7 | 3.0 | 3.9 | 2.3 | 3.2 | | | | | | | c | | | |
| 54 | 25 | 54 | 23 | 54 | | | | | | | $n_{2\,Eck}$ | | | |
| 54 | 25 | 54 | 23 | 54 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1492 | 1148 | 2236 | 1606 | 2866 | 1778 | $M_2$ | 13.20 | 5267 | 59.321 |
| | | | | | 3.4 | 4.4 | 2.3 | 3.2 | 1.8 | 2.9 | c | | | |
| | | | | | 24 | 51 | 24 | 51 | 23 | 51 | $n_{2\,Eck}$ | | | |
| | | | | | 24 | 37 | 24 | 37 | 23 | 37 | $n_{2\,th}$ | | | |
| 888 | 1487 | 1101 | 1953 | 1354 | | | | | | | $M_2$ | 11.50 | 4470 | 69.042 |
| 4.7 | 3.0 | 3.9 | 2.3 | 3.2 | | | | | | | c | | | |
| 47 | 22 | 47 | 20 | 47 | | | | | | | $n_{2\,Eck}$ | | | |
| 47 | 22 | 47 | 20 | 47 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

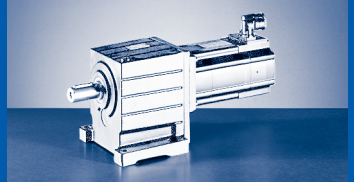
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5920$ Nm

| GST14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 69.042 | 4917 | 11.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 78.457 | 5079 | 11.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1159<br>4.2<br>19<br>19 |
| 78.457 | 5587 | 11.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 93.541 | 3031 | 6.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 872<br>3.4<br>16<br>16 | 691<br>4.2<br>32<br>32 | 647<br>4.3<br>38<br>38 | 1188<br>2.5<br>21<br>21 | 965<br>2.8<br>43<br>43 | | | |
| 93.541 | 4733 | 6.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 782<br>5.8<br>16<br>16 | | 1396<br>3.3<br>16<br>16 |
| 96.157 | 5882 | 10.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1424<br>4.0<br>16<br>16 |
| 106.296 | 3444 | 6.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 990<br>3.4<br>14<br>14 | 785<br>4.2<br>28<br>28 | 736<br>4.3<br>33<br>33 | 1350<br>2.5<br>18<br>18 | 1097<br>2.8<br>38<br>38 | | | |
| 106.296 | 5378 | 6.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 888<br>5.8<br>14<br>14 | | 1586<br>3.3<br>14<br>14 |
| 130.278 | 4221 | 6.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1214<br>3.4<br>12<br>12 | 962<br>4.2<br>23<br>23 | 902<br>4.3<br>27<br>27 | 1654<br>2.5<br>15<br>15 | 1344<br>2.8<br>31<br>31 | | | |
| 130.278 | 5920 | 6.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1095<br>5.2<br>12<br>12 | 885<br>6.0<br>28<br>28 | 1951<br>3.0<br>12<br>12 |
| 139.211 | 3865 | 4.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 699<br>5.3<br>14<br>14 | | 1304<br>2.9<br>11<br>11 | 1035<br>3.6<br>22<br>22 | 970<br>3.7<br>25<br>25 | 1774<br>2.2<br>14<br>14 | 1442<br>2.4<br>29<br>29 | | | |
| 139.211 | 5736 | 4.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1177<br>4.7<br>11<br>11 | 952<br>5.4<br>26<br>26 | 2091<br>2.7<br>11<br>11 |
| 158.194 | 4392 | 4.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 794<br>5.3<br>12<br>12 | | 1482<br>2.9<br>10<br>9 | 1176<br>3.6<br>19<br>19 | 1102<br>3.7<br>22<br>22 | 2016<br>2.2<br>12<br>12 | 1639<br>2.4<br>26<br>26 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5920$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | 1749 | 1349 | 2615 | 1882 | 3349 | 2082 | $M_2$ | | | |
| | | | | | 2.8 | 3.6 | 1.9 | 2.6 | 1.5 | 2.3 | c | 11.50 | 4917 | 69.042 |
| | | | | | 21 | 44 | 21 | 44 | 20 | 44 | $n_{2\,Eck}$ | | | |
| | | | | | 21 | 32 | 21 | 32 | 20 | 32 | $n_{2\,th}$ | | | |
| 1009 | 1689 | 1251 | 2220 | 1539 | | | | | | | $M_2$ | | | |
| 4.7 | 3.0 | 3.9 | 2.3 | 3.2 | | | | | | | c | 11.40 | 5079 | 78.457 |
| 41 | 19 | 41 | 17 | 41 | | | | | | | $n_{2\,Eck}$ | | | |
| 41 | 19 | 41 | 17 | 41 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1987 | 1533 | 2972 | 2139 | 3805 | 2366 | $M_2$ | | | |
| | | | | | 2.8 | 3.6 | 1.9 | 2.6 | 1.5 | 2.3 | c | 11.40 | 5587 | 78.457 |
| | | | | | 18 | 38 | 18 | 38 | 17 | 38 | $n_{2\,Eck}$ | | | |
| | | | | | 18 | 28 | 18 | 28 | 17 | 28 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 6.57 | 3031 | 93.541 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1216 | 2028 | 1505 | 2660 | 1849 | | | | | | | $M_2$ | | | |
| 3.7 | 2.3 | 3.0 | 1.8 | 2.5 | | | | | | | c | 6.57 | 4733 | 93.541 |
| 35 | 16 | 35 | 14 | 35 | | | | | | | $n_{2\,Eck}$ | | | |
| 34 | 16 | 34 | 14 | 34 | | | | | | | $n_{2\,th}$ | | | |
| 1240 | 2074 | 1537 | 2724 | 1890 | 2446 | 1888 | 3653 | 2631 | 4674 | 2910 | $M_2$ | | | |
| 4.5 | 2.8 | 3.6 | 2.1 | 3.0 | 2.4 | 3.1 | 1.6 | 2.2 | 1.3 | 2.0 | c | 10.40 | 5882 | 96.157 |
| 34 | 16 | 34 | 14 | 34 | 15 | 31 | 15 | 31 | 14 | 31 | $n_{2\,Eck}$ | | | |
| 34 | 16 | 34 | 14 | 34 | 15 | 23 | 15 | 23 | 14 | 23 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 6.52 | 3444 | 106.296 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1382 | 2305 | 1711 | 3023 | 2101 | | | | | | | $M_2$ | | | |
| 3.7 | 2.3 | 3.0 | 1.8 | 2.5 | | | | | | | c | 6.52 | 5378 | 106.296 |
| 30 | 14 | 30 | 13 | 30 | | | | | | | $n_{2\,Eck}$ | | | |
| 30 | 14 | 30 | 13 | 30 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 6.00 | 4221 | 130.278 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1701 | 2832 | 2103 | 3712 | 2581 | | | | | | | $M_2$ | | | |
| 3.3 | 2.1 | 2.7 | 1.6 | 2.2 | | | | | | | c | 6.00 | 5920 | 130.278 |
| 25 | 12 | 25 | 10 | 25 | | | | | | | $n_{2\,Eck}$ | | | |
| 25 | 12 | 25 | 10 | 25 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 4.42 | 3865 | 139.211 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1823 | 3032 | 2254 | 3973 | 2764 | | | | | | | $M_2$ | | | |
| 3.0 | 1.9 | 2.5 | 1.4 | 2.0 | | | | | | | c | 4.42 | 5736 | 139.211 |
| 23 | 11 | 23 | 10 | 23 | | | | | | | $n_{2\,Eck}$ | | | |
| 23 | 11 | 23 | 10 | 23 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 4.40 | 4392 | 158.194 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

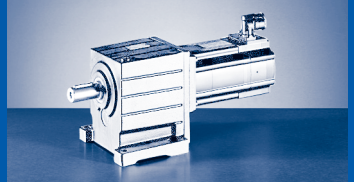
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5920$ Nm

| GST14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 158.194 | 5920 | 4.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1343<br>4.3<br>10<br>9 | 1087<br>4.9<br>23<br>23 | 2382<br>2.5<br>10<br>9 |
| 171.111 | 5544 | 5.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1594<br>3.4<br>9<br>9 | 1264<br>4.2<br>18<br>18 | 1184<br>4.3<br>21<br>21 | 2173<br>2.5<br>11<br>11 | 1765<br>2.8<br>24<br>24 | | | |
| 171.111 | 5920 | 5.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1458<br>3.9<br>9<br>9 | 1181<br>4.5<br>21<br>21 | 2582<br>2.3<br>9<br>9 |
| 204.722 | 4557 | 2.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1040<br>4.2<br>10<br>10 | 807<br>4.9<br>20<br>20 | 1929<br>2.3<br>7<br>7 | 1534<br>2.9<br>15<br>15 | 1438<br>2.9<br>17<br>17 | 2621<br>1.7<br>10<br>10 | 2131<br>1.9<br>20<br>20 | | | |
| 204.722 | 5920 | 2.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1757<br>3.3<br>7<br>7 | 1424<br>3.8<br>18<br>18 | 3101<br>1.9<br>7<br>7 |
| 236.622 | 5267 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1202<br>4.2<br>8<br>8 | 933<br>4.9<br>17<br>17 | 2230<br>2.3<br>6<br>6 | 1773<br>2.9<br>13<br>13 | 1662<br>2.9<br>15<br>15 | 3030<br>1.7<br>8<br>8 | 2464<br>1.9<br>17<br>17 | | | |
| 236.622 | 5779 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 2042<br>2.8<br>6<br>6 | 1657<br>3.2<br>15<br>15 | 3596<br>1.6<br>6<br>6 |
| 248.458 | 4614 | 2.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1271<br>3.5<br>8<br>8 | 988<br>4.1<br>16<br>16 | 2351<br>1.9<br>6<br>6 | 1871<br>2.4<br>12<br>12 | 1754<br>2.5<br>14<br>14 | 3191<br>1.4<br>8<br>8 | 2596<br>1.6<br>16<br>16 | | | |
| 248.458 | 5920 | 2.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 2145<br>2.7<br>6<br>6 | 1741<br>3.1<br>15<br>14 | 3777<br>1.6<br>6<br>6 |
| 268.889 | 5920 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1366<br>4.2<br>7<br>7 | 1060<br>4.9<br>15<br>15 | 2535<br>2.3<br>6<br>6 | 2015<br>2.9<br>11<br>11 | 1889<br>2.9<br>13<br>13 | 3443<br>1.7<br>7<br>7 | 2800<br>1.9<br>15<br>15 | 2327<br>2.5<br>6<br>6 | 1889<br>2.9<br>13<br>13 | 4093<br>1.4<br>6<br>6 |
| 326.333 | 5920 | 1.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1671<br>3.5<br>6<br>6 | 1299<br>4.0<br>12<br>12 | 3089<br>1.9<br>5<br>5 | 2459<br>2.4<br>9<br>9 | 2305<br>2.4<br>11<br>11 | 4192<br>1.4<br>6<br>6 | 3410<br>1.6<br>12<br>12 | 2837<br>2.1<br>5<br>5 | 2305<br>2.4<br>11<br>11 | 4980<br>1.2<br>5<br>5 |
| 363.000 | 5401 | 2.45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1871<br>2.8<br>5<br>5 | 1456<br>3.3<br>11<br>11 | 3449<br>1.6<br>4<br>4 | 2748<br>2.0<br>8<br>8 | 2575<br>2.0<br>10<br>10 | 4676<br>1.2<br>5<br>5 | 3805<br>1.3<br>11<br>11 | | | |
| 412.500 | 5920 | 1.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2129<br>2.7<br>5<br>5 | 1657<br>3.2<br>10<br>10 | 3921<br>1.5<br>4<br>4 | 3125<br>1.9<br>7<br>7 | 2929<br>1.9<br>9<br>9 | 5316<br>1.1<br>5<br>5 | 4326<br>1.2<br>10<br>10 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5920$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GST14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 | 160.04 | $J_M$ | | | |
| 2078 | 3452 | 2567 | 4521 | 3148 | | | | | | | $M_2$ | 4.40 | 5920 | 158.194 |
| 2.7 | 1.7 | 2.2 | 1.3 | 1.8 | | | | | | | c | | | |
| 20 | 10 | 20 | 9 | 20 | | | | | | | $n_{2\,Eck}$ | | | |
| 20 | 9 | 20 | 9 | 20 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 5.49 | 5544 | 171.111 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 2253 | 3739 | 2782 | 4895 | 3410 | | | | | | | $M_2$ | 5.49 | 5920 | 171.111 |
| 2.5 | 1.6 | 2.1 | 1.2 | 1.7 | | | | | | | c | | | |
| 19 | 9 | 19 | 8 | 19 | | | | | | | $n_{2\,Eck}$ | | | |
| 19 | 9 | 19 | 8 | 19 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.86 | 4557 | 204.722 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 2707 | 4485 | 3340 | 5869 | 4091 | | | | | | | $M_2$ | 2.86 | 5920 | 204.722 |
| 2.1 | 1.3 | 1.7 | 1.0 | 1.4 | | | | | | | c | | | |
| 16 | 7 | 16 | 7 | 16 | | | | | | | $n_{2\,Eck}$ | | | |
| 16 | 7 | 16 | 7 | 16 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.65 | 5267 | 236.622 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 3140 | 5195 | 3871 | | 4739 | | | | | | | $M_2$ | 2.65 | 5779 | 236.622 |
| 1.8 | 1.1 | 1.5 | | 1.2 | | | | | | | c | | | |
| 14 | 6 | 14 | | 14 | | | | | | | $n_{2\,Eck}$ | | | |
| 14 | 6 | 14 | | 14 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.06 | 4614 | 248.458 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 3299 | 5456 | 4066 | | 4978 | | | | | | | $M_2$ | 2.06 | 5920 | 248.458 |
| 1.7 | 1.1 | 1.4 | | 1.2 | | | | | | | c | | | |
| 13 | 6 | 13 | | 13 | | | | | | | $n_{2\,Eck}$ | | | |
| 13 | 6 | 13 | | 13 | | | | | | | $n_{2\,th}$ | | | |
| 3575 | 5910 | 4406 | | 5392 | | | | | | | $M_2$ | 2.65 | 5920 | 268.889 |
| 1.6 | 1.0 | 1.3 | | 1.1 | | | | | | | c | | | |
| 12 | 6 | 12 | | 12 | | | | | | | $n_{2\,Eck}$ | | | |
| 12 | 6 | 12 | | 12 | | | | | | | $n_{2\,th}$ | | | |
| 4351 | | 5360 | | | | | | | | | $M_2$ | 1.92 | 5920 | 326.333 |
| 1.3 | | 1.1 | | | | | | | | | c | | | |
| 10 | | 10 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 10 | | 10 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.45 | 5401 | 363.000 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.78 | 5920 | 412.500 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

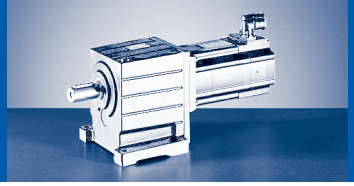
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 25$ Nm

| GST04-1A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 1.600 | 19 | 0.27 | $M_2$ | 20 | 10 | 6 |
| | | | c | 5.1 | 1.5 | 2.2 |
| | | | $n_{2\,Eck}$ | 1023 | 2131 | 2531 |
| | | | $n_{2\,th}$ | 2439 | 1841 | 2159 |
| 2.048 | 23 | 0.19 | $M_2$ | 4 | 13 | 8 |
| | | | c | 4.1 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 1929 | 1665 | 1978 |
| | | | $n_{2\,th}$ | 1929 | 1623 | 1966 |
| 2.240 | 25 | 0.17 | $M_2$ | 4 | 14 | 9 |
| | | | c | 4.1 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 1763 | 1522 | 1808 |
| | | | $n_{2\,th}$ | 1763 | 1522 | 1808 |
| 2.857 | 25 | 0.13 | $M_2$ | 6 | 18 | 11 |
| | | | c | 3.2 | 1.1 | 1.6 |
| | | | $n_{2\,Eck}$ | 1383 | 1194 | 1418 |
| | | | $n_{2\,th}$ | 1383 | 1194 | 1418 |
| 3.500 | 25 | 0.10 | $M_2$ | 7 | | 14 |
| | | | c | 2.6 | | 1.3 |
| | | | $n_{2\,Eck}$ | 1129 | | 1157 |
| | | | $n_{2\,th}$ | 1129 | | 1157 |
| 4.400 | 25 | 0.07 | $M_2$ | 9 | | |
| | | | c | 2.1 | | |
| | | | $n_{2\,Eck}$ | 898 | | |
| | | | $n_{2\,th}$ | 898 | | |
| 5.667 | 25 | 0.05 | $M_2$ | 11 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 697 | | |
| | | | $n_{2\,th}$ | 697 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 71$ Nm

| GST04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 2.956 | 39 | 0.34 | $M_2$ | 6 | 18 | 11 |
| | | | c | 4.9 | 1.7 | 2.5 |
| | | | $n_{2\,Eck}$ | 1337 | 1154 | 1370 |
| | | | $n_{2\,th}$ | 1218 | 923 | 1066 |
| 3.333 | 42 | 0.32 | $M_2$ | 6 | 20 | 13 |
| | | | c | 4.7 | 1.6 | 2.3 |
| | | | $n_{2\,Eck}$ | 1185 | 1023 | 1215 |
| | | | $n_{2\,th}$ | 1070 | 795 | 935 |
| 4.053 | 45 | 0.31 | $M_2$ | 8 | 25 | 16 |
| | | | c | 4.1 | 1.4 | 2.1 |
| | | | $n_{2\,Eck}$ | 975 | 841 | 999 |
| | | | $n_{2\,th}$ | 953 | 707 | 842 |
| 4.571 | 48 | 0.30 | $M_2$ | 9 | 28 | 18 |
| | | | c | 3.9 | 1.3 | 1.9 |
| | | | $n_{2\,Eck}$ | 864 | 746 | 886 |
| | | | $n_{2\,th}$ | 837 | 612 | 736 |
| 5.187 | 50 | 0.22 | $M_2$ | 10 | 32 | 20 |
| | | | c | 3.6 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 762 | 657 | 781 |
| | | | $n_{2\,th}$ | 761 | 604 | 733 |
| 5.850 | 53 | 0.22 | $M_2$ | 11 | 36 | 23 |
| | | | c | 3.4 | 1.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 675 | 583 | 692 |
| | | | $n_{2\,th}$ | 675 | 523 | 630 |
| 6.400 | 55 | 0.19 | $M_2$ | 12 | 39 | 25 |
| | | | c | 3.2 | 1.1 | 1.6 |
| | | | $n_{2\,Eck}$ | 617 | 533 | 633 |
| | | | $n_{2\,th}$ | 617 | 492 | 585 |
| 7.040 | 57 | 0.26 | $M_2$ | 13 | 43 | 27 |
| | | | c | 3.0 | 1.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 561 | 484 | 575 |
| | | | $n_{2\,th}$ | 520 | 359 | 421 |
| 8.000 | 59 | 0.26 | $M_2$ | 15 | | 31 |
| | | | c | 2.7 | | 1.4 |
| | | | $n_{2\,Eck}$ | 494 | | 506 |
| | | | $n_{2\,th}$ | 450 | | 356 |
| 9.010 | 63 | 0.19 | $M_2$ | 17 | | 35 |
| | | | c | 2.6 | | 1.3 |
| | | | $n_{2\,Eck}$ | 438 | | 450 |
| | | | $n_{2\,th}$ | 438 | | 359 |
| 9.856 | 65 | 0.17 | $M_2$ | 19 | | 38 |
| | | | c | 2.5 | | 1.2 |
| | | | $n_{2\,Eck}$ | 401 | | 411 |
| | | | $n_{2\,th}$ | 401 | | 336 |
| 11.200 | 60 | 0.17 | $M_2$ | 22 | | |
| | | | c | 2.0 | | |
| | | | $n_{2\,Eck}$ | 353 | | |
| | | | $n_{2\,th}$ | 353 | | |
| 12.571 | 69 | 0.13 | $M_2$ | 24 | | 49 |
| | | | c | 2.1 | | 1.0 |
| | | | $n_{2\,Eck}$ | 314 | | 322 |
| | | | $n_{2\,th}$ | 314 | | 286 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

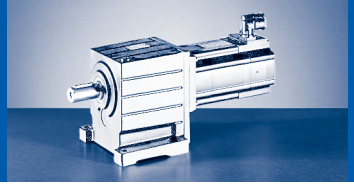
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 71$ Nm

| GST04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 14.286 | 61 | 0.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 28<br>1.6<br>277<br>277 | | |
| 15.400 | 70 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 30<br>1.9<br>257<br>256 | | |
| 17.500 | 62 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 34<br>1.5<br>226<br>226 | | |
| 19.360 | 70 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 37<br>1.5<br>204<br>204 | | |
| 22.000 | 62 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 43<br>1.2<br>180<br>180 | | |
| 24.933 | 71 | 0.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 48<br>1.2<br>158<br>158 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 54$ Nm

| GST05-1A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 1.600 | 45 | 0.76 | $M_2$ | | 10 | 6 | 19 | 10 | 17 | 8 |
| | | | c | | 3.4 | 5.1 | 2.3 | 3.9 | 2.0 | 3.8 |
| | | | $n_{2\,Eck}$ | | 2131 | 2531 | 1022 | 1250 | 2159 | 2563 |
| | | | $n_{2\,th}$ | | 2056 | 2215 | 1022 | 1250 | 1847 | 2093 |
| 2.048 | 53 | 0.55 | $M_2$ | | 12 | 8 | 24 | 13 | 22 | 11 |
| | | | c | | 3.1 | 4.7 | 2.1 | 3.5 | 1.8 | 3.5 |
| | | | $n_{2\,Eck}$ | | 1665 | 1978 | 799 | 977 | 1687 | 2002 |
| | | | $n_{2\,th}$ | | 1665 | 1856 | 798 | 977 | 1525 | 1753 |
| 2.240 | 53 | 0.48 | $M_2$ | | 14 | 9 | 26 | 14 | 24 | 12 |
| | | | c | | 2.9 | 4.3 | 2.0 | 3.3 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | 1522 | 1808 | 730 | 893 | 1542 | 1830 |
| | | | $n_{2\,th}$ | | 1522 | 1733 | 730 | 893 | 1397 | 1603 |
| 2.857 | 53 | 0.35 | $M_2$ | | 18 | 11 | 34 | 19 | 30 | 15 |
| | | | c | | 2.3 | 3.4 | 1.5 | 2.6 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | | 1194 | 1418 | 572 | 700 | 1209 | 1435 |
| | | | $n_{2\,th}$ | | 1194 | 1418 | 572 | 700 | 1157 | 1257 |
| 3.500 | 54 | 0.27 | $M_2$ | 7 | 22 | 14 | 41 | 23 | 37 | 18 |
| | | | c | 5.7 | 1.9 | 2.8 | 1.3 | 2.1 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | 1129 | 974 | 1157 | 467 | 571 | 987 | 1171 |
| | | | $n_{2\,th}$ | 1129 | 974 | 1157 | 467 | 571 | 987 | 1026 |
| 4.556 | 54 | 0.18 | $M_2$ | 9 | 28 | 18 | | | | |
| | | | c | 4.4 | 1.5 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 867 | 749 | 889 | | | | |
| | | | $n_{2\,th}$ | 867 | 749 | 889 | | | | |
| 5.667 | 54 | 0.13 | $M_2$ | 11 | 35 | 22 | | | | |
| | | | c | 3.5 | 1.2 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 697 | 602 | 715 | | | | |
| | | | $n_{2\,th}$ | 697 | 602 | 715 | | | | |
| 7.333 | 47 | 0.06 | $M_2$ | 14 | | | | | | |
| | | | c | 2.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 539 | | | | | | |
| | | | $n_{2\,th}$ | 539 | | | | | | |
| 8.900 | 42 | 0.06 | $M_2$ | 17 | | | | | | |
| | | | c | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 444 | | | | | | |
| | | | $n_{2\,th}$ | 444 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

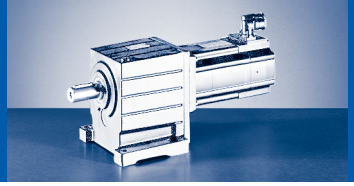
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 165$ Nm

| GST05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 2.956 | 63 | 0.99 | $M_2$ | | 18 | 11 | 34 | 19 | 31 | 15 |
| | | | c | | 2.7 | 4.0 | 1.8 | 3.0 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | 1154 | 1370 | 553 | 677 | 1169 | 1387 |
| | | | $n_{2\,th}$ | | 899 | 975 | 553 | 677 | 735 | 917 |
| 3.333 | 78 | 0.94 | $M_2$ | | 20 | 12 | 38 | 21 | 35 | 17 |
| | | | c | | 2.9 | 4.3 | 2.0 | 3.3 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | 1023 | 1215 | 491 | 600 | 1037 | 1230 |
| | | | $n_{2\,th}$ | | 813 | 880 | 491 | 600 | 684 | 828 |
| 4.053 | 81 | 0.90 | $M_2$ | | 24 | 15 | 47 | 26 | 42 | 21 |
| | | | c | | 2.5 | 3.7 | 1.7 | 2.8 | 1.5 | 2.7 |
| | | | $n_{2\,Eck}$ | | 841 | 999 | 403 | 493 | 852 | 1012 |
| | | | $n_{2\,th}$ | | 762 | 824 | 403 | 493 | 611 | 776 |
| 4.571 | 91 | 0.86 | $M_2$ | | 28 | 17 | 53 | 29 | 48 | 24 |
| | | | c | | 2.5 | 3.7 | 1.7 | 2.8 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 746 | 886 | 358 | 438 | 756 | 897 |
| | | | $n_{2\,th}$ | | 675 | 730 | 358 | 438 | 541 | 688 |
| 5.187 | 90 | 0.64 | $M_2$ | | 31 | 20 | 60 | 33 | 54 | 27 |
| | | | c | | 2.2 | 3.2 | 1.5 | 2.4 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 657 | 781 | 315 | 386 | 666 | 790 |
| | | | $n_{2\,th}$ | | 637 | 686 | 315 | 386 | 504 | 649 |
| 5.850 | 101 | 0.61 | $M_2$ | | 35 | 22 | 68 | 37 | 61 | 30 |
| | | | c | | 2.2 | 3.2 | 1.5 | 2.4 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 583 | 692 | 280 | 342 | 591 | 701 |
| | | | $n_{2\,th}$ | | 565 | 608 | 279 | 342 | 447 | 575 |
| 6.400 | 105 | 0.53 | $M_2$ | | 39 | 24 | 74 | 41 | 67 | 33 |
| | | | c | | 2.0 | 3.0 | 1.4 | 2.3 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 533 | 633 | 256 | 313 | 540 | 641 |
| | | | $n_{2\,th}$ | | 531 | 571 | 255 | 313 | 419 | 541 |
| 7.238 | 108 | 0.40 | $M_2$ | 13 | 44 | 28 | 84 | 47 | 76 | 38 |
| | | | c | 5.6 | 1.9 | 2.8 | 1.3 | 2.1 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 546 | 471 | 560 | 226 | 276 | 477 | 567 |
| | | | $n_{2\,th}$ | 546 | 471 | 560 | 226 | 276 | 419 | 496 |
| 8.163 | 115 | 0.39 | $M_2$ | 15 | 50 | 31 | 95 | 53 | 86 | 42 |
| | | | c | 5.3 | 1.8 | 2.6 | 1.2 | 2.0 | 1.0 | 1.9 |
| | | | $n_{2\,Eck}$ | 484 | 418 | 496 | 200 | 245 | 423 | 502 |
| | | | $n_{2\,th}$ | 484 | 418 | 496 | 200 | 245 | 363 | 440 |
| 9.010 | 119 | 0.54 | $M_2$ | 17 | 55 | 34 | 105 | 58 | | 47 |
| | | | c | 4.9 | 1.6 | 2.4 | 1.1 | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | 438 | 379 | 450 | 182 | 222 | | 455 |
| | | | $n_{2\,th}$ | 426 | 328 | 376 | 181 | 222 | | 344 |
| 10.000 | 124 | 0.30 | $M_2$ | 19 | 61 | 38 | 116 | 65 | | 52 |
| | | | c | 4.6 | 1.6 | 2.3 | 1.0 | 1.7 | | 1.7 |
| | | | $n_{2\,Eck}$ | 395 | 341 | 405 | 164 | 200 | | 410 |
| | | | $n_{2\,th}$ | 395 | 341 | 405 | 164 | 200 | | 359 |
| 11.200 | 128 | 0.46 | $M_2$ | 21 | 68 | 43 | | 72 | | 58 |
| | | | c | 4.3 | 1.4 | 2.1 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | 353 | 305 | 362 | | 179 | | 366 |
| | | | $n_{2\,th}$ | 346 | 258 | 306 | | 179 | | 269 |
| 13.016 | 137 | 0.18 | $M_2$ | 24 | 79 | 50 | | | | |
| | | | c | 3.9 | 1.3 | 2.0 | | | | |
| | | | $n_{2\,Eck}$ | 304 | 262 | 311 | | | | |
| | | | $n_{2\,th}$ | 303 | 262 | 311 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 165$ Nm

| GST05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 14.356 | 140 | 0.13 | $M_2$ | 27 | 88 | 55 | | | | |
| | | | c | 3.6 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 275 | 238 | 282 | | | | |
| | | | $n_{2\,th}$ | 275 | 238 | 282 | | | | |
| 16.190 | 148 | 0.13 | $M_2$ | 30 | 99 | 62 | | | | |
| | | | c | 3.9 | 1.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 244 | 211 | 250 | | | | |
| | | | $n_{2\,th}$ | 244 | 211 | 250 | | | | |
| 17.500 | 142 | 0.27 | $M_2$ | 33 | 107 | 67 | | 113 | | 91 |
| | | | c | 3.4 | 1.2 | 1.7 | | 1.3 | | 1.3 |
| | | | $n_{2\,Eck}$ | 226 | 195 | 231 | | 114 | | 234 |
| | | | $n_{2\,th}$ | 226 | 195 | 231 | | 114 | | 205 |
| 20.044 | 159 | 0.16 | $M_2$ | 38 | 122 | 77 | | | | |
| | | | c | 3.4 | 1.1 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 197 | 170 | 202 | | | | |
| | | | $n_{2\,th}$ | 197 | 170 | 202 | | | | |
| 22.778 | 144 | 0.16 | $M_2$ | 43 | | 88 | | | | |
| | | | c | 2.7 | | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 173 | | 178 | | | | |
| | | | $n_{2\,th}$ | 173 | | 178 | | | | |
| 24.933 | 162 | 0.12 | $M_2$ | 48 | | 96 | | | | |
| | | | c | 2.8 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 158 | | 162 | | | | |
| | | | $n_{2\,th}$ | 158 | | 162 | | | | |
| 28.333 | 147 | 0.12 | $M_2$ | 54 | | 110 | | | | |
| | | | c | 2.2 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 139 | | 143 | | | | |
| | | | $n_{2\,th}$ | 139 | | 143 | | | | |
| 32.267 | 164 | 0.08 | $M_2$ | 62 | | | | | | |
| | | | c | 2.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 122 | | | | | | |
| | | | $n_{2\,th}$ | 122 | | | | | | |
| 36.667 | 148 | 0.08 | $M_2$ | 71 | | | | | | |
| | | | c | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 108 | | | | | | |
| | | | $n_{2\,th}$ | 108 | | | | | | |
| 39.160 | 165 | 0.06 | $M_2$ | 75 | | | | | | |
| | | | c | 1.8 | | | | | | |
| | | | $n_{2\,Eck}$ | 101 | | | | | | |
| | | | $n_{2\,th}$ | 101 | | | | | | |
| 44.500 | 149 | 0.06 | $M_2$ | 86 | | | | | | |
| | | | c | 1.6 | | | | | | |
| | | | $n_{2\,Eck}$ | 89 | | | | | | |
| | | | $n_{2\,th}$ | 89 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

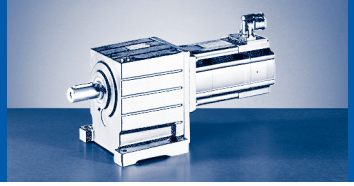
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 167$ Nm

| GST05-3A | | | | 10IC40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | - |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 36.267 | 134 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 69<br>1.6<br>109<br>109 |
| 46.259 | 145 | 0.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 88<br>1.5<br>85<br>85 |
| 56.667 | 155 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 108<br>1.3<br>70<br>70 |
| 63.467 | 146 | 0.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 121<br>1.1<br>62<br>62 |
| 71.238 | 167 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 136<br>1.1<br>56<br>55 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 105$ Nm

| GST06-1A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 1.600 | 61 | 2.01 | $M_2$ | | | | 18 | 10 | 17 | 8 | 34 | 17 | 30 | 15 |
| | | | c | | | | 3.2 | 5.3 | 2.7 | 5.2 | 1.8 | 3.1 | 1.6 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 1022 | 1250 | 2159 | 2563 | 1050 | 1438 | 2175 | 2569 |
| | | | $n_{2\,th}$ | | | | 1022 | 1250 | 1635 | 1862 | 1050 | 1438 | 1325 | 1660 |
| 2.048 | 72 | 1.46 | $M_2$ | | 12 | | 24 | 13 | 21 | 10 | 43 | 21 | 38 | 19 |
| | | | c | | 4.3 | | 2.9 | 4.9 | 2.5 | 4.8 | 1.6 | 2.9 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 1665 | | 799 | 977 | 1687 | 2002 | 821 | 1123 | 1700 | 2007 |
| | | | $n_{2\,th}$ | | 1628 | | 798 | 977 | 1459 | 1657 | 820 | 1123 | 1148 | 1481 |
| 2.240 | 79 | 1.27 | $M_2$ | | 13 | | 26 | 14 | 23 | 11 | 47 | 23 | 42 | 21 |
| | | | c | | 4.3 | | 2.9 | 4.8 | 2.5 | 4.7 | 1.6 | 2.9 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 1522 | | 730 | 893 | 1542 | 1830 | 750 | 1027 | 1554 | 1835 |
| | | | $n_{2\,th}$ | | 1522 | | 730 | 893 | 1379 | 1561 | 750 | 1027 | 1093 | 1389 |
| 2.857 | 92 | 0.97 | $M_2$ | | 17 | 11 | 33 | 18 | 30 | 15 | 60 | 30 | 53 | 26 |
| | | | c | | 4.0 | 5.9 | 2.7 | 4.5 | 2.3 | 4.4 | 1.5 | 2.6 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | | 1194 | 1418 | 572 | 700 | 1209 | 1435 | 588 | 805 | 1218 | 1439 |
| | | | $n_{2\,th}$ | | 1194 | 1395 | 572 | 700 | 1184 | 1257 | 588 | 805 | 944 | 1089 |
| 3.500 | 105 | 0.74 | $M_2$ | | 21 | 13 | 41 | 22 | 37 | 18 | 74 | 37 | 65 | 32 |
| | | | c | | 3.7 | 5.5 | 2.5 | 4.1 | 2.1 | 4.0 | 1.4 | 2.4 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 974 | 1157 | 467 | 571 | 987 | 1171 | 480 | 657 | 994 | 1174 |
| | | | $n_{2\,th}$ | | 974 | 1157 | 467 | 571 | 987 | 1026 | 480 | 657 | 861 | 889 |
| 4.556 | 105 | 0.48 | $M_2$ | | 28 | 17 | 53 | 29 | 48 | 24 | | | | |
| | | | c | | 2.8 | 4.2 | 1.9 | 3.2 | 1.6 | 3.1 | | | | |
| | | | $n_{2\,Eck}$ | | 749 | 889 | 359 | 439 | 758 | 900 | | | | |
| | | | $n_{2\,th}$ | | 749 | 889 | 359 | 439 | 758 | 788 | | | | |
| 5.667 | 82 | 0.36 | $M_2$ | 11 | | | | | | | | | | |
| | | | c | 5.3 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 697 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 697 | | | | | | | | | | |
| 5.667 | 105 | 0.36 | $M_2$ | | 35 | 22 | 67 | 37 | 60 | 30 | | | | |
| | | | c | | 2.3 | 3.4 | 1.5 | 2.6 | 1.3 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | | 602 | 715 | 289 | 353 | 610 | 724 | | | | |
| | | | $n_{2\,th}$ | | 602 | 715 | 289 | 353 | 610 | 634 | | | | |
| 7.333 | 95 | 0.23 | $M_2$ | 14 | | | | | | | | | | |
| | | | c | 4.8 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 539 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 539 | | | | | | | | | | |
| 7.333 | 100 | 0.23 | $M_2$ | | 45 | 28 | | | | | | | | |
| | | | c | | 1.7 | 2.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 465 | 552 | | | | | | | | |
| | | | $n_{2\,th}$ | | 465 | 552 | | | | | | | | |
| 8.900 | 85 | 0.17 | $M_2$ | 17 | 55 | 35 | | | | | | | | |
| | | | c | 3.5 | 1.2 | 1.8 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 444 | 383 | 455 | | | | | | | | |
| | | | $n_{2\,th}$ | 444 | 383 | 455 | | | | | | | | |
| 11.250 | 63 | 0.11 | $M_2$ | 22 | | | | | | | | | | |
| | | | c | 2.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 351 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 351 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

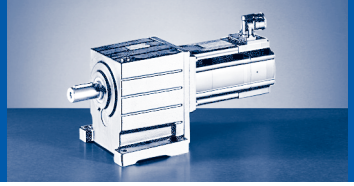
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 368$ Nm

| GST06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 3.033 | 166 | 2.72 | $M_2$ | | | | 34 | | 31 | | 62 | 31 | 55 | 27 |
| | | | c | | | | 4.6 | | 4.0 | | 2.5 | 4.5 | 2.3 | 4.3 |
| | | | $n_{2\,Eck}$ | | | | 539 | | 1139 | | 554 | 758 | 1147 | 1355 |
| | | | $n_{2\,th}$ | | | | 539 | | 803 | | 554 | 758 | 708 | 815 |
| 3.333 | 174 | 2.61 | $M_2$ | | | | 37 | | 34 | | 69 | 34 | 61 | 30 |
| | | | c | | | | 4.4 | | 3.8 | | 2.4 | 4.3 | 2.1 | 4.1 |
| | | | $n_{2\,Eck}$ | | | | 491 | | 1037 | | 504 | 690 | 1044 | 1233 |
| | | | $n_{2\,th}$ | | | | 491 | | 724 | | 504 | 690 | 637 | 734 |
| 4.160 | 191 | 2.51 | $M_2$ | | | | 47 | | 43 | | 86 | 42 | 76 | 37 |
| | | | c | | | | 3.8 | | 3.3 | | 2.1 | 3.8 | 1.9 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | 393 | | 831 | | 404 | 553 | 837 | 988 |
| | | | $n_{2\,th}$ | | | | 393 | | 656 | | 404 | 553 | 569 | 665 |
| 4.571 | 200 | 2.41 | $M_2$ | | | | 52 | | 47 | 23 | 94 | 47 | 84 | 41 |
| | | | c | | | | 3.7 | | 3.2 | 6.0 | 2.0 | 3.6 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | 358 | | 756 | 897 | 368 | 503 | 761 | 899 |
| | | | $n_{2\,th}$ | | | | 358 | | 590 | 670 | 368 | 503 | 503 | 599 |
| 5.324 | 207 | 1.76 | $M_2$ | | 31 | | 61 | 33 | 55 | 27 | 110 | 55 | 98 | 48 |
| | | | c | | 4.9 | | 3.3 | 5.4 | 2.8 | 5.3 | 1.8 | 3.2 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 641 | | 307 | 376 | 649 | 770 | 316 | 432 | 654 | 772 |
| | | | $n_{2\,th}$ | | 640 | | 307 | 376 | 574 | 651 | 316 | 432 | 470 | 583 |
| 5.850 | 222 | 1.71 | $M_2$ | | 34 | | 67 | 36 | 60 | 29 | 121 | 60 | 107 | 53 |
| | | | c | | 4.7 | | 3.2 | 5.3 | 2.7 | 5.2 | 1.8 | 3.1 | 1.6 | 2.9 |
| | | | $n_{2\,Eck}$ | | 583 | | 280 | 342 | 591 | 701 | 287 | 393 | 595 | 703 |
| | | | $n_{2\,th}$ | | 579 | | 279 | 342 | 520 | 589 | 287 | 393 | 421 | 527 |
| 6.400 | 229 | 1.47 | $M_2$ | | 38 | | 73 | 40 | 66 | 32 | 133 | 66 | 117 | 58 |
| | | | c | | 4.5 | | 3.0 | 5.0 | 2.6 | 4.9 | 1.7 | 3.0 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 533 | | 256 | 313 | 540 | 641 | 263 | 359 | 544 | 642 |
| | | | $n_{2\,th}$ | | 533 | | 255 | 313 | 487 | 550 | 263 | 359 | 390 | 486 |
| 7.040 | 236 | 2.07 | $M_2$ | | | | 80 | 44 | 73 | 36 | 146 | 72 | 129 | 64 |
| | | | c | | | | 2.8 | 4.7 | 2.4 | 4.6 | 1.6 | 2.8 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 232 | 284 | 491 | 582 | 239 | 327 | 494 | 584 |
| | | | $n_{2\,th}$ | | | | 232 | 284 | 362 | 414 | 239 | 327 | 283 | 368 |
| 8.163 | 252 | 1.06 | $M_2$ | | 48 | 30 | 94 | 51 | 84 | 41 | 170 | 84 | 150 | 74 |
| | | | c | | 3.8 | 5.7 | 2.6 | 4.3 | 2.2 | 4.2 | 1.4 | 2.6 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 418 | 496 | 200 | 245 | 423 | 502 | 206 | 282 | 426 | 504 |
| | | | $n_{2\,th}$ | | 418 | 486 | 200 | 245 | 412 | 440 | 206 | 282 | 326 | 381 |
| 9.010 | 261 | 1.50 | $M_2$ | | 54 | 33 | 103 | 57 | 93 | 46 | 187 | 93 | 166 | 82 |
| | | | c | | 3.6 | 5.4 | 2.4 | 4.1 | 2.1 | 4.0 | 1.3 | 2.4 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 379 | 450 | 182 | 222 | 384 | 455 | 187 | 255 | 386 | 456 |
| | | | $n_{2\,th}$ | | 357 | 385 | 181 | 222 | 318 | 364 | 186 | 255 | 237 | 323 |
| 10.000 | 269 | 0.82 | $M_2$ | | 60 | 37 | 115 | 63 | 104 | 51 | 208 | 103 | 184 | 91 |
| | | | c | | 3.4 | 5.0 | 2.3 | 3.8 | 2.0 | 3.7 | 1.2 | 2.2 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 341 | 405 | 164 | 200 | 346 | 410 | 168 | 230 | 348 | 411 |
| | | | $n_{2\,th}$ | | 341 | 405 | 164 | 200 | 346 | 359 | 168 | 230 | 289 | 311 |
| 11.200 | 280 | 1.26 | $M_2$ | | 67 | 42 | 129 | 71 | 116 | 57 | 233 | 116 | 206 | 102 |
| | | | c | | 3.1 | 4.6 | 2.1 | 3.5 | 1.8 | 3.4 | 1.2 | 2.1 | 1.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | 305 | 362 | 146 | 179 | 309 | 366 | 150 | 205 | 311 | 367 |
| | | | $n_{2\,th}$ | | 289 | 311 | 146 | 179 | 250 | 294 | 150 | 205 | 188 | 260 |
| 12.571 | 295 | 0.96 | $M_2$ | | 75 | 47 | 145 | 80 | 131 | 64 | 262 | 130 | | 115 |
| | | | c | | 2.9 | 4.3 | 2.0 | 3.3 | 1.7 | 3.2 | 1.1 | 1.9 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 271 | 322 | 130 | 159 | 275 | 326 | 134 | 183 | | 327 |
| | | | $n_{2\,th}$ | | 271 | 301 | 130 | 159 | 242 | 286 | 134 | 183 | | 247 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 368$ Nm

| GST06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 14.286 | 307 | 0.93 | $M_2$ | | 86 | 54 | 165 | 91 | 149 | 73 | | 148 | | 131 |
| | | | c | | 2.7 | 4.0 | 1.8 | 3.0 | 1.6 | 2.9 | | 1.8 | | 1.7 |
| | | | $n_{2\,Eck}$ | | 239 | 284 | 115 | 140 | 242 | 287 | | 161 | | 288 |
| | | | $n_{2\,th}$ | | 239 | 261 | 114 | 140 | 204 | 248 | | 161 | | 211 |
| 15.400 | 318 | 0.75 | $M_2$ | | 92 | 58 | 178 | 98 | 160 | 79 | | 160 | | 141 |
| | | | c | | 2.9 | 4.3 | 1.8 | 3.2 | 1.7 | 3.2 | | 1.9 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 221 | 263 | 106 | 130 | 224 | 266 | | 149 | | 267 |
| | | | $n_{2\,th}$ | | 221 | 263 | 106 | 130 | 224 | 233 | | 149 | | 202 |
| 17.500 | 313 | 0.73 | $M_2$ | | 105 | 66 | 203 | 112 | 182 | 90 | | 182 | | 160 |
| | | | c | | 2.5 | 3.8 | 1.5 | 2.8 | 1.5 | 2.8 | | 1.7 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 195 | 231 | 93 | 114 | 197 | 234 | | 131 | | 235 |
| | | | $n_{2\,th}$ | | 195 | 231 | 93 | 114 | 189 | 205 | | 131 | | 178 |
| 20.044 | 350 | 0.46 | $M_2$ | | 121 | 76 | 232 | 128 | 209 | 103 | | | | |
| | | | c | | 2.5 | 3.7 | 1.5 | 2.7 | 1.4 | 2.7 | | | | |
| | | | $n_{2\,Eck}$ | | 170 | 202 | 82 | 100 | 172 | 205 | | | | |
| | | | $n_{2\,th}$ | | 170 | 202 | 82 | 100 | 172 | 179 | | | | |
| 22.778 | 315 | 0.45 | $M_2$ | 42 | 138 | 87 | 265 | 146 | 238 | 118 | | | | |
| | | | c | 5.9 | 2.0 | 2.9 | 1.2 | 2.1 | 1.1 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 173 | 150 | 178 | 72 | 88 | 152 | 180 | | | | |
| | | | $n_{2\,th}$ | 173 | 150 | 178 | 72 | 88 | 152 | 158 | | | | |
| 24.933 | 360 | 0.33 | $M_2$ | | 151 | 95 | 290 | 160 | 261 | 129 | | | | |
| | | | c | | 2.0 | 3.0 | 1.2 | 2.2 | 1.2 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | | 137 | 162 | 66 | 80 | 139 | 164 | | | | |
| | | | $n_{2\,th}$ | | 137 | 162 | 66 | 80 | 139 | 144 | | | | |
| 28.333 | 317 | 0.33 | $M_2$ | 53 | 172 | 108 | | 183 | | 147 | | | | |
| | | | c | 4.7 | 1.6 | 2.4 | | 1.7 | | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 139 | 120 | 143 | | 71 | | 145 | | | | |
| | | | $n_{2\,th}$ | 139 | 120 | 143 | | 71 | | 127 | | | | |
| 32.267 | 363 | 0.22 | $M_2$ | 60 | 196 | 123 | | | | | | | | |
| | | | c | 4.8 | 1.6 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 122 | 106 | 126 | | | | | | | | |
| | | | $n_{2\,th}$ | 122 | 106 | 126 | | | | | | | | |
| 36.667 | 322 | 0.22 | $M_2$ | 69 | 224 | 141 | | | | | | | | |
| | | | c | 3.7 | 1.2 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 108 | 93 | 111 | | | | | | | | |
| | | | $n_{2\,th}$ | 108 | 93 | 110 | | | | | | | | |
| 39.160 | 368 | 0.16 | $M_2$ | 74 | 239 | 150 | | | | | | | | |
| | | | c | 4.0 | 1.3 | 2.0 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 101 | 87 | 103 | | | | | | | | |
| | | | $n_{2\,th}$ | 101 | 87 | 103 | | | | | | | | |
| 44.500 | 325 | 0.16 | $M_2$ | 84 | 272 | 171 | | | | | | | | |
| | | | c | 3.4 | 1.2 | 1.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 89 | 77 | 91 | | | | | | | | |
| | | | $n_{2\,th}$ | 89 | 77 | 91 | | | | | | | | |
| 49.500 | 278 | 0.11 | $M_2$ | 94 | | | | | | | | | | |
| | | | c | 2.6 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 80 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 80 | | | | | | | | | | |
| 56.250 | 316 | 0.11 | $M_2$ | 107 | | | | | | | | | | |
| | | | c | 2.6 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 70 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 70 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

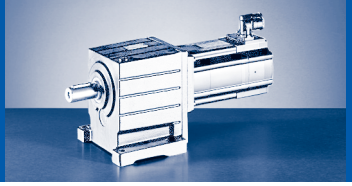
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 375$ Nm

| GST06-3A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 39.200 | 321 | 0.36 | $M_2$ | 73 | 236 | 149 |
| | | | c | 3.5 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 101 | 87 | 103 |
| | | | $n_{2\,th}$ | 101 | 87 | 103 |
| 44.000 | 335 | 0.20 | $M_2$ | 82 | 264 | 167 |
| | | | c | 3.6 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 90 | 78 | 92 |
| | | | $n_{2\,th}$ | 90 | 78 | 92 |
| 51.022 | 325 | 0.32 | $M_2$ | 95 | 307 | 194 |
| | | | c | 3.0 | 1.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 77 | 67 | 79 |
| | | | $n_{2\,th}$ | 77 | 67 | 79 |
| 53.900 | 349 | 0.18 | $M_2$ | 101 | 324 | 205 |
| | | | c | 3.1 | 1.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 73 | 63 | 75 |
| | | | $n_{2\,th}$ | 73 | 63 | 75 |
| 67.760 | 365 | 0.11 | $M_2$ | 127 | | |
| | | | c | 2.6 | | |
| | | | $n_{2\,Eck}$ | 58 | | |
| | | | $n_{2\,th}$ | 58 | | |
| 70.156 | 359 | 0.16 | $M_2$ | 132 | | 268 |
| | | | c | 2.4 | | 1.2 |
| | | | $n_{2\,Eck}$ | 56 | | 58 |
| | | | $n_{2\,th}$ | 56 | | 58 |
| 80.952 | 332 | 0.20 | $M_2$ | 153 | | |
| | | | c | 2.0 | | |
| | | | $n_{2\,Eck}$ | 49 | | |
| | | | $n_{2\,th}$ | 49 | | |
| 87.267 | 370 | 0.15 | $M_2$ | 165 | | 334 |
| | | | c | 2.0 | | 1.0 |
| | | | $n_{2\,Eck}$ | 45 | | 46 |
| | | | $n_{2\,th}$ | 45 | | 46 |
| 99.167 | 336 | 0.15 | $M_2$ | 188 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 40 | | |
| | | | $n_{2\,th}$ | 40 | | |
| 109.707 | 375 | 0.10 | $M_2$ | 208 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 36 | | |
| | | | $n_{2\,th}$ | 36 | | |
| 124.667 | 339 | 0.10 | $M_2$ | 238 | | |
| | | | c | 1.3 | | |
| | | | $n_{2\,Eck}$ | 32 | | |
| | | | $n_{2\,th}$ | 32 | | |
| 141.289 | 375 | 0.06 | $M_2$ | 269 | | |
| | | | c | 1.3 | | |
| | | | $n_{2\,Eck}$ | 28 | | |
| | | | $n_{2\,th}$ | 28 | | |
| 160.556 | 342 | 0.06 | $M_2$ | 307 | | |
| | | | c | 1.0 | | |
| | | | $n_{2\,Eck}$ | 25 | | |
| | | | $n_{2\,th}$ | 25 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

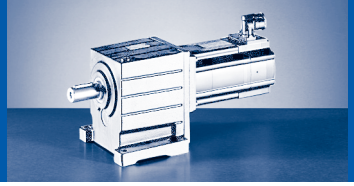


## $M_{2\,GN} \leq 196$ Nm

| GST07-1A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 1.625 | 106 | 6.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 34<br>3.0<br>1034<br>1034 | 17<br>5.3<br>1415<br>1415 |
| 2.000 | 124 | 4.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 23<br>5.1<br>818<br>818 | | 21<br>4.4<br>1728<br>1386 | | 42<br>2.8<br>840<br>840 | 20<br>5.1<br>1150<br>1150 |
| 2.240 | 135 | 4.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 25<br>4.9<br>730<br>730 | | 23<br>4.3<br>1542<br>1280 | | 47<br>2.7<br>750<br>750 | 23<br>4.9<br>1027<br>1027 |
| 2.857 | 118 | 2.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 17<br>5.1<br>1194<br>1194 | | | | | | | |
| 2.857 | 159 | 2.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 33<br>4.6<br>572<br>572 | | 29<br>4.0<br>1209<br>1154 | | 60<br>2.5<br>588<br>588 | 29<br>4.5<br>805<br>805 |
| 3.500 | 172 | 2.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 40<br>4.0<br>467<br>467 | | 36<br>3.5<br>987<br>987 | | 73<br>2.2<br>480<br>480 | 36<br>4.0<br>657<br>657 |
| 4.556 | 150 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 27<br>4.0<br>749<br>749 | 17<br>6.0<br>889<br>889 | | | | | | |
| 4.556 | 186 | 1.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 53<br>3.4<br>359<br>359 | 29<br>5.6<br>439<br>439 | 48<br>2.9<br>758<br>758 | 23<br>5.5<br>900<br>788 | 96<br>1.9<br>369<br>369 | 47<br>3.3<br>505<br>505 |
| 5.583 | 156 | 1.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 34<br>3.4<br>611<br>611 | 21<br>5.1<br>725<br>725 | | | | | | |
| 5.583 | 196 | 1.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 65<br>2.9<br>293<br>293 | 35<br>4.8<br>358<br>358 | 58<br>2.5<br>619<br>619 | 29<br>4.7<br>734<br>643 | 118<br>1.6<br>301<br>301 | 58<br>2.9<br>412<br>412 |
| 7.333 | 107 | 0.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14<br>5.3<br>539<br>539 | | | | | | | | |
| 7.333 | 161 | 0.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 45<br>2.7<br>465<br>465 | 28<br>4.0<br>552<br>552 | | | | | | |
| 7.333 | 196 | 0.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 86<br>2.2<br>223<br>223 | 47<br>3.7<br>273<br>273 | 77<br>1.9<br>471<br>471 | 38<br>3.6<br>559<br>490 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 196$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC42 | GST07-1A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 30 | 15 | 58 | 25 | 57 | 19 | 98 | 39 | 27 | $M_2$ | 6.12 | 106 | 1.625 |
| 2.6 | 5.0 | 1.8 | 3.5 | 1.4 | 3.9 | 1.0 | 2.3 | 2.8 | c | | | |
| 2142 | 2529 | 1046 | 1440 | 2160 | 2554 | 1052 | 1532 | 2560 | $n_{2\,Eck}$ | | | |
| 1347 | 1547 | 1046 | 1437 | 1027 | 1473 | 887 | 1239 | 1239 | $n_{2\,th}$ | | | |
| 37 | 18 | 71 | 31 | 71 | 23 | | 48 | 33 | $M_2$ | 4.78 | 124 | 2.000 |
| 2.5 | 4.7 | 1.7 | 3.3 | 1.3 | 3.7 | | 2.2 | 2.6 | c | | | |
| 1740 | 2055 | 850 | 1170 | 1755 | 2075 | | 1245 | 2080 | $n_{2\,Eck}$ | | | |
| 1225 | 1406 | 850 | 1170 | 915 | 1224 | | 1007 | 1007 | $n_{2\,th}$ | | | |
| 41 | 20 | 80 | 35 | 79 | 26 | | 54 | 37 | $M_2$ | 4.02 | 135 | 2.240 |
| 2.4 | 4.6 | 1.6 | 3.2 | 1.3 | 3.6 | | 2.1 | 2.6 | c | | | |
| 1554 | 1835 | 759 | 1045 | 1567 | 1853 | | 1112 | 1857 | $n_{2\,Eck}$ | | | |
| 1136 | 1298 | 759 | 1045 | 854 | 1093 | | 899 | 899 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 2.69 | 118 | 2.857 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 53 | 26 | 102 | 45 | 101 | 33 | | | | $M_2$ | 2.69 | 159 | 2.857 |
| 2.2 | 4.2 | 1.5 | 3.0 | 1.2 | 3.4 | | | | c | | | |
| 1218 | 1439 | 595 | 819 | 1229 | 1453 | | | | $n_{2\,Eck}$ | | | |
| 1027 | 1089 | 595 | 819 | 753 | 857 | | | | $n_{2\,th}$ | | | |
| 65 | 32 | 125 | 55 | 124 | 41 | | | | $M_2$ | 2.15 | 172 | 3.500 |
| 2.0 | 3.8 | 1.3 | 2.6 | 1.0 | 3.0 | | | | c | | | |
| 994 | 1174 | 486 | 669 | 1003 | 1186 | | | | $n_{2\,Eck}$ | | | |
| 889 | 889 | 486 | 669 | 663 | 700 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 1.37 | 150 | 4.556 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 85 | 42 | | | | | | | | $M_2$ | 1.37 | 186 | 4.556 |
| 1.7 | 3.1 | | | | | | | | c | | | |
| 764 | 902 | | | | | | | | $n_{2\,Eck}$ | | | |
| 683 | 683 | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 1.05 | 156 | 5.583 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 104 | 51 | | | | | | | | $M_2$ | 1.05 | 196 | 5.583 |
| 1.4 | 2.7 | | | | | | | | c | | | |
| 623 | 736 | | | | | | | | $n_{2\,Eck}$ | | | |
| 557 | 557 | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 0.66 | 107 | 7.333 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 0.66 | 161 | 7.333 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 0.66 | 196 | 7.333 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

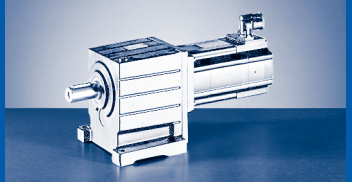
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 196$ Nm

| GST07-1A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 8.900 | 113 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17<br>4.7<br>444<br>444 | | | | | | | | |
| 8.900 | 164 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 55<br>2.3<br>383<br>383 | 34<br>3.4<br>455<br>455 | | | | | | |
| 8.900 | 183 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 104<br>1.7<br>184<br>184 | 58<br>2.8<br>225<br>225 | 94<br>1.5<br>388<br>388 | 46<br>2.8<br>461<br>403 | | |
| 11.250 | 114 | 0.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 22<br>3.7<br>351<br>351 | | | | | | | | |
| 11.250 | 136 | 0.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 69<br>1.5<br>303<br>303 | 44<br>2.2<br>360<br>360 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 196$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC42 | GST07-1A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 113 | 8.900 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 164 | 8.900 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.49 | 183 | 8.900 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.32 | 114 | 11.250 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.32 | 136 | 11.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

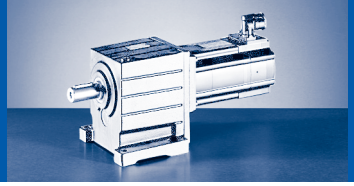
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 707$ Nm

| GST07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 3.048 | 317 | 8.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 61<br>4.8<br>551<br>551 | |
| 3.048 | 351 | 8.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 3.350 | 349 | 7.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 67<br>4.8<br>502<br>502 | |
| 3.350 | 367 | 7.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 4.225 | 398 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 85<br>4.4<br>398<br>398 | |
| 4.643 | 414 | 7.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 94<br>4.1<br>362<br>362 | |
| 5.200 | 405 | 5.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 52<br>5.6<br>664<br>560 | | | |
| 5.200 | 427 | 5.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 105<br>3.8<br>323<br>323 | |
| 5.714 | 445 | 5.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 57<br>5.6<br>605<br>510 | | | |
| 5.714 | 448 | 5.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 116<br>3.6<br>294<br>294 | |
| 6.400 | 463 | 4.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 64<br>5.2<br>540<br>466 | | 130<br>3.3<br>263<br>263 | 64<br>6.0<br>359<br>359 |
| 7.150 | 489 | 6.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 146<br>3.2<br>235<br>235 | 71<br>5.7<br>322<br>322 |
| 8.125 | 539 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 166<br>3.1<br>207<br>207 | 81<br>5.5<br>283<br>283 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 707$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 54 | | | | | | | | | | $M_2$ | 8.20 | 317 | 3.048 |
| 4.3 | | | | | | | | | | c | | | |
| 1142 | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 693 | | | | | | | | | | $n_{2\,th}$ | | | |
| | | 105 | | 105 | | 180 | 70 | 162 | 48 | $M_2$ | 8.20 | 351 | 3.048 |
| | | 3.1 | | 2.5 | | 1.9 | 4.1 | 1.6 | 5.0 | c | | | |
| | | 558 | | 1152 | | 561 | 817 | 1155 | 1365 | $n_{2\,Eck}$ | | | |
| | | 558 | | 610 | | 554 | 661 | 511 | 661 | $n_{2\,th}$ | | | |
| 60 | | | | | | | | | | $M_2$ | 7.92 | 349 | 3.350 |
| 4.3 | | | | | | | | | | c | | | |
| 1039 | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 631 | | | | | | | | | | $n_{2\,th}$ | | | |
| | | 116 | 50 | 115 | | 198 | 78 | 178 | 53 | $M_2$ | 7.92 | 367 | 3.350 |
| | | 3.0 | 6.0 | 2.4 | | 1.8 | 3.9 | 1.5 | 4.7 | c | | | |
| | | 508 | 699 | 1048 | | 511 | 743 | 1051 | 1242 | $n_{2\,Eck}$ | | | |
| | | 508 | 678 | 548 | | 488 | 601 | 451 | 601 | $n_{2\,th}$ | | | |
| 76 | | 146 | 64 | 146 | 47 | 250 | 98 | 225 | 67 | $M_2$ | 7.65 | 398 | 4.225 |
| 3.9 | | 2.6 | 5.1 | 2.0 | 5.8 | 1.5 | 3.3 | 1.3 | 4.1 | c | | | |
| 824 | | 402 | 554 | 831 | 982 | 405 | 589 | 833 | 985 | $n_{2\,Eck}$ | | | |
| 564 | | 402 | 554 | 487 | 580 | 405 | 477 | 386 | 477 | $n_{2\,th}$ | | | |
| 83 | | 161 | 71 | 161 | 52 | 275 | 108 | 247 | 74 | $M_2$ | 7.39 | 414 | 4.643 |
| 3.7 | | 2.4 | 4.9 | 1.9 | 5.5 | 1.4 | 3.2 | 1.3 | 3.9 | c | | | |
| 750 | | 366 | 504 | 756 | 894 | 368 | 536 | 758 | 896 | $n_{2\,Eck}$ | | | |
| 507 | | 366 | 504 | 434 | 527 | 366 | 434 | 341 | 434 | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 5.64 | 405 | 5.200 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 94 | | 181 | 79 | 180 | 58 | 309 | 122 | 277 | 84 | $M_2$ | 5.64 | 427 | 5.200 |
| 3.4 | | 2.2 | 4.5 | 1.8 | 5.0 | 1.3 | 2.9 | 1.2 | 3.6 | c | | | |
| 669 | | 327 | 450 | 675 | 798 | 329 | 479 | 677 | 800 | $n_{2\,Eck}$ | | | |
| 504 | | 327 | 450 | 417 | 471 | 329 | 387 | 330 | 387 | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 5.46 | 445 | 5.714 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 103 | | 199 | 87 | 198 | 64 | 339 | 134 | 305 | 92 | $M_2$ | 5.46 | 448 | 5.714 |
| 3.2 | | 2.1 | 4.3 | 1.7 | 4.8 | 1.3 | 2.8 | 1.1 | 3.4 | c | | | |
| 609 | | 298 | 410 | 614 | 726 | 299 | 436 | 616 | 728 | $n_{2\,Eck}$ | | | |
| 454 | | 298 | 410 | 369 | 429 | 299 | 352 | 293 | 352 | $n_{2\,th}$ | | | |
| 116 | 56 | 223 | 98 | 222 | 72 | 381 | 150 | 341 | 103 | $M_2$ | 4.49 | 463 | 6.400 |
| 3.0 | 5.6 | 2.0 | 4.0 | 1.6 | 4.4 | 1.2 | 2.6 | 1.0 | 3.1 | c | | | |
| 544 | 642 | 266 | 366 | 548 | 648 | 267 | 389 | 550 | 650 | $n_{2\,Eck}$ | | | |
| 415 | 472 | 266 | 366 | 332 | 383 | 267 | 315 | 269 | 315 | $n_{2\,th}$ | | | |
| 129 | 63 | 250 | 110 | 249 | 81 | 426 | 168 | | 116 | $M_2$ | 6.27 | 489 | 7.150 |
| 2.8 | 5.3 | 1.9 | 3.7 | 1.5 | 4.2 | 1.1 | 2.4 | | 3.0 | c | | | |
| 487 | 575 | 238 | 327 | 491 | 580 | 239 | 348 | | 582 | $n_{2\,Eck}$ | | | |
| 311 | 356 | 238 | 327 | 241 | 339 | 207 | 282 | | 282 | $n_{2\,th}$ | | | |
| 147 | 72 | 284 | 125 | 283 | 92 | 484 | 191 | | 131 | $M_2$ | 6.04 | 539 | 8.125 |
| 2.7 | 5.1 | 1.8 | 3.6 | 1.4 | 4.1 | 1.1 | 2.4 | | 2.9 | c | | | |
| 428 | 506 | 209 | 288 | 432 | 511 | 211 | 307 | | 512 | $n_{2\,Eck}$ | | | |
| 271 | 311 | 209 | 288 | 209 | 297 | 180 | 248 | | 248 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

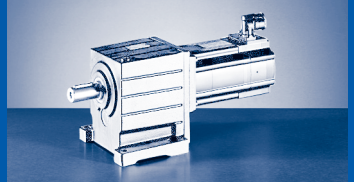
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 707$ Nm

| GST07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 8.800 | 527 | 4.73 | $M_2$ | | | | 98 | | 89 | | 180 | 88 |
| | | | c | | | | 5.0 | | 4.3 | | 2.8 | 5.0 |
| | | | $n_{2\,Eck}$ | | | | 186 | | 393 | | 191 | 261 |
| | | | $n_{2\,th}$ | | | | 186 | | 314 | | 191 | 261 |
| 9.856 | 549 | 3.90 | $M_2$ | | | | 110 | | 100 | | 202 | 99 |
| | | | c | | | | 4.7 | | 4.0 | | 2.6 | 4.6 |
| | | | $n_{2\,Eck}$ | | | | 166 | | 351 | | 171 | 233 |
| | | | $n_{2\,th}$ | | | | 166 | | 287 | | 170 | 233 |
| 11.200 | 598 | 3.78 | $M_2$ | | | | 126 | | 114 | | 230 | 113 |
| | | | c | | | | 4.5 | | 3.9 | | 2.5 | 4.4 |
| | | | $n_{2\,Eck}$ | | | | 146 | | 309 | | 150 | 205 |
| | | | $n_{2\,th}$ | | | | 146 | | 251 | | 150 | 205 |
| 12.571 | 513 | 2.86 | $M_2$ | | 74 | | | | | | | |
| | | | c | | 5.1 | | | | | | | |
| | | | $n_{2\,Eck}$ | | 271 | | | | | | | |
| | | | $n_{2\,th}$ | | 271 | | | | | | | |
| 12.571 | 601 | 2.86 | $M_2$ | | | | 142 | | 128 | | 259 | 128 |
| | | | c | | | | 4.0 | | 3.5 | | 2.2 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | 130 | | 275 | | 134 | 183 |
| | | | $n_{2\,th}$ | | | | 130 | | 255 | | 134 | 183 |
| 14.286 | 583 | 2.79 | $M_2$ | | 84 | | | | | | | |
| | | | c | | 5.1 | | | | | | | |
| | | | $n_{2\,Eck}$ | | 239 | | | | | | | |
| | | | $n_{2\,th}$ | | 239 | | | | | | | |
| 14.286 | 642 | 2.79 | $M_2$ | | | | 162 | | 146 | | 295 | 146 |
| | | | c | | | | 3.8 | | 3.3 | | 2.1 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | 115 | | 242 | | 118 | 161 |
| | | | $n_{2\,th}$ | | | | 114 | | 222 | | 118 | 161 |
| 15.400 | 644 | 2.26 | $M_2$ | | | | 175 | | 157 | | 318 | 156 |
| | | | c | | | | 3.6 | | 3.4 | | 2.0 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | 106 | | 224 | | 109 | 149 |
| | | | $n_{2\,th}$ | | | | 106 | | 224 | | 109 | 149 |
| 17.500 | 680 | 2.21 | $M_2$ | | | | 199 | 108 | 179 | | 362 | 178 |
| | | | c | | | | 3.3 | 6.0 | 3.2 | | 1.9 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | 93 | 114 | 197 | | 96 | 131 |
| | | | $n_{2\,th}$ | | | | 93 | 114 | 197 | | 96 | 131 |
| 20.044 | 650 | 1.38 | $M_2$ | | 118 | | | | | | | |
| | | | c | | 4.6 | | | | | | | |
| | | | $n_{2\,Eck}$ | | 170 | | | | | | | |
| | | | $n_{2\,th}$ | | 170 | | | | | | | |
| 20.044 | 694 | 1.38 | $M_2$ | | | | 229 | 124 | 206 | 100 | 415 | 205 |
| | | | c | | | | 3.0 | 5.3 | 2.8 | 5.4 | 1.7 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | 82 | 100 | 172 | 205 | 84 | 115 |
| | | | $n_{2\,th}$ | | | | 82 | 100 | 172 | 179 | 84 | 115 |
| 22.778 | 682 | 1.35 | $M_2$ | | 135 | | 261 | 143 | 235 | 115 | 473 | 234 |
| | | | c | | 4.2 | | 2.6 | 4.6 | 2.5 | 4.6 | 1.4 | 2.8 |
| | | | $n_{2\,Eck}$ | | 150 | | 72 | 88 | 152 | 180 | 74 | 101 |
| | | | $n_{2\,th}$ | | 150 | | 72 | 88 | 152 | 158 | 74 | 101 |
| 24.567 | 677 | 1.02 | $M_2$ | | 146 | 91 | | | | | | |
| | | | c | | 3.9 | 5.8 | | | | | | |
| | | | $n_{2\,Eck}$ | | 139 | 165 | | | | | | |
| | | | $n_{2\,th}$ | | 139 | 165 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 707$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 160 | 78 | 308 | 136 | 306 | 100 | | 208 | | 143 | $M_2$ | 4.73 | 527 | 8.800 |
| 2.5 | 4.6 | 1.6 | 3.3 | 1.3 | 3.7 | | 2.1 | | 2.6 | c | | | |
| 396 | 467 | 193 | 266 | 399 | 472 | | 283 | | 473 | $n_{2\,Eck}$ | | | |
| 277 | 318 | 193 | 266 | 206 | 278 | | 229 | | 229 | $n_{2\,th}$ | | | |
| 179 | 88 | 345 | 153 | 344 | 112 | | 233 | | 160 | $M_2$ | 3.90 | 549 | 9.856 |
| 2.3 | 4.3 | 1.5 | 3.0 | 1.2 | 3.4 | | 2.0 | | 2.4 | c | | | |
| 353 | 417 | 173 | 237 | 356 | 421 | | 253 | | 422 | $n_{2\,Eck}$ | | | |
| 255 | 292 | 172 | 237 | 189 | 248 | | 204 | | 204 | $n_{2\,th}$ | | | |
| 204 | 100 | 393 | 174 | 391 | 127 | | 265 | | 182 | $M_2$ | 3.78 | 598 | 11.200 |
| 2.2 | 4.1 | 1.5 | 2.9 | 1.2 | 3.3 | | 1.9 | | 2.3 | c | | | |
| 311 | 367 | 152 | 209 | 313 | 371 | | 222 | | 371 | $n_{2\,Eck}$ | | | |
| 222 | 254 | 152 | 209 | 163 | 219 | | 180 | | 180 | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 2.86 | 513 | 12.571 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 229 | 113 | 441 | 196 | 439 | 143 | | | | | $M_2$ | 2.86 | 601 | 12.571 |
| 2.0 | 3.7 | 1.3 | 2.6 | 1.0 | 2.9 | | | | | c | | | |
| 277 | 327 | 135 | 186 | 279 | 330 | | | | | $n_{2\,Eck}$ | | | |
| 226 | 247 | 135 | 186 | 161 | 195 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 2.79 | 583 | 14.286 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 261 | 128 | 502 | 223 | | 163 | | | | | $M_2$ | 2.79 | 642 | 14.286 |
| 1.8 | 3.5 | 1.2 | 2.5 | | 2.8 | | | | | c | | | |
| 244 | 288 | 119 | 164 | | 291 | | | | | $n_{2\,Eck}$ | | | |
| 192 | 218 | 119 | 164 | | 171 | | | | | $n_{2\,th}$ | | | |
| 281 | 138 | 541 | 240 | 538 | 176 | | | | | $M_2$ | 2.26 | 644 | 15.400 |
| 2.0 | 3.7 | 1.2 | 2.6 | 1.0 | 2.9 | | | | | c | | | |
| 226 | 267 | 110 | 152 | 228 | 270 | | | | | $n_{2\,Eck}$ | | | |
| 202 | 202 | 110 | 152 | 150 | 159 | | | | | $n_{2\,th}$ | | | |
| 320 | 157 | 616 | 273 | | 200 | | | | | $M_2$ | 2.21 | 680 | 17.500 |
| 1.8 | 3.4 | 1.1 | 2.4 | | 2.7 | | | | | c | | | |
| 199 | 235 | 97 | 134 | | 237 | | | | | $n_{2\,Eck}$ | | | |
| 171 | 178 | 97 | 134 | | 140 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 1.38 | 650 | 20.044 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| 367 | 181 | | | | | | | | | $M_2$ | 1.38 | 694 | 20.044 |
| 1.6 | 3.1 | | | | | | | | | c | | | |
| 174 | 205 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 155 | 155 | | | | | | | | | $n_{2\,th}$ | | | |
| 418 | 206 | | | | | | | | | $M_2$ | 1.35 | 682 | 22.778 |
| 1.4 | 2.6 | | | | | | | | | c | | | |
| 153 | 180 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 137 | 137 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 1.02 | 677 | 24.567 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

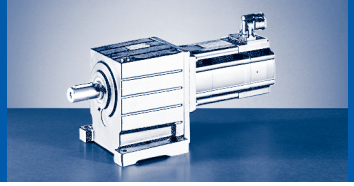
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 707$ Nm

| GST07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 24.567 | 706 | 1.02 | $M_2$ | | | | 282 | 154 | 254 | 124 | 510 | 253 |
| | | | c | | | | 2.5 | 4.4 | 2.4 | 4.5 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 67 | 81 | 141 | 167 | 68 | 94 |
| | | | $n_{2\,th}$ | | | | 67 | 81 | 141 | 146 | 68 | 94 |
| 27.917 | 691 | 1.01 | $M_2$ | | 166 | 104 | 321 | 176 | 289 | 142 | 581 | 289 |
| | | | c | | 3.5 | 5.2 | 2.1 | 3.8 | 2.0 | 3.8 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 122 | 145 | 59 | 72 | 124 | 147 | 60 | 82 |
| | | | $n_{2\,th}$ | | 122 | 145 | 59 | 72 | 124 | 129 | 60 | 82 |
| 32.267 | 698 | 0.66 | $M_2$ | | 193 | 121 | | | | | | |
| | | | c | | 3.1 | 4.6 | | | | | | |
| | | | $n_{2\,Eck}$ | | 106 | 126 | | | | | | |
| | | | $n_{2\,th}$ | | 106 | 126 | | | | | | |
| 32.267 | 706 | 0.66 | $M_2$ | | | | 372 | 205 | 335 | 165 | | |
| | | | c | | | | 1.9 | 3.4 | 1.8 | 3.4 | | |
| | | | $n_{2\,Eck}$ | | | | 51 | 62 | 107 | 127 | | |
| | | | $n_{2\,th}$ | | | | 51 | 62 | 107 | 111 | | |
| 36.667 | 702 | 0.65 | $M_2$ | | 220 | 138 | 424 | 234 | 382 | 188 | | |
| | | | c | | 2.7 | 4.0 | 1.6 | 3.0 | 1.6 | 3.0 | | |
| | | | $n_{2\,Eck}$ | | 93 | 111 | 45 | 55 | 94 | 112 | | |
| | | | $n_{2\,th}$ | | 93 | 110 | 45 | 55 | 94 | 98 | | |
| 39.160 | 491 | 0.49 | $M_2$ | 73 | | | | | | | | |
| | | | c | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 101 | | | | | | | | |
| | | | $n_{2\,th}$ | 101 | | | | | | | | |
| 39.160 | 706 | 0.49 | $M_2$ | | 236 | 148 | 453 | 250 | 408 | 201 | | |
| | | | c | | 2.6 | 3.8 | 1.6 | 2.8 | 1.5 | 2.8 | | |
| | | | $n_{2\,Eck}$ | | 87 | 103 | 42 | 51 | 88 | 105 | | |
| | | | $n_{2\,th}$ | | 87 | 103 | 42 | 51 | 88 | 92 | | |
| 44.500 | 558 | 0.48 | $M_2$ | 82 | | | | | | | | |
| | | | c | 5.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 89 | | | | | | | | |
| | | | $n_{2\,th}$ | 89 | | | | | | | | |
| 44.500 | 707 | 0.48 | $M_2$ | | 268 | 168 | 516 | 285 | 464 | 229 | | |
| | | | c | | 2.5 | 3.7 | 1.4 | 2.4 | 1.5 | 2.7 | | |
| | | | $n_{2\,Eck}$ | | 77 | 91 | 37 | 45 | 78 | 92 | | |
| | | | $n_{2\,th}$ | | 77 | 91 | 37 | 45 | 78 | 81 | | |
| 49.500 | 493 | 0.33 | $M_2$ | 92 | | | | | | | | |
| | | | c | 4.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 80 | | | | | | | | |
| | | | $n_{2\,th}$ | 80 | | | | | | | | |
| 49.500 | 600 | 0.33 | $M_2$ | | 300 | 188 | | | | | | |
| | | | c | | 1.9 | 2.8 | | | | | | |
| | | | $n_{2\,Eck}$ | | 69 | 82 | | | | | | |
| | | | $n_{2\,th}$ | | 69 | 82 | | | | | | |
| 56.250 | 560 | 0.33 | $M_2$ | 105 | | | | | | | | |
| | | | c | 4.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 70 | | | | | | | | |
| | | | $n_{2\,th}$ | 70 | | | | | | | | |
| 56.250 | 688 | 0.33 | $M_2$ | | 341 | 214 | | | | | | |
| | | | c | | 1.9 | 2.9 | | | | | | |
| | | | $n_{2\,Eck}$ | | 61 | 72 | | | | | | |
| | | | $n_{2\,th}$ | | 61 | 72 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 707$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 451 | 223 | | | | | | | | | $M_2$ | 1.02 | 706 | 24.567 |
| 1.3 | 2.5 | | | | | | | | | c | | | |
| 142 | 167 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 127 | 127 | | | | | | | | | $n_{2\,th}$ | | | |
| 514 | 254 | | | | | | | | | $M_2$ | 1.01 | 691 | 27.917 |
| 1.2 | 2.2 | | | | | | | | | c | | | |
| 125 | 147 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 111 | 111 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.66 | 698 | 32.267 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.66 | 706 | 32.267 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.65 | 702 | 36.667 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.49 | 491 | 39.160 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.49 | 706 | 39.160 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.48 | 558 | 44.500 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.48 | 707 | 44.500 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.33 | 493 | 49.500 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.33 | 600 | 49.500 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.33 | 560 | 56.250 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.33 | 688 | 56.250 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

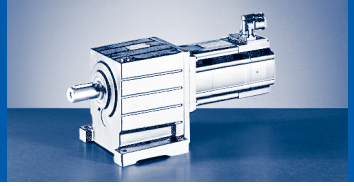
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 710$ Nm

| GST07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 39.200 | 692 | 0.97 | $M_2$ | | 232 | 146 | 447 | 246 | 403 | 199 |
| | | | c | | 2.5 | 3.8 | 1.5 | 2.8 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 87 | 103 | 42 | 51 | 88 | 105 |
| | | | $n_{2\,th}$ | | 87 | 103 | 42 | 51 | 88 | 92 |
| 44.000 | 706 | 0.53 | $M_2$ | | 261 | 163 | 502 | 277 | 452 | 223 |
| | | | c | | 2.6 | 3.8 | 1.4 | 2.5 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 78 | 92 | 37 | 46 | 79 | 93 |
| | | | $n_{2\,th}$ | | 78 | 92 | 37 | 45 | 79 | 82 |
| 51.022 | 700 | 0.84 | $M_2$ | | 303 | 190 | 584 | 323 | 525 | 259 |
| | | | c | | 2.2 | 3.3 | 1.2 | 2.1 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 67 | 79 | 32 | 39 | 68 | 80 |
| | | | $n_{2\,th}$ | | 67 | 79 | 32 | 39 | 68 | 70 |
| 53.900 | 706 | 0.48 | $M_2$ | | 321 | 202 | 617 | 341 | 555 | 274 |
| | | | c | | 2.1 | 3.1 | 1.1 | 2.1 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 63 | 75 | 30 | 37 | 64 | 76 |
| | | | $n_{2\,th}$ | | 63 | 75 | 30 | 37 | 64 | 67 |
| 65.079 | 707 | 0.31 | $M_2$ | 119 | 389 | 245 | | | | |
| | | | c | 5.2 | 1.7 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | 61 | 52 | 62 | | | | |
| | | | $n_{2\,th}$ | 61 | 52 | 62 | | | | |
| 70.156 | 706 | 0.43 | $M_2$ | 129 | 420 | 264 | | 447 | | 359 |
| | | | c | 4.8 | 1.6 | 2.4 | | 1.6 | | 1.8 |
| | | | $n_{2\,Eck}$ | 56 | 49 | 58 | | 29 | | 58 |
| | | | $n_{2\,th}$ | 56 | 49 | 58 | | 29 | | 51 |
| 79.762 | 710 | 0.54 | $M_2$ | 147 | 478 | 301 | | 509 | | 409 |
| | | | c | 4.3 | 1.4 | 2.1 | | 1.4 | | 1.6 |
| | | | $n_{2\,Eck}$ | 50 | 43 | 51 | | 25 | | 51 |
| | | | $n_{2\,th}$ | 50 | 43 | 51 | | 25 | | 45 |
| 85.983 | 706 | 0.40 | $M_2$ | 159 | 516 | 325 | | 549 | | 442 |
| | | | c | 3.9 | 1.3 | 1.9 | | 1.3 | | 1.4 |
| | | | $n_{2\,Eck}$ | 46 | 40 | 47 | | 23 | | 48 |
| | | | $n_{2\,th}$ | 46 | 40 | 47 | | 23 | | 42 |
| 97.708 | 710 | 0.40 | $M_2$ | 182 | 587 | 371 | | 625 | | 503 |
| | | | c | 3.5 | 1.2 | 1.7 | | 1.1 | | 1.3 |
| | | | $n_{2\,Eck}$ | 40 | 35 | 42 | | 21 | | 42 |
| | | | $n_{2\,th}$ | 40 | 35 | 41 | | 20 | | 37 |
| 111.915 | 706 | 0.24 | $M_2$ | 209 | 674 | 426 | | | | |
| | | | c | 3.0 | 1.0 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 35 | 31 | 36 | | | | |
| | | | $n_{2\,th}$ | 35 | 30 | 36 | | | | |
| 127.176 | 710 | 0.24 | $M_2$ | 239 | | 485 | | | | |
| | | | c | 2.7 | | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 31 | | 32 | | | | |
| | | | $n_{2\,th}$ | 31 | | 32 | | | | |
| 139.211 | 706 | 0.17 | $M_2$ | 262 | | 531 | | | | |
| | | | c | 2.4 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 28 | | 29 | | | | |
| | | | $n_{2\,th}$ | 28 | | 29 | | | | |
| 158.194 | 710 | 0.17 | $M_2$ | 299 | | 604 | | | | |
| | | | c | 2.1 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 25 | | 26 | | | | |
| | | | $n_{2\,th}$ | 25 | | 26 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 710$ Nm

| GST07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 180.156 | 706 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 341<br>1.9<br>22<br>22 | | | | | | |
| 204.722 | 710 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 389<br>1.7<br>19<br>19 | | | | | | |
| 236.622 | 706 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 450<br>1.4<br>17<br>17 | | | | | | |
| 248.458 | 710 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 473<br>1.4<br>16<br>16 | | | | | | |
| 268.889 | 710 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 513<br>1.3<br>15<br>15 | | | | | | |
| 326.333 | 710 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 623<br>1.0<br>12<br>12 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

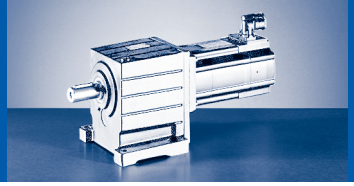
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 465$ Nm

| GST09-1A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 1.560 | 277 | 22.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 2.048 | 239 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 41<br>5.3<br>821<br>820 | | 37<br>4.7<br>1700<br>1109 | |
| 2.048 | 338 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 2.333 | 245 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 48<br>4.8<br>720<br>720 | | 42<br>4.2<br>1491<br>1042 | |
| 2.333 | 370 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 2.810 | 221 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 28<br>5.6<br>1230<br>1035 | | | | | |
| 2.810 | 259 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 58<br>4.2<br>598<br>598 | | 51<br>3.7<br>1239<br>952 | |
| 2.810 | 418 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 3.444 | 272 | 7.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 71<br>3.6<br>488<br>488 | | 63<br>3.2<br>1010<br>818 | |
| 3.444 | 443 | 7.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 4.667 | 247 | 4.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 53<br>4.3<br>350<br>350 | | 48<br>3.8<br>740<br>740 | | | | | |
| 4.667 | 289 | 4.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 97<br>2.8<br>360<br>360 | 48<br>5.0<br>493<br>493 | 86<br>2.5<br>746<br>667 | 42<br>4.7<br>881<br>667 |
| 4.667 | 379 | 4.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 465$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-1A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 54<br>4.8<br>1090<br>1090 | | 54<br>3.8<br>2250<br>1219 | | 93<br>2.8<br>1096<br>1096 | | 83<br>2.5<br>2256<br>1101 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 22.20 | 277 | 1.560 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.60 | 239 | 2.048 |
| 71<br>4.4<br>830<br>830 | | 71<br>3.5<br>1714<br>1041 | | 122<br>2.6<br>835<br>835 | 47<br>5.8<br>1216<br>983 | 109<br>2.3<br>1719<br>943 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.60 | 338 | 2.048 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 245 | 2.333 |
| 81<br>4.3<br>729<br>729 | | 81<br>3.4<br>1504<br>991 | | 139<br>2.5<br>733<br>733 | 54<br>5.5<br>1067<br>863 | 125<br>2.2<br>1509<br>863 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 370 | 2.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.58 | 221 | 2.810 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.58 | 259 | 2.810 |
| 97<br>4.0<br>605<br>605 | | 97<br>3.2<br>1249<br>872 | | 168<br>2.4<br>609<br>609 | 65<br>5.2<br>886<br>717 | 151<br>2.1<br>1253<br>717 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.58 | 418 | 2.810 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.30 | 272 | 3.444 |
| 120<br>3.5<br>494<br>494 | | 120<br>2.7<br>1019<br>711 | | 206<br>2.0<br>497<br>496 | 81<br>4.5<br>723<br>585 | 185<br>1.8<br>1022<br>585 | 55<br>5.5<br>1208<br>585 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.30 | 443 | 3.444 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.60 | 247 | 4.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.60 | 289 | 4.667 |
| 165<br>2.2<br>364<br>364 | 72<br>4.4<br>501<br>501 | 164<br>1.7<br>752<br>525 | 53<br>4.9<br>889<br>525 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.60 | 379 | 4.667 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

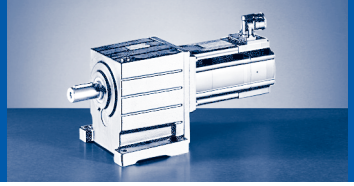
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 465$ Nm

| GST09-1A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 5.667 | 256 | 3.51 | $M_2$ | 65 | | 59 | | | | | |
| | | | c | 3.7 | | 3.2 | | | | | |
| | | | $n_{2\,Eck}$ | 289 | | 610 | | | | | |
| | | | $n_{2\,th}$ | 289 | | 610 | | | | | |
| 5.667 | 299 | 3.51 | $M_2$ | | | | | 118 | 58 | 105 | 51 |
| | | | c | | | | | 2.4 | 4.3 | 2.1 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | | 297 | 406 | 614 | 725 |
| | | | $n_{2\,th}$ | | | | | 296 | 406 | 549 | 549 |
| 5.667 | 465 | 3.51 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 7.333 | 265 | 2.26 | $M_2$ | 85 | 46 | 77 | 37 | | | | |
| | | | c | 3.0 | 5.0 | 2.6 | 4.9 | | | | |
| | | | $n_{2\,Eck}$ | 223 | 273 | 471 | 559 | | | | |
| | | | $n_{2\,th}$ | 223 | 273 | 471 | 490 | | | | |
| 7.333 | 310 | 2.26 | $M_2$ | | | | | 154 | 76 | 136 | 67 |
| | | | c | | | | | 1.9 | 3.4 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | 229 | 314 | 475 | 561 |
| | | | $n_{2\,th}$ | | | | | 229 | 314 | 424 | 424 |
| 8.900 | 269 | 1.66 | $M_2$ | 104 | 57 | 94 | 46 | | | | |
| | | | c | 2.5 | 4.2 | 2.2 | 4.1 | | | | |
| | | | $n_{2\,Eck}$ | 184 | 225 | 388 | 461 | | | | |
| | | | $n_{2\,th}$ | 184 | 225 | 388 | 403 | | | | |
| 8.900 | 315 | 1.66 | $M_2$ | | | | | 187 | 93 | 166 | 82 |
| | | | c | | | | | 1.6 | 2.9 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | 189 | 258 | 391 | 462 |
| | | | $n_{2\,th}$ | | | | | 189 | 258 | 350 | 350 |
| 11.250 | 273 | 1.11 | $M_2$ | 132 | 72 | 119 | 58 | | | | |
| | | | c | 2.0 | 3.3 | 1.7 | 3.3 | | | | |
| | | | $n_{2\,Eck}$ | 145 | 178 | 307 | 364 | | | | |
| | | | $n_{2\,th}$ | 145 | 178 | 307 | 319 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 465$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-1A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.51 | 256 | 5.667 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.51 | 299 | 5.667 |
| 200<br>2.2<br>300<br>300 | 88<br>4.4<br>413<br>413 | 199<br>1.7<br>619<br>432 | 64<br>5.0<br>732<br>432 | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.51 | 465 | 5.667 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.26 | 265 | 7.333 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.26 | 310 | 7.333 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.66 | 269 | 8.900 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.66 | 315 | 8.900 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.11 | 273 | 11.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

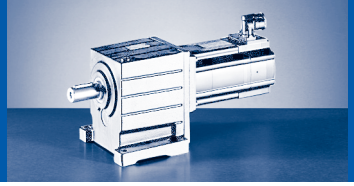
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1582$ Nm

| GST09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 4.056 | 878 | 27.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 4.457 | 931 | 25.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.324 | 613 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 106<br>5.3<br>316<br>316 | | 94<br>4.7<br>654<br>426 | |
| 5.324 | 993 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.850 | 674 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 117<br>5.3<br>287<br>287 | | 104<br>4.7<br>595<br>388 | |
| 5.850 | 1020 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.667 | 690 | 14.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 134<br>4.8<br>252<br>252 | | 119<br>4.2<br>522<br>365 | |
| 6.667 | 1065 | 14.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 7.305 | 566 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 73<br>5.6<br>473<br>398 | | | | | |
| 7.305 | 663 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 147<br>4.2<br>230<br>230 | | 131<br>3.7<br>476<br>366 | |
| 7.305 | 1103 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 8.027 | 622 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 80<br>5.6<br>430<br>362 | | | | | |
| 8.027 | 728 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 162<br>4.2<br>209<br>209 | | 144<br>3.7<br>434<br>333 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1582$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 136<br>5.9<br>419<br>419 | | 136<br>4.7<br>865<br>492 | | 235<br>3.5<br>422<br>422 | | 212<br>3.1<br>868<br>446 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.00 | 878 | 4.056 |
| 149<br>5.7<br>381<br>381 | | 150<br>4.5<br>788<br>444 | | 259<br>3.4<br>384<br>384 | | 233<br>3.0<br>790<br>403 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.90 | 931 | 4.457 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.10 | 613 | 5.324 |
| 180<br>5.1<br>319<br>319 | | 180<br>4.0<br>659<br>412 | | 311<br>3.0<br>321<br>321 | | 279<br>2.6<br>661<br>375 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.10 | 993 | 5.324 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 674 | 5.850 |
| 198<br>4.8<br>291<br>291 | | 199<br>3.8<br>600<br>370 | | 342<br>2.8<br>292<br>292 | | 307<br>2.5<br>602<br>336 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 1020 | 5.850 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.20 | 690 | 6.667 |
| 227<br>4.4<br>255<br>255 | | 227<br>3.5<br>527<br>349 | | 391<br>2.6<br>257<br>257 | 151<br>5.7<br>374<br>302 | 351<br>2.3<br>528<br>302 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.20 | 1065 | 6.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 566 | 7.305 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 663 | 7.305 |
| 249<br>4.1<br>233<br>233 | | 249<br>3.3<br>481<br>335 | | 429<br>2.4<br>234<br>234 | 167<br>5.4<br>341<br>276 | 385<br>2.1<br>482<br>276 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 1103 | 7.305 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.00 | 622 | 8.027 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.00 | 728 | 8.027 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

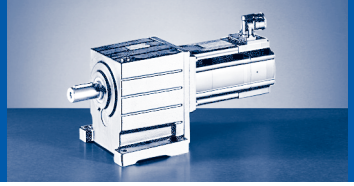
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1582$ Nm

| GST09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 8.027 | 1133 | 11.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.010 | 1037 | 15.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 180<br>5.3<br>187<br>186 | | 160<br>4.7<br>386<br>252 | |
| 9.010 | 1128 | 15.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 10.267 | 1063 | 12.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 206<br>4.8<br>164<br>164 | | 183<br>4.2<br>339<br>237 | |
| 10.267 | 1178 | 12.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 11.667 | 1206 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 234<br>4.8<br>144<br>144 | | 208<br>4.2<br>298<br>208 | |
| 12.362 | 958 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 123<br>5.6<br>280<br>235 | | | | | |
| 12.362 | 1121 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 249<br>4.2<br>136<br>136 | | 222<br>3.7<br>282<br>216 | |
| 12.362 | 1253 | 9.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 14.048 | 1088 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 140<br>5.6<br>246<br>207 | | | | | |
| 14.048 | 1274 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 283<br>4.2<br>120<br>120 | | 252<br>3.7<br>248<br>190 | |
| 14.048 | 1283 | 9.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 15.156 | 1179 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 307<br>3.7<br>111<br>111 | | 272<br>3.6<br>230<br>191 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1582$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 274<br>3.8<br>212<br>212 | | 274<br>3.0<br>437<br>305 | | 472<br>2.3<br>213<br>213 | 184<br>5.0<br>310<br>251 | 424<br>2.0<br>439<br>251 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.00 | 1133 | 8.027 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.20 | 1037 | 9.010 |
| 309<br>3.4<br>189<br>189 | | 309<br>2.7<br>390<br>223 | | 531<br>2.0<br>190<br>190 | 207<br>4.4<br>276<br>223 | 477<br>1.8<br>391<br>194 | 142<br>5.4<br>462<br>223 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.20 | 1128 | 9.010 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.40 | 1063 | 10.267 |
| 354<br>3.1<br>166<br>166 | | 353<br>2.5<br>342<br>210 | | 606<br>1.8<br>167<br>167 | 237<br>4.1<br>243<br>196 | 544<br>1.6<br>343<br>177 | 162<br>5.0<br>405<br>196 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.40 | 1178 | 10.267 |
| 403<br>2.8<br>146<br>146 | 176<br>5.6<br>201<br>201 | 402<br>2.2<br>301<br>180 | | 690<br>1.7<br>147<br>147 | 271<br>3.7<br>213<br>173 | 620<br>1.5<br>302<br>147 | 186<br>4.5<br>357<br>173 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.10 | 1206 | 11.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.79 | 958 | 12.362 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.79 | 1121 | 12.362 |
| 427<br>2.8<br>138<br>138 | 186<br>5.5<br>189<br>189 | 427<br>2.2<br>284<br>192 | | 732<br>1.6<br>138<br>138 | 287<br>3.6<br>201<br>163 | 657<br>1.4<br>285<br>155 | 197<br>4.4<br>337<br>163 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.79 | 1253 | 12.362 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.53 | 1088 | 14.048 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.53 | 1274 | 14.048 |
| 487<br>2.5<br>121<br>121 | 213<br>5.0<br>167<br>167 | 486<br>2.0<br>250<br>165 | 156<br>5.6<br>295<br>174 | 833<br>1.5<br>122<br>122 | 328<br>3.2<br>177<br>143 | 747<br>1.3<br>251<br>129 | 225<br>3.9<br>296<br>143 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.53 | 1283 | 14.048 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.65 | 1179 | 15.156 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

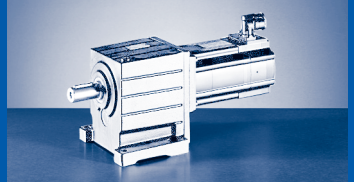
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1582$ Nm

| GST09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 15.156 | 1340 | 7.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 17.222 | 1340 | 7.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 349<br>3.7<br>98<br>98 | | 309<br>3.6<br>202<br>168 | |
| 17.222 | 1373 | 7.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 20.533 | 1068 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 231<br>4.5<br>80<br>80 | | 208<br>4.3<br>168<br>168 | | | | | |
| 20.533 | 1251 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 420<br>2.9<br>82<br>82 | 205<br>5.7<br>112<br>112 | 371<br>2.8<br>170<br>152 | 181<br>5.4<br>200<br>152 |
| 20.533 | 1484 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 23.333 | 1214 | 4.41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 262<br>4.5<br>70<br>70 | | 236<br>4.3<br>148<br>148 | | | | | |
| 23.333 | 1421 | 4.41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 477<br>2.9<br>72<br>72 | 233<br>5.7<br>99<br>99 | 422<br>2.8<br>149<br>133 | 205<br>5.4<br>176<br>133 |
| 23.333 | 1508 | 4.41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 24.933 | 1107 | 3.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 282<br>3.8<br>66<br>66 | | 254<br>3.7<br>139<br>139 | | | | | |
| 24.933 | 1296 | 3.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 512<br>2.5<br>67<br>67 | 251<br>4.9<br>92<br>92 | 453<br>2.4<br>140<br>125 | 221<br>4.6<br>165<br>125 |
| 24.933 | 1582 | 3.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 28.333 | 1258 | 3.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 320<br>3.8<br>58<br>58 | | 289<br>3.7<br>122<br>122 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1582$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 525<br>2.5<br>112<br>112 | 229<br>5.5<br>154<br>154 | 523<br>2.2<br>232<br>162 | | 898<br>1.5<br>113<br>113 | 352<br>3.6<br>164<br>133 | 805<br>1.4<br>232<br>133 | 241<br>4.3<br>275<br>133 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.65 | 1340 | 15.156 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.49 | 1340 | 17.222 |
| 599<br>2.3<br>99<br>99 | 261<br>4.9<br>136<br>136 | 596<br>2.0<br>204<br>142 | 191<br>5.5<br>241<br>142 | 1022<br>1.3<br>99<br>99 | 402<br>3.2<br>145<br>117 | 916<br>1.3<br>204<br>117 | 276<br>3.9<br>242<br>117 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.49 | 1373 | 17.222 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 1068 | 20.533 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 1251 | 20.533 |
| 715<br>2.1<br>83<br>83 | 313<br>4.5<br>114<br>114 | 711<br>1.8<br>171<br>119 | 229<br>5.0<br>202<br>119 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 1484 | 20.533 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.41 | 1214 | 23.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.41 | 1421 | 23.333 |
| 815<br>1.8<br>73<br>73 | 358<br>4.0<br>100<br>100 | 810<br>1.6<br>150<br>105 | 262<br>4.5<br>178<br>105 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.41 | 1508 | 23.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.38 | 1107 | 24.933 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.38 | 1296 | 24.933 |
| 871<br>1.8<br>68<br>68 | 382<br>3.9<br>94<br>94 | 866<br>1.6<br>141<br>98 | 280<br>4.4<br>166<br>98 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.38 | 1582 | 24.933 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.32 | 1258 | 28.333 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

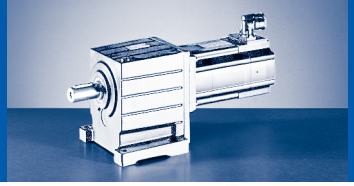
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1582$ Nm

| GST09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 28.333 | 1472 | 3.32 | $M_2$ | | | | | 582 | 285 | 515 | 252 |
| | | | c | | | | | 2.5 | 4.9 | 2.4 | 4.6 |
| | | | $n_{2\,Eck}$ | | | | | 59 | 81 | 123 | 145 |
| | | | $n_{2\,th}$ | | | | | 59 | 81 | 110 | 110 |
| 28.333 | 1519 | 3.32 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 32.267 | 1147 | 2.25 | $M_2$ | 368 | 200 | 331 | 161 | | | | |
| | | | c | 3.1 | 5.5 | 2.9 | 5.5 | | | | |
| | | | $n_{2\,Eck}$ | 51 | 62 | 107 | 127 | | | | |
| | | | $n_{2\,th}$ | 51 | 62 | 107 | 111 | | | | |
| 32.267 | 1343 | 2.25 | $M_2$ | | | | | 666 | 328 | 589 | 289 |
| | | | c | | | | | 2.0 | 3.9 | 1.9 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | 52 | 71 | 108 | 127 |
| | | | $n_{2\,th}$ | | | | | 52 | 71 | 96 | 96 |
| 36.667 | 1304 | 2.21 | $M_2$ | 418 | 227 | 377 | 183 | | | | |
| | | | c | 3.1 | 5.5 | 2.9 | 5.5 | | | | |
| | | | $n_{2\,Eck}$ | 45 | 55 | 94 | 112 | | | | |
| | | | $n_{2\,th}$ | 45 | 55 | 94 | 98 | | | | |
| 36.667 | 1526 | 2.21 | $M_2$ | | | | | 757 | 373 | 669 | 329 |
| | | | c | | | | | 2.0 | 3.9 | 1.9 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | 46 | 63 | 95 | 112 |
| | | | $n_{2\,th}$ | | | | | 46 | 63 | 85 | 85 |
| 39.160 | 1166 | 1.64 | $M_2$ | 449 | 245 | 404 | 198 | | | | |
| | | | c | 2.6 | 4.6 | 2.4 | 4.6 | | | | |
| | | | $n_{2\,Eck}$ | 42 | 51 | 88 | 105 | | | | |
| | | | $n_{2\,th}$ | 42 | 51 | 88 | 92 | | | | |
| 39.160 | 1364 | 1.64 | $M_2$ | | | | | 811 | 401 | 717 | 353 |
| | | | c | | | | | 1.7 | 3.3 | 1.6 | 3.1 |
| | | | $n_{2\,Eck}$ | | | | | 43 | 59 | 89 | 105 |
| | | | $n_{2\,th}$ | | | | | 43 | 59 | 79 | 79 |
| 44.500 | 1324 | 1.62 | $M_2$ | 510 | 279 | 458 | 223 | | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | 37 | 45 | 78 | 92 | | | | |
| | | | $n_{2\,th}$ | 37 | 45 | 78 | 81 | | | | |
| 44.500 | 1546 | 1.62 | $M_2$ | | | | | 922 | 455 | 814 | 400 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 38 | 52 | 78 | 92 |
| | | | $n_{2\,th}$ | | | | | 38 | 52 | 70 | 70 |
| 49.500 | 1184 | 1.12 | $M_2$ | 570 | 313 | 512 | 251 | | | | |
| | | | c | 2.1 | 3.7 | 2.2 | 4.1 | | | | |
| | | | $n_{2\,Eck}$ | 33 | 40 | 70 | 83 | | | | |
| | | | $n_{2\,th}$ | 33 | 40 | 70 | 73 | | | | |
| 56.250 | 1345 | 1.10 | $M_2$ | 648 | 356 | 582 | 285 | | | | |
| | | | c | 2.1 | 3.7 | 2.2 | 4.1 | | | | |
| | | | $n_{2\,Eck}$ | 29 | 36 | 61 | 73 | | | | |
| | | | $n_{2\,th}$ | 29 | 36 | 61 | 64 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1582$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.32 | 1472 | 28.333 |
| 993<br>1.5<br>60<br>60 | 437<br>3.3<br>83<br>83 | 986<br>1.3<br>124<br>86 | 321<br>3.7<br>147<br>86 | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.32 | 1519 | 28.333 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.25 | 1147 | 32.267 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.25 | 1343 | 32.267 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.21 | 1304 | 36.667 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.21 | 1526 | 36.667 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.64 | 1166 | 39.160 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.64 | 1364 | 39.160 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.62 | 1324 | 44.500 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.62 | 1546 | 44.500 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.12 | 1184 | 49.500 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.10 | 1345 | 56.250 |

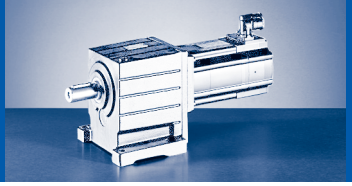
M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1623$ Nm

| GST09-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 40.136 | 1344 | 2.14 | $M_2$ | | 232 | | 451 | 246 | 406 | 198 | 819 | 405 | 724 | 357 |
| | | | c | | 4.8 | | 2.9 | 5.2 | 2.8 | 5.3 | 1.6 | 3.2 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 85 | | 41 | 50 | 86 | 102 | 42 | 57 | 87 | 102 |
| | | | $n_{2\,th}$ | | 85 | | 41 | 50 | 86 | 89 | 42 | 57 | 78 | 78 |
| 43.267 | 1290 | 1.55 | $M_2$ | | 250 | | 488 | 266 | 438 | 213 | 885 | 438 | 781 | 385 |
| | | | c | | 4.7 | | 2.6 | 4.7 | 2.8 | 5.2 | 1.5 | 2.9 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 79 | | 38 | 46 | 80 | 95 | 39 | 53 | 80 | 95 |
| | | | $n_{2\,th}$ | | 79 | | 38 | 46 | 80 | 83 | 39 | 53 | 72 | 72 |
| 49.167 | 1466 | 1.53 | $M_2$ | | 284 | | 554 | 303 | 498 | 243 | 1005 | 497 | 888 | 437 |
| | | | c | | 4.7 | | 2.6 | 4.7 | 2.8 | 5.2 | 1.5 | 2.9 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 69 | | 33 | 41 | 70 | 83 | 34 | 47 | 71 | 84 |
| | | | $n_{2\,th}$ | | 69 | | 33 | 41 | 70 | 73 | 34 | 47 | 63 | 63 |
| 53.044 | 1379 | 1.38 | $M_2$ | | 309 | | 600 | 329 | 539 | 264 | 1087 | 539 | 960 | 474 |
| | | | c | | 4.1 | | 2.3 | 4.1 | 2.4 | 4.5 | 1.3 | 2.5 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | 64 | | 31 | 38 | 65 | 77 | 32 | 43 | 66 | 78 |
| | | | $n_{2\,th}$ | | 64 | | 31 | 38 | 65 | 68 | 32 | 43 | 59 | 59 |
| 60.278 | 1565 | 1.37 | $M_2$ | | 351 | | 682 | 374 | 613 | 300 | 1235 | 612 | 1090 | 538 |
| | | | c | | 4.1 | | 2.3 | 4.1 | 2.4 | 4.5 | 1.3 | 2.5 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | 57 | | 27 | 33 | 57 | 68 | 28 | 38 | 58 | 68 |
| | | | $n_{2\,th}$ | | 57 | | 27 | 33 | 57 | 60 | 28 | 38 | 52 | 52 |
| 71.867 | 1477 | 1.17 | $M_2$ | | 422 | 264 | 817 | 450 | 735 | 361 | 1477 | 734 | 1304 | 645 |
| | | | c | | 3.3 | 4.9 | 1.8 | 3.2 | 1.9 | 3.6 | 1.0 | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | 48 | 56 | 23 | 28 | 48 | 57 | 23 | 32 | 48 | 57 |
| | | | $n_{2\,th}$ | | 47 | 56 | 23 | 28 | 48 | 50 | 23 | 32 | 43 | 43 |
| 81.667 | 1584 | 1.16 | $M_2$ | | 481 | 300 | 930 | 512 | 836 | 411 | | 835 | 1483 | 734 |
| | | | c | | 3.1 | 4.6 | 1.7 | 3.0 | 1.8 | 3.4 | | 1.9 | 1.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | 42 | 50 | 20 | 25 | 42 | 50 | | 28 | 43 | 50 |
| | | | $n_{2\,th}$ | | 42 | 50 | 20 | 24 | 42 | 44 | | 28 | 38 | 38 |
| 93.541 | 1613 | 0.71 | $M_2$ | | 553 | 346 | 1067 | 588 | 959 | 473 | | | | |
| | | | c | | 2.7 | 4.1 | 1.5 | 2.7 | 1.6 | 3.0 | | | | |
| | | | $n_{2\,Eck}$ | | 37 | 43 | 18 | 21 | 37 | 44 | | | | |
| | | | $n_{2\,th}$ | | 36 | 43 | 17 | 21 | 37 | 38 | | | | |
| 99.167 | 1596 | 1.07 | $M_2$ | | 587 | 368 | 1132 | 625 | 1018 | 502 | | 1018 | | 895 |
| | | | c | | 2.6 | 3.8 | 1.4 | 2.5 | 1.5 | 2.8 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 34 | 41 | 17 | 20 | 35 | 41 | | 23 | | 42 |
| | | | $n_{2\,th}$ | | 34 | 41 | 16 | 20 | 35 | 36 | | 23 | | 31 |
| 113.585 | 1613 | 0.65 | $M_2$ | | 675 | 423 | 1299 | 718 | 1169 | 577 | | | | |
| | | | c | | 2.3 | 3.4 | 1.2 | 2.2 | 1.3 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | | 30 | 36 | 14 | 18 | 30 | 36 | | | | |
| | | | $n_{2\,th}$ | | 30 | 36 | 14 | 18 | 30 | 32 | | | | |
| 129.074 | 1612 | 0.65 | $M_2$ | 234 | 769 | 483 | 1479 | 818 | 1330 | 658 | | | | |
| | | | c | 6.0 | 2.0 | 3.0 | 1.1 | 2.0 | 1.2 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 31 | 26 | 31 | 13 | 16 | 27 | 32 | | | | |
| | | | $n_{2\,th}$ | 31 | 26 | 31 | 13 | 15 | 27 | 28 | | | | |
| 141.289 | 1613 | 0.46 | $M_2$ | 257 | 843 | 530 | | 897 | 1457 | 722 | | | | |
| | | | c | 5.5 | 1.8 | 2.7 | | 1.8 | 1.1 | 2.0 | | | | |
| | | | $n_{2\,Eck}$ | 28 | 24 | 29 | | 14 | 25 | 29 | | | | |
| | | | $n_{2\,th}$ | 28 | 24 | 29 | | 14 | 24 | 25 | | | | |
| 160.556 | 1623 | 0.46 | $M_2$ | 295 | 961 | 605 | | 1022 | | 822 | | | | |
| | | | c | 4.8 | 1.6 | 2.4 | | 1.6 | | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 25 | 21 | 25 | | 13 | | 26 | | | | |
| | | | $n_{2\,th}$ | 25 | 21 | 25 | | 12 | | 22 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]
P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1623$ Nm

| GST09-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 182.844 | 1613 | 0.30 | $M_2$ | 338 | 1096 | 691 | | | | | | | | |
| | | | c | 4.2 | 1.4 | 2.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 22 | 19 | 22 | | | | | | | | |
| | | | $n_{2\,th}$ | 22 | 19 | 22 | | | | | | | | |
| 207.778 | 1623 | 0.30 | $M_2$ | 386 | 1248 | 787 | | | | | | | | |
| | | | c | 3.7 | 1.2 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 19 | 16 | 20 | | | | | | | | |
| | | | $n_{2\,th}$ | 19 | 16 | 19 | | | | | | | | |
| 236.622 | 1613 | 0.28 | $M_2$ | 442 | 1423 | 899 | | | | | | | | |
| | | | c | 3.3 | 1.1 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 17 | 14 | 17 | | | | | | | | |
| | | | $n_{2\,th}$ | 17 | 14 | 17 | | | | | | | | |
| 252.167 | 1623 | 0.21 | $M_2$ | 472 | 1518 | 959 | | | | | | | | |
| | | | c | 3.1 | 1.0 | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 16 | 14 | 16 | | | | | | | | |
| | | | $n_{2\,th}$ | 16 | 14 | 16 | | | | | | | | |
| 268.889 | 1623 | 0.28 | $M_2$ | 504 | | 1023 | | | | | | | | |
| | | | c | 2.9 | | 1.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 15 | | 15 | | | | | | | | |
| | | | $n_{2\,th}$ | 15 | | 15 | | | | | | | | |
| 326.333 | 1623 | 0.20 | $M_2$ | 615 | | 1245 | | | | | | | | |
| | | | c | 2.4 | | 1.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | | 12 | | | | | | | | |
| | | | $n_{2\,th}$ | 12 | | 12 | | | | | | | | |
| 363.000 | 1613 | 0.26 | $M_2$ | 686 | | | | | | | | | | |
| | | | c | 2.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 11 | | | | | | | | | | |
| 412.500 | 1623 | 0.18 | $M_2$ | 781 | | | | | | | | | | |
| | | | c | 1.9 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 10 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

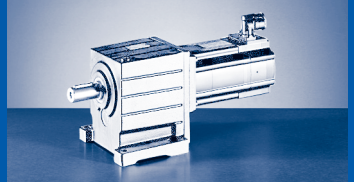
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2933$ Nm

| GST11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 4.056 | 1490 | 82.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 4.457 | 1606 | 79.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.324 | 1594 | 55.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.850 | 1772 | 53.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.400 | 1549 | 45.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.400 | 1801 | 45.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.864 | 2065 | 67.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 7.800 | 2114 | 65.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.010 | 2259 | 46.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.856 | 2325 | 40.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 11.200 | 2380 | 39.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 12.571 | 1414 | 29.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 251<br>5.2<br>134<br>134 | | 223<br>4.6<br>277<br>180 | |
| 12.571 | 2520 | 29.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2933$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | 229<br>5.9<br>422<br>422 | | 207<br>5.2<br>868<br>421 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 82.20 | 1490 | 4.056 |
| | | | | 252<br>5.8<br>384<br>384 | | 228<br>5.1<br>790<br>382 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 79.00 | 1606 | 4.457 |
| | | | | 305<br>4.8<br>321<br>321 | | 275<br>4.2<br>661<br>356 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 55.40 | 1594 | 5.324 |
| | | | | 335<br>4.9<br>292<br>292 | | 302<br>4.3<br>602<br>325 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 53.50 | 1772 | 5.850 |
| | | 214<br>5.2<br>548<br>320 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 45.70 | 1549 | 6.400 |
| | | | | 367<br>4.5<br>267<br>267 | | 331<br>4.0<br>550<br>302 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 45.70 | 1801 | 6.400 |
| | | | | 393<br>4.8<br>249<br>245 | | 354<br>4.2<br>513<br>238 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 67.50 | 2065 | 6.864 |
| | | | | 449<br>4.4<br>219<br>211 | | 404<br>3.8<br>451<br>204 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 65.10 | 2114 | 7.800 |
| | | | | 520<br>4.0<br>190<br>190 | | 468<br>3.5<br>391<br>202 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 46.80 | 2259 | 9.010 |
| | | 330<br>5.1<br>356<br>207 | | 570<br>3.8<br>174<br>174 | | 513<br>3.3<br>357<br>188 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 40.20 | 2325 | 9.856 |
| 375<br>5.8<br>152<br>152 | | 377<br>4.6<br>313<br>178 | | 651<br>3.4<br>153<br>153 | | 585<br>3.0<br>314<br>161 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 39.00 | 2380 | 11.200 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 29.40 | 1414 | 12.571 |
| 422<br>5.5<br>135<br>135 | | 424<br>4.3<br>279<br>178 | | 732<br>3.2<br>136<br>136 | | 658<br>2.8<br>280<br>160 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 29.40 | 2520 | 12.571 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

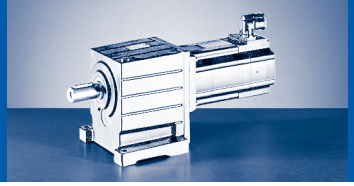
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2933$ Nm

| GST11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 14.286 | 1607 | 28.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 285<br>5.2<br>118<br>118 | | 254<br>4.6<br>244<br>159 | |
| 14.286 | 2579 | 28.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 15.400 | 2695 | 23.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 17.500 | 2758 | 22.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 20.289 | 1570 | 14.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 411<br>3.7<br>83<br>83 | | 364<br>3.6<br>172<br>143 | |
| 20.289 | 2756 | 14.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 23.056 | 1784 | 14.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 468<br>3.7<br>73<br>73 | | 414<br>3.6<br>151<br>125 | |
| 23.056 | 2913 | 14.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 24.933 | 1616 | 10.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 509<br>3.1<br>67<br>67 | | 450<br>3.0<br>140<br>125 | 219<br>5.7<br>165<br>125 |
| 24.933 | 2777 | 10.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 28.333 | 1836 | 10.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 578<br>3.1<br>59<br>59 | | 511<br>3.0<br>123<br>110 | 248<br>5.7<br>145<br>110 |
| 28.333 | 2933 | 10.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 32.267 | 1430 | 7.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 365<br>3.8<br>51<br>51 | | 329<br>3.6<br>107<br>107 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2933$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 28.70 | 1607 | 14.286 |
| 483<br>4.9<br>119<br>119 | | 484<br>3.9<br>246<br>153 | | 834<br>2.9<br>120<br>120 | | 750<br>2.6<br>246<br>139 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 28.70 | 2579 | 14.286 |
| 520<br>5.0<br>110<br>110 | | 520<br>4.3<br>228<br>159 | | 899<br>2.9<br>111<br>111 | | 807<br>2.8<br>229<br>131 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.00 | 2695 | 15.400 |
| 594<br>4.5<br>97<br>97 | | 593<br>3.9<br>201<br>140 | | 1025<br>2.7<br>98<br>98 | | 919<br>2.5<br>201<br>115 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 22.50 | 2758 | 17.500 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.30 | 1570 | 20.289 |
| 694<br>3.9<br>84<br>84 | | 692<br>3.3<br>173<br>121 | | 1193<br>2.3<br>84<br>84 | 462<br>5.5<br>123<br>99 | 1070<br>2.2<br>174<br>99 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.30 | 2756 | 20.289 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.10 | 1784 | 23.056 |
| 790<br>3.6<br>74<br>74 | | 788<br>3.1<br>152<br>106 | | 1358<br>2.1<br>74<br>74 | 527<br>5.1<br>108<br>87 | 1217<br>2.0<br>153<br>87 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.10 | 2913 | 23.056 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.60 | 1616 | 24.933 |
| 859<br>3.2<br>68<br>68 | | 855<br>2.7<br>141<br>98 | | 1472<br>1.9<br>69<br>69 | 574<br>4.5<br>100<br>81 | 1320<br>1.8<br>141<br>81 | 392<br>5.5<br>167<br>81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.60 | 2777 | 24.933 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.40 | 1836 | 28.333 |
| 978<br>2.9<br>60<br>60 | | 974<br>2.5<br>124<br>86 | | 1675<br>1.7<br>60<br>60 | 654<br>4.2<br>88<br>71 | 1502<br>1.7<br>124<br>71 | 448<br>5.1<br>147<br>71 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.40 | 2933 | 28.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.04 | 1430 | 32.267 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

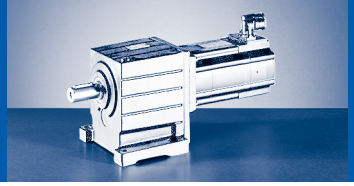
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2933$ Nm

| GST11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 32.267 | 1674 | 7.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 663<br>2.5<br>52<br>52 | 325<br>4.9<br>71<br>71 | 586<br>2.4<br>108<br>96 | 286<br>4.6<br>127<br>96 |
| 32.267 | 2818 | 7.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 36.667 | 1624 | 6.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 415<br>3.8<br>45<br>45 | | 374<br>3.6<br>94<br>94 | | | | | |
| 36.667 | 1902 | 6.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 753<br>2.5<br>46<br>46 | 369<br>4.9<br>63<br>63 | 666<br>2.4<br>95<br>85 | 326<br>4.6<br>112<br>85 |
| 36.667 | 2933 | 6.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 39.160 | 1452 | 5.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 446<br>3.2<br>42<br>42 | 242<br>5.7<br>51<br>51 | 402<br>3.1<br>88<br>88 | 195<br>5.8<br>105<br>92 | | | | |
| 39.160 | 1701 | 5.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 808<br>2.1<br>43<br>43 | 397<br>4.1<br>59<br>59 | 714<br>2.0<br>89<br>79 | 350<br>3.8<br>105<br>79 |
| 39.160 | 2826 | 5.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 44.500 | 1650 | 5.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 506<br>3.2<br>37<br>37 | 275<br>5.7<br>45<br>45 | 455<br>3.4<br>78<br>78 | | | | | |
| 44.500 | 1933 | 5.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 918<br>2.1<br>38<br>38 | 451<br>4.2<br>52<br>52 | 810<br>2.2<br>78<br>70 | 396<br>4.2<br>92<br>70 |
| 44.500 | 2933 | 5.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 49.500 | 1476 | 3.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 567<br>2.6<br>33<br>33 | 310<br>4.6<br>40<br>40 | 510<br>2.7<br>70<br>70 | 248<br>5.1<br>83<br>73 | | | | |
| 49.500 | 1728 | 3.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1025<br>1.7<br>34<br>34 | 506<br>3.3<br>47<br>46 | 905<br>1.8<br>70<br>63 | 445<br>3.4<br>83<br>63 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2933$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.04 | 1674 | 32.267 |
| 1119<br>2.5<br>53<br>53 | 487<br>5.4<br>73<br>73 | 1114<br>2.1<br>109<br>76 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.04 | 2818 | 32.267 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.93 | 1624 | 36.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.93 | 1902 | 36.667 |
| 1274<br>2.3<br>46<br>46 | 556<br>5.0<br>64<br>64 | 1268<br>2.0<br>96<br>67 | 407<br>5.6<br>113<br>67 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.93 | 2933 | 36.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.15 | 1452 | 39.160 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.15 | 1701 | 39.160 |
| 1364<br>2.1<br>43<br>43 | 597<br>4.5<br>60<br>60 | 1357<br>1.8<br>90<br>63 | 437<br>5.0<br>106<br>63 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.15 | 2826 | 39.160 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.08 | 1650 | 44.500 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.08 | 1933 | 44.500 |
| 1553<br>1.9<br>38<br>38 | 681<br>4.2<br>53<br>53 | 1542<br>1.8<br>79<br>55 | 496<br>5.1<br>93<br>55 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.08 | 2933 | 44.500 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 1476 | 49.500 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 1728 | 49.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

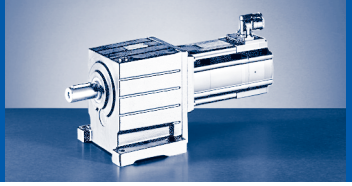
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2933$ Nm

| GST11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 56.250 | 1677 | 3.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 644<br>2.6<br>29<br>29 | 352<br>4.6<br>36<br>36 | 579<br>2.7<br>61<br>61 | 282<br>5.1<br>73<br>64 | | | | |
| 56.250 | 1964 | 3.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1165<br>1.7<br>30<br>30 | 575<br>3.3<br>41<br>41 | 1028<br>1.8<br>62<br>55 | 506<br>3.4<br>73<br>55 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2933$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.44 | 1677 | 56.250 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.44 | 1964 | 56.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

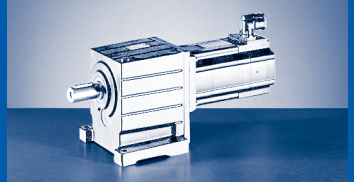
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2848$ Nm

| GST11-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 40.816 | 1641 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 233<br>5.8<br>84<br>84 | | | | | |
| 40.816 | 2444 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 447<br>5.2<br>40<br>40 | | 404<br>5.0<br>85<br>85 | |
| 40.816 | 2550 | 6.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 44.000 | 2410 | 5.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 485<br>4.8<br>37<br>37 | | 435<br>5.1<br>79<br>79 | |
| 50.000 | 2725 | 5.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 551<br>4.8<br>33<br>33 | | 494<br>5.0<br>69<br>69 | |
| 57.968 | 2577 | 4.77 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 645<br>3.9<br>28<br>28 | | 579<br>4.1<br>60<br>60 | |
| 61.250 | 2725 | 4.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 681<br>3.9<br>27<br>27 | | 612<br>4.1<br>56<br>56 | |
| 71.011 | 2637 | 3.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 795<br>3.2<br>23<br>23 | 432<br>5.8<br>28<br>28 | 714<br>3.4<br>49<br>49 | |
| 80.694 | 2787 | 3.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 906<br>3.0<br>20<br>20 | 493<br>5.4<br>25<br>25 | 814<br>3.2<br>43<br>43 | |
| 87.267 | 2657 | 3.22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 983<br>2.7<br>19<br>19 | 537<br>4.8<br>23<br>23 | 884<br>2.8<br>40<br>40 | 430<br>5.3<br>47<br>41 |
| 99.167 | 2810 | 3.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1120<br>2.5<br>17<br>16 | 612<br>4.4<br>20<br>20 | 1006<br>2.6<br>35<br>35 | 491<br>5.0<br>41<br>36 |
| 112.933 | 2695 | 2.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1280<br>2.1<br>15<br>14 | 702<br>3.7<br>18<br>18 | 1151<br>2.2<br>31<br>31 | 563<br>4.2<br>36<br>32 |
| 129.074 | 2810 | 1.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 757<br>3.5<br>26<br>26 | 472<br>5.2<br>31<br>31 | 1466<br>1.9<br>13<br>13 | 806<br>3.4<br>16<br>15 | 1318<br>2.0<br>27<br>27 | 647<br>3.8<br>32<br>28 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

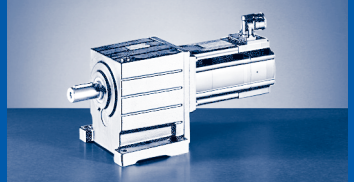


## $M_{2\,GN} \leq 2848$ Nm

| 17NC17 | 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | GST11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 21.50 | 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1680 | 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | $n_1$ | | | |
| 8.5 | 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | $I_{M\,400}$ | | | |
| 3.80 | 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 1641 | 40.816 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 2444 | 40.816 |
| 821<br>3.0<br>41<br>41 | 399<br>6.0<br>56<br>56 | 726<br>3.0<br>85<br>76 | 353<br>5.6<br>101<br>76 | 1404<br>1.8<br>42<br>42 | 616<br>3.9<br>57<br>57 | 1396<br>1.6<br>86<br>60 | 451<br>4.4<br>102<br>60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.36 | 2550 | 40.816 |
| 888<br>2.7<br>38<br>38 | 434<br>5.3<br>52<br>52 | 783<br>2.9<br>79<br>71 | 381<br>5.4<br>93<br>71 | 1517<br>1.6<br>39<br>39 | 667<br>3.5<br>53<br>53 | 1506<br>1.5<br>80<br>56 | 487<br>4.3<br>94<br>56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.66 | 2410 | 44.000 |
| 1010<br>2.7<br>34<br>34 | 493<br>5.3<br>46<br>46 | 890<br>2.9<br>70<br>62 | 433<br>5.4<br>82<br>62 | 1724<br>1.6<br>34<br>34 | 759<br>3.5<br>47<br>47 | 1711<br>1.5<br>70<br>49 | 554<br>4.3<br>83<br>49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.60 | 2725 | 50.000 |
| 1177<br>2.2<br>29<br>29 | 578<br>4.3<br>40<br>40 | 1038<br>2.3<br>60<br>54 | 508<br>4.4<br>71<br>54 | 2005<br>1.3<br>29<br>29 | 885<br>2.9<br>40<br>40 | 1990<br>1.2<br>61<br>42 | 648<br>3.5<br>72<br>42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.77 | 2577 | 57.968 |
| 1243<br>2.2<br>27<br>27 | 610<br>4.3<br>38<br>38 | 1097<br>2.3<br>57<br>51 | 536<br>4.4<br>67<br>51 | 2119<br>1.3<br>28<br>28 | 936<br>2.9<br>38<br>38 | 2102<br>1.2<br>57<br>40 | 684<br>3.5<br>68<br>40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.08 | 2725 | 61.250 |
| 1447<br>1.8<br>24<br>24 | 713<br>3.6<br>32<br>32 | 1277<br>2.0<br>49<br>44 | 627<br>3.7<br>58<br>44 | 2462<br>1.1<br>24<br>24 | 1090<br>2.4<br>33<br>33 | 2442<br>1.0<br>49<br>34 | 798<br>2.9<br>58<br>34 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.52 | 2637 | 71.011 |
| 1646<br>1.7<br>21<br>21 | 812<br>3.4<br>29<br>29 | 1453<br>1.8<br>43<br>39 | 714<br>3.4<br>51<br>39 | | 1241<br>2.2<br>29<br>29 | | 909<br>2.7<br>51<br>30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.50 | 2787 | 80.694 |
| 1784<br>1.5<br>19<br>19 | 882<br>3.0<br>26<br>26 | 1575<br>1.6<br>40<br>36 | 776<br>3.0<br>47<br>36 | | 1346<br>2.0<br>27<br>27 | | 986<br>2.4<br>48<br>28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.22 | 2657 | 87.267 |
| 2029<br>1.4<br>17<br>17 | 1005<br>2.8<br>23<br>23 | 1792<br>1.5<br>35<br>31 | 883<br>2.8<br>42<br>31 | | 1532<br>1.8<br>24<br>24 | | 1123<br>2.2<br>42<br>25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.20 | 2810 | 99.167 |
| 2317<br>1.2<br>15<br>15 | 1150<br>2.3<br>20<br>20 | 2045<br>1.3<br>31<br>28 | 1011<br>2.4<br>36<br>28 | | 1749<br>1.5<br>21<br>21 | | 1283<br>1.9<br>37<br>22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.93 | 2695 | 112.933 |
| 2650<br>1.1<br>13<br>13 | 1317<br>2.1<br>18<br>18 | 2340<br>1.1<br>27<br>24 | 1158<br>2.2<br>32<br>24 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.94 | 2810 | 129.074 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



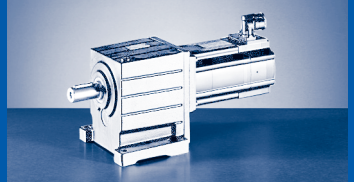


## $M_{2\,GN} \leq 2848$ Nm

| GST11-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 146.993 | 2695 | 1.77 | $M_2$ | | 867 | 542 | 1675 | 923 | 1506 | 741 |
| | | | c | | 2.9 | 4.3 | 1.6 | 2.9 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | 23 | 28 | 11 | 14 | 24 | 28 |
| | | | $n_{2\,th}$ | | 23 | 28 | 11 | 14 | 24 | 24 |
| 158.194 | 2810 | 1.40 | $M_2$ | | 934 | 584 | 1804 | 994 | 1622 | 798 |
| | | | c | | 2.8 | 4.2 | 1.6 | 2.8 | 1.6 | 3.1 |
| | | | $n_{2\,Eck}$ | | 22 | 26 | 10 | 13 | 22 | 26 |
| | | | $n_{2\,th}$ | | 22 | 26 | 10 | 13 | 22 | 23 |
| 180.156 | 2695 | 1.29 | $M_2$ | | 1069 | 670 | 2059 | 1137 | 1852 | 914 |
| | | | c | | 2.4 | 3.5 | 1.3 | 2.3 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | 19 | 23 | 9 | 11 | 19 | 23 |
| | | | $n_{2\,th}$ | | 19 | 22 | 9 | 11 | 19 | 20 |
| 207.778 | 2810 | 0.88 | $M_2$ | | 1236 | 776 | 2378 | 1315 | 2139 | 1057 |
| | | | c | | 2.2 | 3.2 | 1.2 | 2.1 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 16 | 20 | 8 | 10 | 17 | 20 |
| | | | $n_{2\,th}$ | | 16 | 19 | 8 | 10 | 17 | 17 |
| 236.622 | 2695 | 0.82 | $M_2$ | 431 | 1413 | 888 | | 1503 | 2441 | 1208 |
| | | | c | 5.4 | 1.8 | 2.7 | | 1.8 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 17 | 14 | 17 | | 9 | 15 | 17 |
| | | | $n_{2\,th}$ | 17 | 14 | 17 | | 8 | 15 | 15 |
| 252.167 | 2810 | 0.63 | $M_2$ | 460 | 1506 | 947 | | 1602 | 2602 | 1288 |
| | | | c | 5.3 | 1.8 | 2.6 | | 1.7 | 1.0 | 2.0 |
| | | | $n_{2\,Eck}$ | 16 | 14 | 16 | | 8 | 14 | 16 |
| | | | $n_{2\,th}$ | 16 | 14 | 16 | | 8 | 14 | 14 |
| 268.889 | 2848 | 0.82 | $M_2$ | 492 | 1607 | 1012 | | 1710 | | 1375 |
| | | | c | 5.1 | 1.7 | 2.5 | | 1.7 | | 1.9 |
| | | | $n_{2\,Eck}$ | 15 | 13 | 15 | | 7 | | 15 |
| | | | $n_{2\,th}$ | 15 | 13 | 15 | | 7 | | 13 |
| 326.333 | 2848 | 0.59 | $M_2$ | 603 | 1957 | 1234 | | 2082 | | 1675 |
| | | | c | 4.2 | 1.4 | 2.1 | | 1.4 | | 1.5 |
| | | | $n_{2\,Eck}$ | 12 | 11 | 12 | | 6 | | 13 |
| | | | $n_{2\,th}$ | 12 | 10 | 12 | | 6 | | 11 |
| 363.000 | 2695 | 0.76 | $M_2$ | 675 | 2181 | 1377 | | | | |
| | | | c | 3.5 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 11 | 9 | 11 | | | | |
| | | | $n_{2\,th}$ | 11 | 9 | 11 | | | | |
| 412.500 | 2848 | 0.55 | $M_2$ | 769 | 2481 | 1566 | | | | |
| | | | c | 3.3 | 1.1 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 10 | 8 | 10 | | | | |
| | | | $n_{2\,th}$ | 10 | 8 | 10 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2848$ Nm

| 17NC17 | 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | GST11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 21.50 | 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1680 | 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | $n_1$ | | | |
| 8.5 | 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | $I_{M\,400}$ | | | |
| 3.80 | 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | $J_M$ | | | |
| | 1505<br>1.8<br>16<br>16 | | 1323<br>1.8<br>28<br>21 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.77 | 2695 | 146.993 |
| | 1620<br>1.7<br>15<br>15 | | 1425<br>1.8<br>26<br>20 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.40 | 2810 | 158.194 |
| | 1851<br>1.5<br>13<br>13 | | 1627<br>1.5<br>23<br>17 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.29 | 2695 | 180.156 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.88 | 2810 | 207.778 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 2695 | 236.622 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.63 | 2810 | 252.167 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 2848 | 268.889 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.59 | 2848 | 326.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.76 | 2695 | 363.000 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.55 | 2848 | 412.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

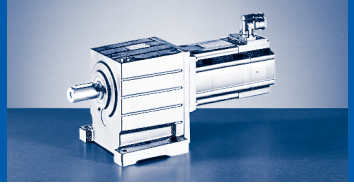
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5786$ Nm

| GST14-2A | | | | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC25 | 21XC35 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 61.40 | 24.60 | 55.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 1710 | 2490 | 3520 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 22.5 | 13.5 | 42.5 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 11.00 | 6.40 | 20.30 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 | 180.04 |
| 8.027 | 3168 | 100.00 | $M_2$ | | | | | | 408 |
| | | | c | | | | | | 5.6 |
| | | | $n_{2\,Eck}$ | | | | | | 439 |
| | | | $n_{2\,th}$ | | | | | | 251 |
| 8.800 | 3737 | 139.00 | $M_2$ | | | | | | 445 |
| | | | c | | | | | | 6.0 |
| | | | $n_{2\,Eck}$ | | | | | | 400 |
| | | | $n_{2\,th}$ | | | | | | 195 |
| 9.841 | 3333 | 75.10 | $M_2$ | | | | 559 | | 505 |
| | | | c | | | | 5.4 | | 4.8 |
| | | | $n_{2\,Eck}$ | | | | 174 | | 358 |
| | | | $n_{2\,th}$ | | | | 174 | | 205 |
| 11.000 | 3940 | 119.00 | $M_2$ | | | | 623 | | 562 |
| | | | c | | | | 5.8 | | 5.1 |
| | | | $n_{2\,Eck}$ | | | | 156 | | 320 |
| | | | $n_{2\,th}$ | | | | 155 | | 154 |
| 12.362 | 4176 | 89.00 | $M_2$ | | | | 703 | | 634 |
| | | | c | | | | 5.4 | | 4.8 |
| | | | $n_{2\,Eck}$ | | | | 138 | | 285 |
| | | | $n_{2\,th}$ | | | | 138 | | 158 |
| 14.048 | 4270 | 86.60 | $M_2$ | | | | 803 | | 724 |
| | | | c | | | | 4.9 | | 4.3 |
| | | | $n_{2\,Eck}$ | | | | 122 | | 251 |
| | | | $n_{2\,th}$ | | | | 122 | | 136 |
| 15.156 | 4466 | 67.60 | $M_2$ | | | | 866 | | 778 |
| | | | c | | | | 5.0 | | 4.7 |
| | | | $n_{2\,Eck}$ | | | | 113 | | 232 |
| | | | $n_{2\,th}$ | | | | 113 | | 133 |
| 17.222 | 4565 | 66.00 | $M_2$ | | | | 989 | | 888 |
| | | | c | | | | 4.5 | | 4.3 |
| | | | $n_{2\,Eck}$ | | | | 99 | | 204 |
| | | | $n_{2\,th}$ | | | | 99 | | 117 |
| 20.044 | 3958 | 45.80 | $M_2$ | 672 | | 672 | | | |
| | | | c | 5.6 | | 4.8 | | | |
| | | | $n_{2\,Eck}$ | 85 | | 175 | | | |
| | | | $n_{2\,th}$ | 85 | | 122 | | | |
| 20.044 | 4902 | 45.80 | $M_2$ | | | | 1156 | | 1037 |
| | | | c | | | | 4.1 | | 3.9 |
| | | | $n_{2\,Eck}$ | | | | 85 | | 176 |
| | | | $n_{2\,th}$ | | | | 85 | | 100 |
| 22.778 | 4498 | 44.90 | $M_2$ | 764 | | 764 | | | |
| | | | c | 5.6 | | 4.8 | | | |
| | | | $n_{2\,Eck}$ | 75 | | 154 | | | |
| | | | $n_{2\,th}$ | 75 | | 108 | | | |
| 22.778 | 5010 | 44.90 | $M_2$ | | | | 1319 | | 1184 |
| | | | c | | | | 3.7 | | 3.5 |
| | | | $n_{2\,Eck}$ | | | | 75 | | 155 |
| | | | $n_{2\,th}$ | | | | 75 | | 88 |
| 24.567 | 4286 | 33.20 | $M_2$ | 830 | | 829 | | | |
| | | | c | 5.0 | | 4.3 | | | |
| | | | $n_{2\,Eck}$ | 69 | | 143 | | | |
| | | | $n_{2\,th}$ | 69 | | 100 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5786$ Nm

| GST14-2A | | | | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC25 | 21XC35 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 61.40 | 24.60 | 55.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 1710 | 2490 | 3520 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 22.5 | 13.5 | 42.5 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 11.00 | 6.40 | 20.30 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 | 180.04 |
| 24.567 | 5236 | 33.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1425<br>3.6<br>70<br>70 | | 1278<br>3.4<br>143<br>82 |
| 27.917 | 4871 | 32.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 943<br>5.0<br>61<br>61 | | 942<br>4.3<br>126<br>88 | | | |
| 27.917 | 5355 | 32.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1625<br>3.2<br>61<br>61 | | 1458<br>3.1<br>126<br>72 |
| 32.267 | 4423 | 21.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1103<br>3.9<br>53<br>53 | | 1100<br>3.4<br>109<br>76 | | | |
| 32.267 | 5436 | 21.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1886<br>2.8<br>53<br>53 | | 1692<br>2.7<br>109<br>62 |
| 36.667 | 5026 | 21.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1253<br>3.9<br>46<br>46 | | 1250<br>3.4<br>96<br>67 | | | |
| 36.667 | 5768 | 21.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2147<br>2.6<br>47<br>47 | | 1926<br>2.5<br>96<br>55 |
| 39.160 | 4493 | 15.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1347<br>3.3<br>43<br>43 | | 1342<br>2.8<br>90<br>63 | | | |
| 39.160 | 5452 | 15.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2301<br>2.3<br>44<br>44 | 890<br>5.6<br>64<br>51 | 2063<br>2.2<br>90<br>51 |
| 44.500 | 5106 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1531<br>3.3<br>38<br>38 | | 1520<br>3.1<br>79<br>55 | | | |
| 44.500 | 5786 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2619<br>2.2<br>38<br>38 | 1013<br>5.5<br>56<br>45 | 2343<br>2.3<br>79<br>45 |
| 49.500 | 4348 | 10.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1717<br>2.5<br>34<br>34 | 746<br>5.6<br>47<br>47 | 1704<br>2.4<br>71<br>49 | | | |
| 56.250 | 4940 | 10.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1951<br>2.5<br>30<br>30 | 848<br>5.6<br>42<br>42 | 1937<br>2.4<br>62<br>44 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

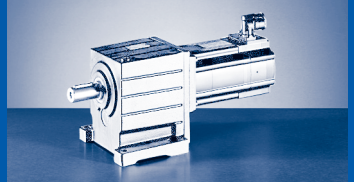
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5920$ Nm

| GST14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 40.185 | 4099 | 24.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 791<br>5.0<br>42<br>42 | | 700<br>4.8<br>87<br>77 | |
| 40.185 | 4476 | 24.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 42.580 | 3804 | 18.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 844<br>4.4<br>40<br>39 | | 743<br>4.7<br>82<br>73 | |
| 42.580 | 4262 | 18.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 48.386 | 4323 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 959<br>4.4<br>35<br>35 | | 845<br>4.7<br>72<br>64 | |
| 48.386 | 4843 | 18.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 53.148 | 4779 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1053<br>4.4<br>32<br>32 | | 928<br>4.7<br>66<br>59 | |
| 59.321 | 4546 | 13.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1184<br>3.7<br>28<br>28 | | 1043<br>4.0<br>59<br>52 | |
| 59.321 | 5267 | 13.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 69.042 | 4917 | 11.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1382<br>3.5<br>24<br>24 | | 1218<br>3.7<br>50<br>45 | |
| 78.457 | 5587 | 11.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1570<br>3.5<br>21<br>21 | | 1384<br>3.7<br>44<br>40 | |
| 93.541 | 4793 | 6.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1034<br>4.5<br>18<br>17 | | 928<br>4.7<br>37<br>37 | | | | | |
| 93.541 | 5524 | 6.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1884<br>2.9<br>18<br>18 | 918<br>5.7<br>25<br>25 | 1661<br>3.1<br>37<br>33 | 806<br>5.9<br>44<br>33 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5920$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 24.40 | 4099 | 40.185 |
| 1362<br>3.2<br>42<br>42 | | 1357<br>2.8<br>87<br>61 | | 2336<br>1.9<br>43<br>43 | 910<br>4.6<br>62<br>50 | 2094<br>1.8<br>88<br>50 | 622<br>5.5<br>104<br>50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 24.40 | 4476 | 40.185 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.30 | 3804 | 42.580 |
| 1448<br>2.9<br>40<br>40 | | 1438<br>2.8<br>82<br>58 | | 2480<br>1.7<br>40<br>40 | 967<br>4.3<br>59<br>47 | 2219<br>1.8<br>83<br>47 | 659<br>5.5<br>98<br>47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.30 | 4262 | 42.580 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.10 | 4323 | 48.386 |
| 1645<br>2.9<br>35<br>35 | | 1634<br>2.8<br>73<br>51 | | 2818<br>1.7<br>35<br>35 | 1099<br>4.3<br>52<br>42 | 2522<br>1.8<br>73<br>42 | 749<br>5.5<br>86<br>42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18.10 | 4843 | 48.386 |
| 1813<br>2.6<br>32<br>32 | 787<br>5.8<br>44<br>44 | 1800<br>2.5<br>66<br>46 | | 3101<br>1.5<br>32<br>32 | 1213<br>3.8<br>47<br>38 | 2775<br>1.6<br>66<br>38 | 828<br>5.0<br>78<br>38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 20.50 | 4779 | 53.148 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.20 | 4546 | 59.321 |
| 2024<br>2.6<br>29<br>29 | 879<br>5.7<br>40<br>39 | 2010<br>2.5<br>59<br>41 | | 3462<br>1.5<br>29<br>29 | 1354<br>3.8<br>42<br>34 | 3098<br>1.6<br>59<br>34 | 924<br>4.9<br>70<br>34 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.20 | 5267 | 59.321 |
| 2369<br>2.1<br>25<br>25 | 1035<br>4.6<br>34<br>34 | 2351<br>2.0<br>51<br>35 | 754<br>5.6<br>60<br>35 | 4042<br>1.2<br>25<br>25 | 1589<br>3.0<br>36<br>29 | 3618<br>1.3<br>51<br>29 | 1087<br>3.9<br>60<br>29 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.50 | 4917 | 69.042 |
| 2692<br>2.1<br>22<br>22 | 1176<br>4.6<br>30<br>30 | 2672<br>2.0<br>45<br>31 | 857<br>5.6<br>53<br>31 | 4593<br>1.2<br>22<br>22 | 1805<br>3.0<br>32<br>26 | 4112<br>1.3<br>45<br>26 | 1236<br>3.9<br>53<br>26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.40 | 5587 | 78.457 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.57 | 4793 | 93.541 |
| 3221<br>1.7<br>18<br>18 | 1415<br>3.8<br>25<br>25 | 3197<br>1.6<br>38<br>26 | 1032<br>4.6<br>44<br>26 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.57 | 5524 | 93.541 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

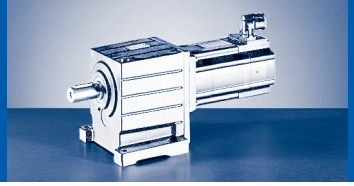
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5920$ Nm

| GST14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 96.157 | 5882 | 10.40 | $M_2$ | | | | | 1935 | 941 | 1706 | |
| | | | c | | | | | 3.0 | 5.9 | 3.2 | |
| | | | $n_{2\,Eck}$ | | | | | 18 | 24 | 36 | |
| | | | $n_{2\,th}$ | | | | | 17 | 24 | 32 | |
| 106.296 | 5447 | 6.52 | $M_2$ | 1175 | | 1054 | | | | | |
| | | | c | 4.5 | | 4.7 | | | | | |
| | | | $n_{2\,Eck}$ | 15 | | 33 | | | | | |
| | | | $n_{2\,th}$ | 15 | | 33 | | | | | |
| 106.296 | 5920 | 6.52 | $M_2$ | | | | | 2145 | 1047 | 1891 | 919 |
| | | | c | | | | | 2.7 | 5.4 | 2.9 | 5.5 |
| | | | $n_{2\,Eck}$ | | | | | 16 | 22 | 33 | 39 |
| | | | $n_{2\,th}$ | | | | | 16 | 22 | 29 | 29 |
| 130.278 | 5920 | 6.00 | $M_2$ | 1448 | | 1300 | | 2643 | 1297 | 2331 | 1139 |
| | | | c | 4.0 | | 4.2 | | 2.2 | 4.4 | 2.4 | 4.5 |
| | | | $n_{2\,Eck}$ | 13 | | 27 | | 13 | 18 | 27 | 32 |
| | | | $n_{2\,th}$ | 13 | | 27 | | 13 | 18 | 24 | 24 |
| 139.211 | 5736 | 4.42 | $M_2$ | 1553 | | 1395 | | 2830 | 1392 | 2497 | 1223 |
| | | | c | 3.6 | | 3.8 | | 2.0 | 4.0 | 2.2 | 4.1 |
| | | | $n_{2\,Eck}$ | 12 | | 25 | | 12 | 17 | 25 | 30 |
| | | | $n_{2\,th}$ | 12 | | 25 | | 12 | 17 | 22 | 22 |
| 158.194 | 5920 | 4.40 | $M_2$ | 1771 | 962 | 1591 | | 3222 | 1588 | 2844 | 1395 |
| | | | c | 3.3 | 5.8 | 3.5 | | 1.8 | 3.6 | 2.0 | 3.7 |
| | | | $n_{2\,Eck}$ | 10 | 13 | 22 | | 11 | 15 | 22 | 26 |
| | | | $n_{2\,th}$ | 10 | 13 | 22 | | 11 | 15 | 20 | 20 |
| 171.111 | 5920 | 5.49 | $M_2$ | 1921 | 1045 | 1725 | | 3491 | 1723 | 3081 | 1514 |
| | | | c | 3.0 | 5.4 | 3.2 | | 1.7 | 3.4 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | 10 | 12 | 20 | | 10 | 13 | 20 | 24 |
| | | | $n_{2\,th}$ | 10 | 12 | 20 | | 10 | 13 | 18 | 18 |
| 204.722 | 5920 | 2.86 | $M_2$ | 2310 | 1263 | 2076 | 1012 | 4188 | 2073 | 3697 | 1822 |
| | | | c | 2.5 | 4.5 | 2.7 | 5.1 | 1.4 | 2.8 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | 8 | 10 | 17 | 20 | 8 | 11 | 17 | 20 |
| | | | $n_{2\,th}$ | 8 | 10 | 17 | 18 | 8 | 11 | 15 | 15 |
| 236.622 | 5779 | 2.65 | $M_2$ | 2682 | 1470 | 2410 | 1179 | 4852 | 2407 | 4284 | 2116 |
| | | | c | 2.1 | 3.8 | 2.3 | 4.3 | 1.2 | 2.4 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | 7 | 9 | 15 | 17 | 7 | 10 | 15 | 17 |
| | | | $n_{2\,th}$ | 7 | 8 | 15 | 15 | 7 | 10 | 13 | 13 |
| 248.458 | 5920 | 2.06 | $M_2$ | 2817 | 1546 | 2532 | 1240 | 5097 | 2529 | 4500 | 2224 |
| | | | c | 2.1 | 3.7 | 2.2 | 4.2 | 1.2 | 2.3 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | 7 | 8 | 14 | 17 | 7 | 9 | 14 | 17 |
| | | | $n_{2\,th}$ | 7 | 8 | 14 | 14 | 7 | 9 | 13 | 13 |
| 268.889 | 5920 | 2.65 | $M_2$ | 3054 | 1678 | 2745 | 1346 | 5521 | 2742 | 4875 | 2411 |
| | | | c | 1.9 | 3.4 | 2.0 | 3.8 | 1.1 | 2.1 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | 6 | 7 | 13 | 15 | 6 | 9 | 13 | 15 |
| | | | $n_{2\,th}$ | 6 | 7 | 13 | 13 | 6 | 9 | 12 | 12 |
| 326.333 | 5920 | 1.92 | $M_2$ | 3720 | 2049 | 3344 | 1646 | | 3341 | | 2938 |
| | | | c | 1.6 | 2.8 | 1.7 | 3.2 | | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | 5 | 6 | 11 | 13 | | 7 | | 13 |
| | | | $n_{2\,th}$ | 5 | 6 | 11 | 11 | | 7 | | 10 |
| 363.000 | 5779 | 2.45 | $M_2$ | 4146 | 2288 | 3728 | 1838 | | | | |
| | | | c | 1.4 | 2.5 | 1.5 | 2.8 | | | | |
| | | | $n_{2\,Eck}$ | 5 | 6 | 10 | 11 | | | | |
| | | | $n_{2\,th}$ | 5 | 6 | 10 | 10 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

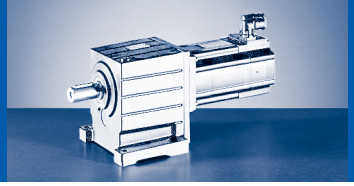


## $M_{2\,GN} \leq 5920$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 3309<br>1.8<br>18<br>18 | 1452<br>3.9<br>24<br>24 | 3284<br>1.7<br>37<br>25 | 1059<br>4.8<br>43<br>25 | 5640<br>1.0<br>18<br>18 | 2223<br>2.6<br>26<br>21 | 5049<br>1.1<br>37<br>21 | 1523<br>3.4<br>43<br>21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.40 | 5882 | 96.157 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.52 | 5447 | 106.296 |
| 3664<br>1.6<br>16<br>16 | 1611<br>3.6<br>22<br>22 | 3637<br>1.5<br>33<br>23 | 1176<br>4.4<br>39<br>23 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.52 | 5920 | 106.296 |
| 4505<br>1.3<br>13<br>13 | 1989<br>2.9<br>18<br>18 | 4470<br>1.3<br>27<br>19 | 1454<br>3.6<br>32<br>19 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.00 | 5920 | 130.278 |
| 4820<br>1.2<br>12<br>12 | 2131<br>2.7<br>17<br>17 | 4783<br>1.1<br>25<br>18 | 1559<br>3.2<br>30<br>18 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.42 | 5736 | 139.211 |
| 5483<br>1.1<br>11<br>11 | 2428<br>2.4<br>15<br>15 | 5441<br>1.0<br>22<br>15 | 1778<br>2.9<br>26<br>15 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.40 | 5920 | 158.194 |
| | 2631<br>2.2<br>14<br>14 | | 1927<br>2.7<br>24<br>14 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.49 | 5920 | 171.111 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.86 | 5920 | 204.722 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.65 | 5779 | 236.622 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.06 | 5920 | 248.458 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.65 | 5920 | 268.889 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.92 | 5920 | 326.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.45 | 5779 | 363.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



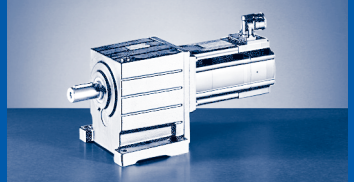


## $M_{2\,GN} \leq 5920$ Nm

| GST14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 412.500 | 5920 | 1.78 | $M_2$ | 4718 | 2607 | 4243 | 2095 | | | | |
| | | | c | 1.3 | 2.2 | 1.3 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | 4 | 5 | 8 | 10 | | | | |
| | | | $n_{2\,th}$ | 4 | 5 | 8 | 9 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

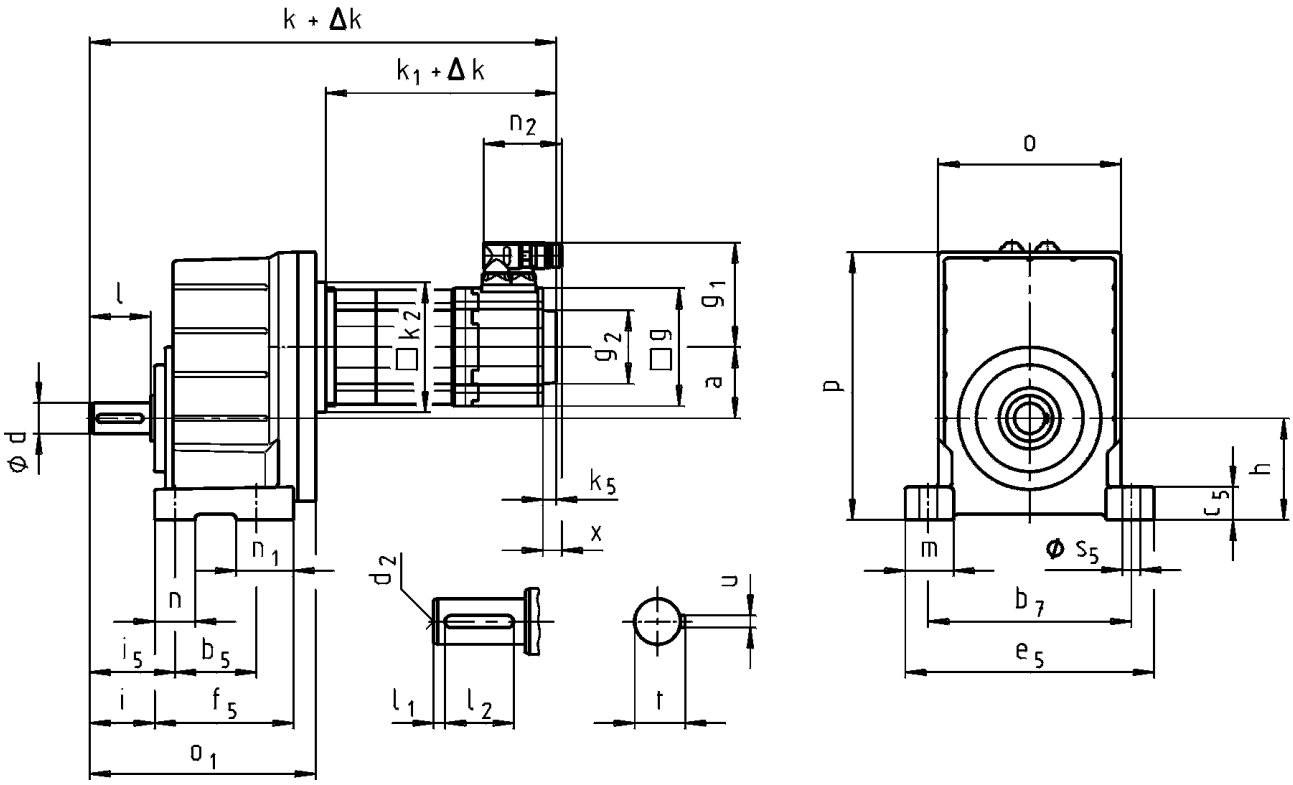


## $M_{2\,GN} \leq 5920$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GST14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.78 | 5920 | 412.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

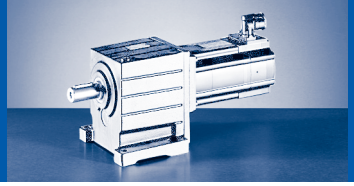



**GST□□-1S VBR ... RSO**

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 279 | 309 | 339 | 331 | 351 | 371 | 411 | | | | | | | |
| GST05... | k | 300 | 330 | 360 | 352 | 372 | 392 | 432 | 369 | | 409 | | | 449 | |
| GST06... | k | 323 | 353 | 383 | 375 | 395 | 415 | 455 | 392 | | 432 | | | 472 | |
| GST07... | k | | | | 404 | 424 | 444 | 484 | 421 | | 461 | | | 501 | |
| GST09... | k | | | | | | | | 464 | | 504 | | | 544 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST05: 12DC20 ... 12LC41



## GST□□-1S VBR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 408 | | 448 | | 488 | | 528 | | | | | | | |
| GST07... | k | 437 | | 477 | | 517 | | 557 | | 476 | | 516 | | 576 | |
| GST09... | k | 480 | | 520 | | 560 | | 600 | | 519 | | 559 | | 619 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

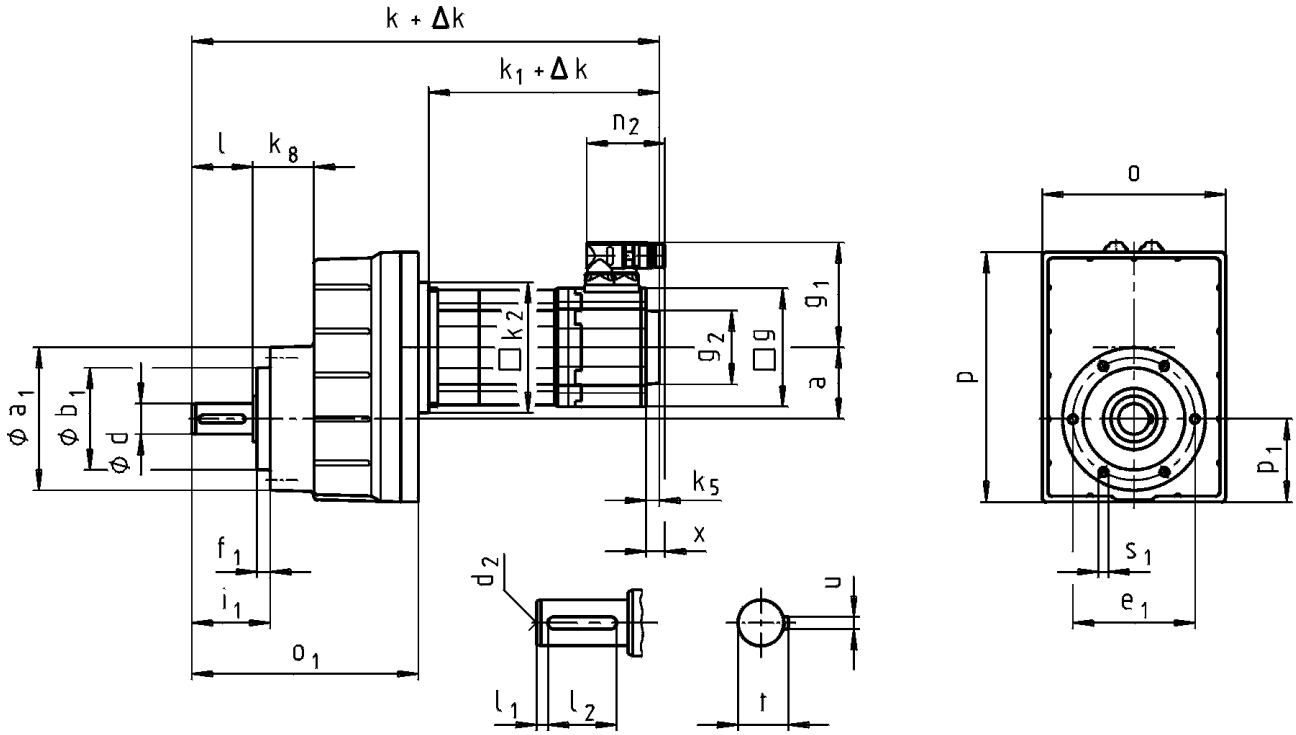
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-1S VBR

| | o | $o_1$ | p | h | a |
|---|---|---|---|---|---|
| GST04... | 100 | 134 | 138 | 50 | 36 |
| GST05... | 115 | 165 | 168 | 63 | 45 |
| GST06... | 145 | 191 | 211 | 80 | 56 |
| GST07... | 180 | 223 | 264 | 100 | 70 |
| GST09... | 222 | 271 | 329 | 125 | 89 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 |
| GST05... | 20 | 40 | | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 |
| GST06... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 |
| GST07... | 30 | 60 | 7.5 | 45 | | | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 48 | 40 | 57 | 18 |
| GST09... | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 51 | 45 | 56 | |

d ≤ 50 mm: k6; d > 50 mm: m6

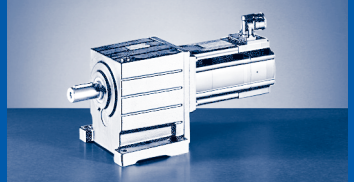



## GST□□-1S VCR ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 279 | 309 | 339 | 331 | 351 | 371 | 411 | | | | | | | |
| GST05... | k | 300 | 330 | 360 | 352 | 372 | 392 | 432 | 369 | | | 409 | | 449 | |
| GST06... | k | 323 | 353 | 383 | 375 | 395 | 415 | 455 | 392 | | | 432 | | 472 | |
| GST07... | k | | | | 404 | 424 | 444 | 484 | 421 | | | 461 | | 501 | |
| GST09... | k | | | | | | | | 464 | | | 504 | | 544 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | | 228 | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST05: 12DC20 ... 12LC41



## GST□□-1S VCR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 408 | | 448 | | 488 | | 528 | | | | | | | |
| GST07... | k | 437 | | 477 | | 517 | | 557 | | 476 | | 516 | | 576 | |
| GST09... | k | 480 | | 520 | | 560 | | 600 | | 519 | | 559 | | 619 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

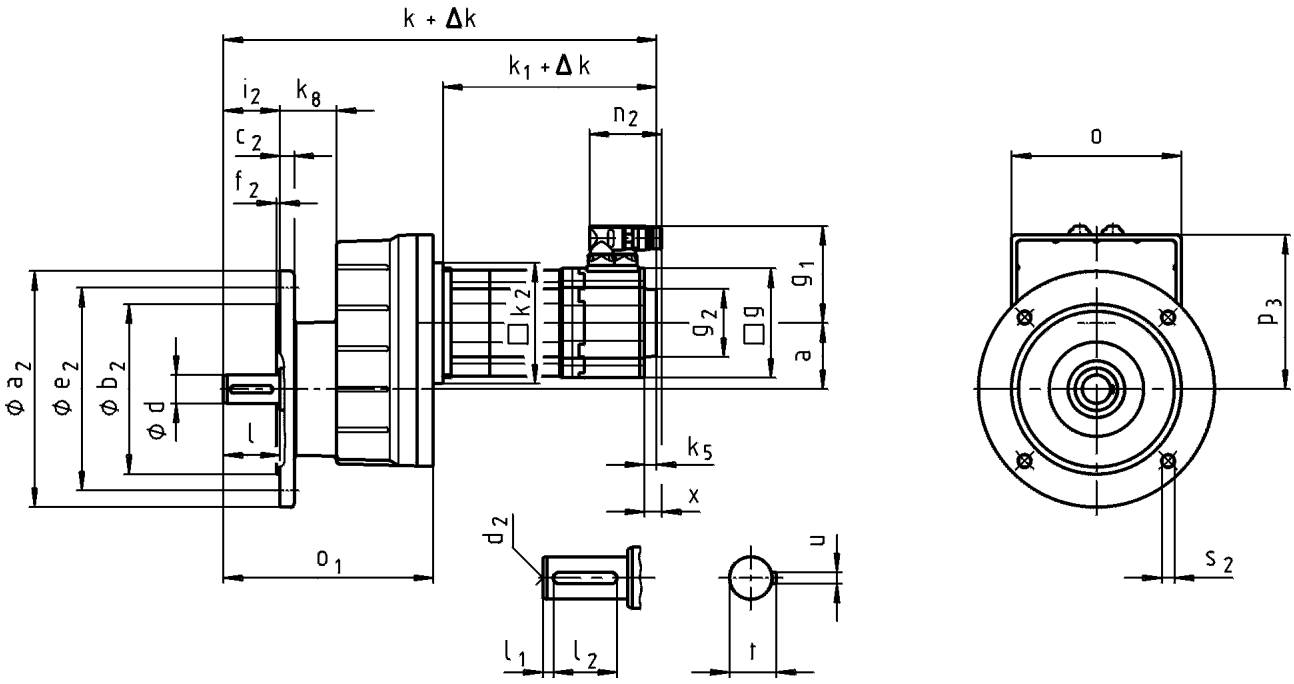
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-1S VCR

| | o | $o_1$ | p | $p_1$ | a | $k_8$ |
|---|---|---|---|---|---|---|
| **GST04...** | 100 | 134 | 129 | 41 | 36 | 35 |
| **GST05...** | 115 | 165 | 156 | 51 | 45 | 43 |
| **GST06...** | 145 | 191 | 194 | 63 | 56 | 48 |
| **GST07...** | 180 | 223 | 245 | 82 | 70 | 60 |
| **GST09...** | 222 | 271 | 304 | 101 | 89 | 74 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| **GST04...** | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 |
| **GST05...** | 20 | 40 | | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 |
| **GST06...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 |
| **GST07...** | 30 | 60 | 7.5 | 45 | | | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 |
| **GST09...** | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 174 | 120 | 145 | 15 | 100 | M12x20 |

d ≤ 50 mm: k6; d > 50 mm: m6

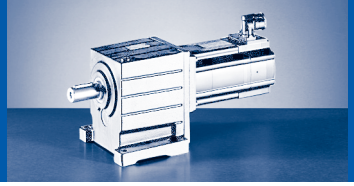



## GST□□-1S VCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 279 | 309 | 339 | 331 | 351 | 371 | 411 | | | | | | | |
| GST05... | k | 300 | 330 | 360 | 352 | 372 | 392 | 432 | 369 | | 409 | | | 449 | |
| GST06... | k | 323 | 353 | 383 | 375 | 395 | 415 | 455 | 392 | | 432 | | | 472 | |
| GST07... | k | | | | 404 | 424 | 444 | 484 | 421 | | 461 | | | 501 | |
| GST09... | k | | | | | | | | 464 | | 504 | | | 544 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| ...RSO | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST05: 12DC20 ... 12LC41



## GST□□-1S VCK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 408 | | 448 | | 488 | | 528 | | | | | | | |
| GST07... | k | 437 | | 477 | | 517 | | 557 | | 476 | | 516 | | 576 | |
| GST09... | k | 480 | | 520 | | 560 | | 600 | | 519 | | 559 | | 619 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

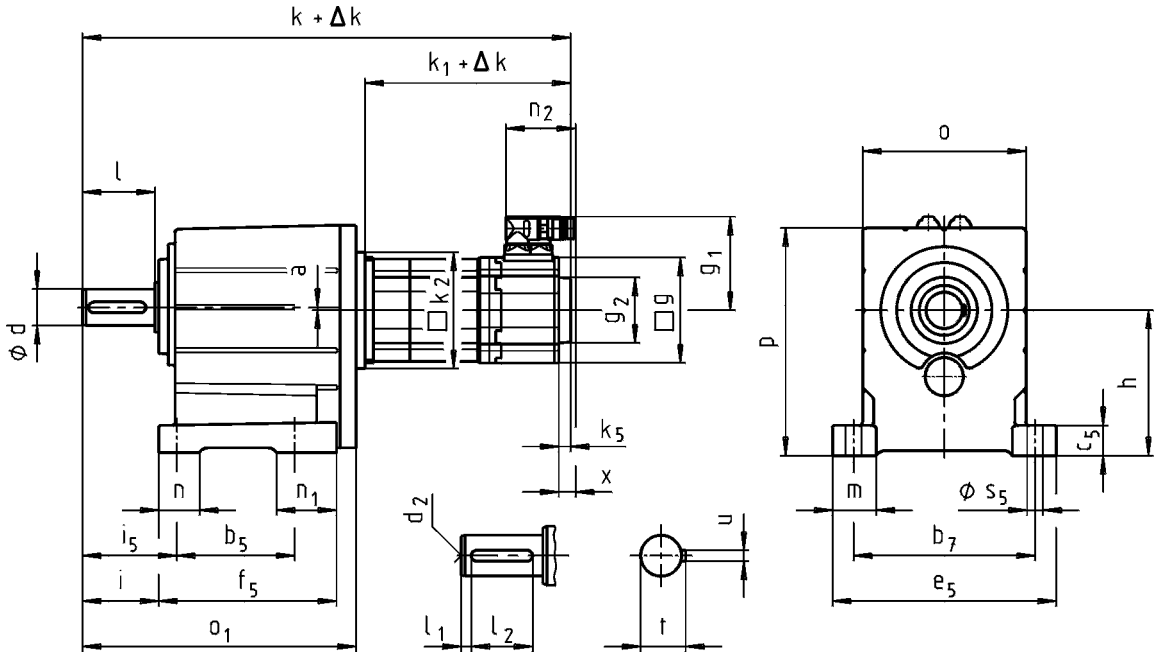
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-1S VCK

| | o | $o_1$ | $p_1$ | $p_3$ | a | $k_8$ |
|---|---|---|---|---|---|---|
| **GST04...** | 100 | 134 | 41 | 88 | 36 | 35 |
| **GST05...** | 115 | 165 | 51 | 105 | 45 | 43 |
| **GST06...** | 145 | 191 | 63 | 131 | 56 | 48 |
| **GST07...** | 180 | 223 | 82 | 164 | 70 | 60 |
| **GST09...** | 222 | 271 | 101 | 204 | 89 | 74 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | 4x90° |
| **GST04...** | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| **GST05...** | 20 | 40 | | 28 | M6 | 6 | 22.5 | 120 | 80 | | 100 | 3 | 40 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| | | | | | | | | 200 | 130 | 12 | 165 | | | 11 |
| **GST06...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | | 130 | | 50 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| **GST07...** | 30 | 60 | 7.5 | 45 | | | 33 | | | 14 | | | 60 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 13.5 |
| **GST09...** | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | | | 16 | | | 80 | |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |

d ≤ 50 mm: k6; d > 50 mm: m6

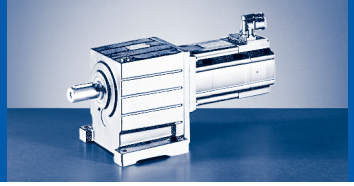



## GST□□-2S VBR ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | k | 279 [2] | 309 [2] | 339 [2] | | | | | | | | | | | |
| | k | 291 [3] | 321 [3] | 351 [3] | | | | | | | | | | | |
| GST04... | k | 319 | 349 | 379 | 371 | 391 | 411 | 451 | | | | | | | |
| GST05... | k | 349 | 379 | 409 | 401 | 421 | 441 | 481 | 418 | | 458 | | | 498 | |
| GST06... | k | 375 | 405 | 435 | 427 | 447 | 467 | 507 | 444 | | 484 | | | 524 | |
| GST07... | k | | | | 483 | 503 | 523 | 563 | 500 | | 540 | | | 580 | |
| GST09... | k | | | | | | | | 563 | | 603 | | | 643 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [4] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] d=14
[3] d=20
[4] GST05: 12DC20 ... 12LC41



## GST□□-2S VBR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 460 | | 500 | | 540 | | 580 | | | | | | | |
| GST07... | k | 516 | | 556 | | 596 | | 636 | | 555 | | 595 | | 655 | |
| GST09... | k | 579 | | 619 | | 659 | | 699 | | 618 | | 658 | | 718 | |
| GST11... | k | 636 | | 676 | | 716 | | 756 | | 675 | | 715 | | 775 | |
| GST14... | k | | | | | | | | | 765 | | 805 | | 865 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

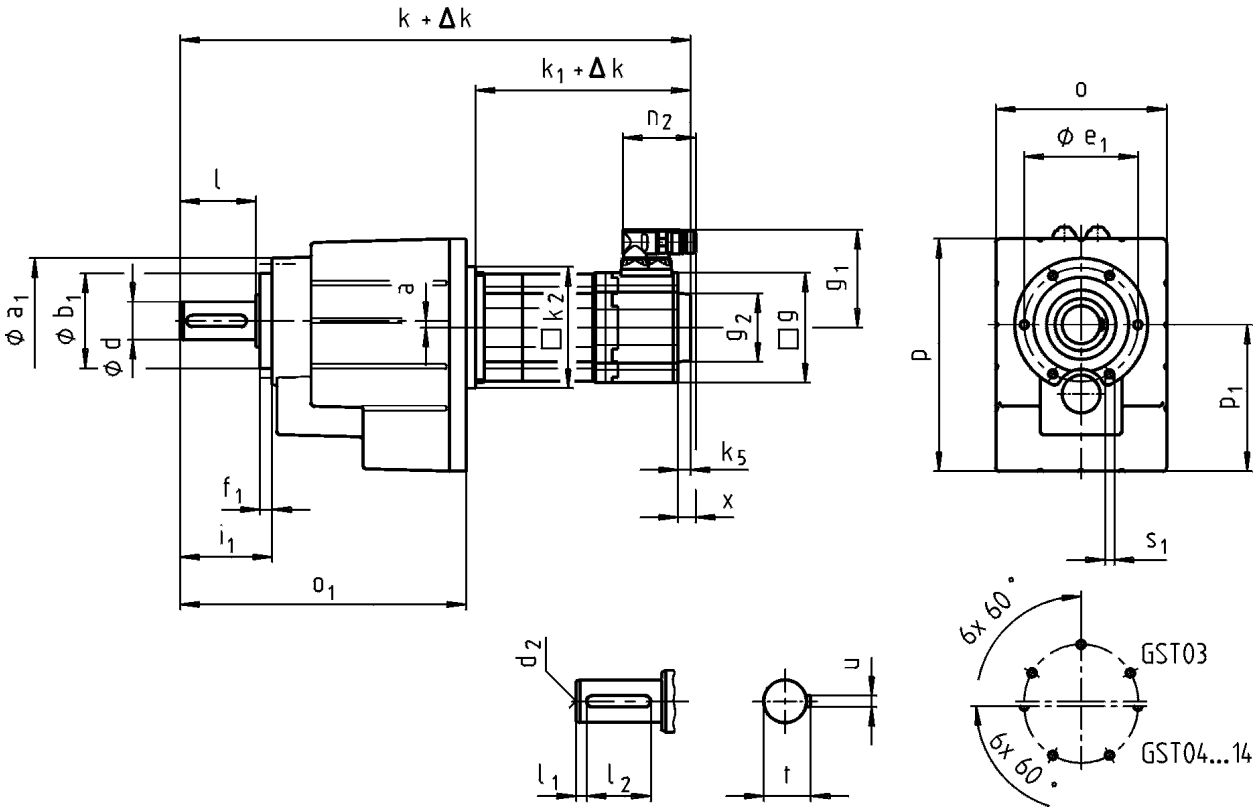
## GST□□-2S VBR

| | o | $o_1$ | p | h | a |
|---|---|---|---|---|---|
| GST03... | 90 | 127 [2]<br>139 [3] | 101 | 65 | 2 |
| GST04... | 100 | 174 | 132 | 80 | 0 |
| GST05... | 115 | 214 | 159 | 100 | 1 |
| GST06... | 145 | 243 | 198 | 125 | 2 |
| GST07... | 180 | 302 | 251 | 160 | 3 |
| GST09... | 222 | 370 | 311 | 200 | 4 |
| GST11... | 270 | 433 | 385 | 250 | |
| GST14... | 328 | 533 | 479 | 315 | 6 |

[2] d=14
[3] d=20

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | 14 | 28 | 4 | 20 | M5 | 5 | 16 | 60 | 91 | 11 | 105 | 84 | 34 | 40 | 20 | - | - | 6.6 |
| | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | | | | | | 46 | 52 | | | | |
| GST04... | | | | | | | | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 25 | 20 | 36 | 9 |
| GST05... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 33 | 26 | 49 | 11 |
| GST06... | 30 | 60 | 6 | 45 | | | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| GST07... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 49 | 45 | 66 | 18 |
| GST09... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | |
| GST11... | 60 | 120 | | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| GST14... | 80 | 160 | 15 | 125 | | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 |

d ≤ 50 mm: k6; d > 50 mm: m6

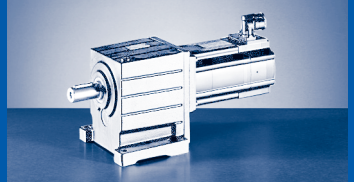



## GST□□-2S VCR ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | k | 279 [2] | 309 [2] | 339 [2] | | | | | | | | | | | |
| | k | 291 [3] | 321 [3] | 351 [3] | | | | | | | | | | | |
| GST04... | k | 319 | 349 | 379 | 371 | 391 | 411 | 451 | | | | | | | |
| GST05... | k | 349 | 379 | 409 | 401 | 421 | 441 | 481 | 418 | | 458 | | | 498 | |
| GST06... | k | 375 | 405 | 435 | 427 | 447 | 467 | 507 | 444 | | 484 | | | 524 | |
| GST07... | k | | | | 483 | 503 | 523 | 563 | 500 | | 540 | | | 580 | |
| GST09... | k | | | | | | | | 563 | | 603 | | | 643 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [4] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] d=14
[3] d=20
[4] GST05: 12DC20 ... 12LC41



## GST□□-2S VCR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 460 | | 500 | | 540 | | 580 | | | | | | | |
| GST07... | k | 516 | | 556 | | 596 | | 636 | | 555 | | 595 | | 655 | |
| GST09... | k | 579 | | 619 | | 659 | | 699 | | 618 | | 658 | | 718 | |
| GST11... | k | 636 | | 676 | | 716 | | 756 | | 675 | | 715 | | 775 | |
| GST14... | k | | | | | | | | | 765 | | 805 | | 865 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

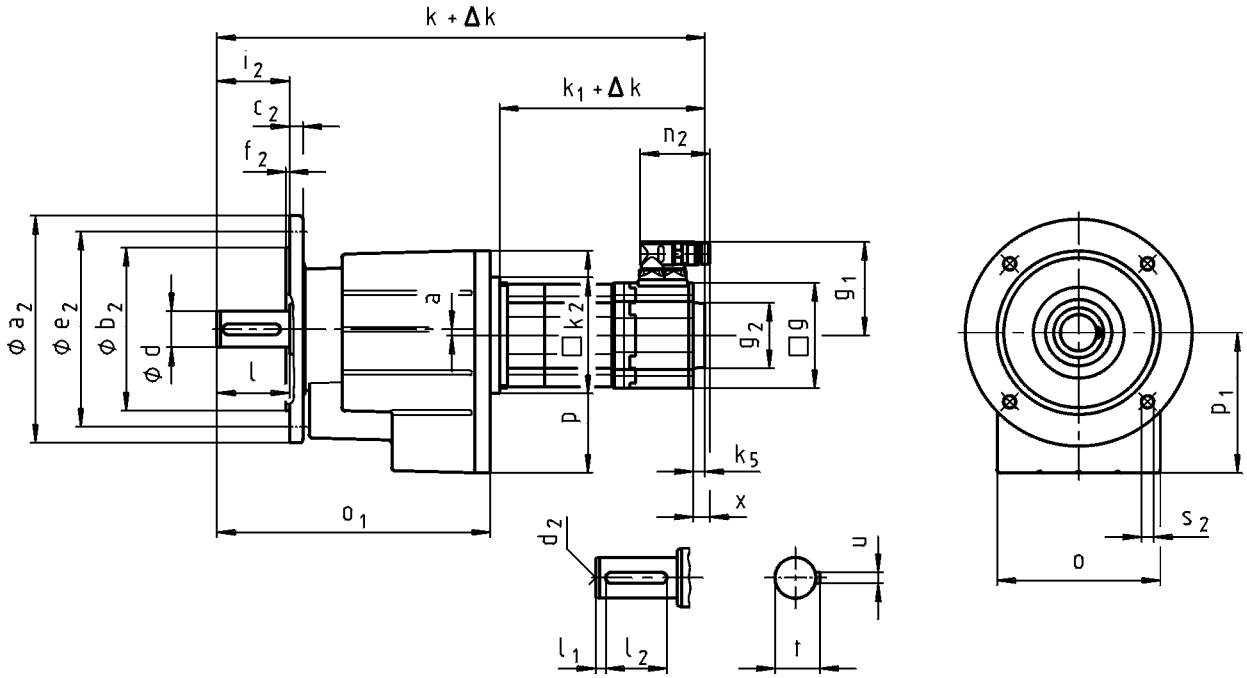
## GST□□-2S VCR

| | o | $o_1$ | p | $p_1$ | a |
|---|---|---|---|---|---|
| **GST03...** | 90 | 127 [2] 139 [3] | 100 | 64 | 2 |
| **GST04...** | 100 | 174 | 129 | 77 | 0 |
| **GST05...** | 115 | 214 | 156 | 98 | 1 |
| **GST06...** | 145 | 243 | 194 | 121 | 2 |
| **GST07...** | 180 | 302 | 245 | 155 | 3 |
| **GST09...** | 222 | 370 | 304 | 194 | 4 |
| **GST11...** | 270 | 433 | 378 | 243 | |
| **GST14...** | 328 | 533 | 470 | 306 | 6 |

[2] d=14
[3] d=20

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| **GST03...** | 14 | 28 | 4 | 20 | M5 | 5 | 16 | 71 | 48 | 61 | 8 | 39 | M5x10 |
| **GST04...** | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 72 | | | | 51 | |
| **GST05...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| **GST06...** | 30 | 60 | 6 | 45 | | | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| **GST07...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 |
| **GST09...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| **GST11...** | 60 | 120 | | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| **GST14...** | 80 | 160 | 15 | 125 | | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 |

d ≤ 50 mm: k6; d > 50 mm: m6

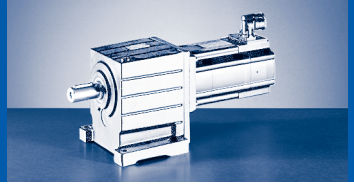



## GST□□-2S VCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | k | 279 [2] | 309 [2] | 339 [2] | | | | | | | | | | | |
| | k | 291 [3] | 321 [3] | 351 [3] | | | | | | | | | | | |
| GST04... | k | 319 | 349 | 379 | 371 | 391 | 411 | 451 | | | | | | | |
| GST05... | k | 349 | 379 | 409 | 401 | 421 | 441 | 481 | 418 | | 458 | | | 498 | |
| GST06... | k | 375 | 405 | 435 | 427 | 447 | 467 | 507 | 444 | | 484 | | | 524 | |
| GST07... | k | | | | 483 | 503 | 523 | 563 | 500 | | 540 | | | 580 | |
| GST09... | k | | | | | | | | 563 | | 603 | | | 643 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [4] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] d=14
[3] d=20
[4] GST05: 12DC20 ... 12LC41



## GST□□-2S VCK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 460 | | 500 | | 540 | | 580 | | | | | | | |
| GST07... | k | 516 | | 556 | | 596 | | 636 | | 555 | | 595 | | 655 | |
| GST09... | k | 579 | | 619 | | 659 | | 699 | | 618 | | 658 | | 718 | |
| GST11... | k | 636 | | 676 | | 716 | | 756 | | 675 | | 715 | | 775 | |
| GST14... | k | | | | | | | | | 765 | | 805 | | 865 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-2S VCK

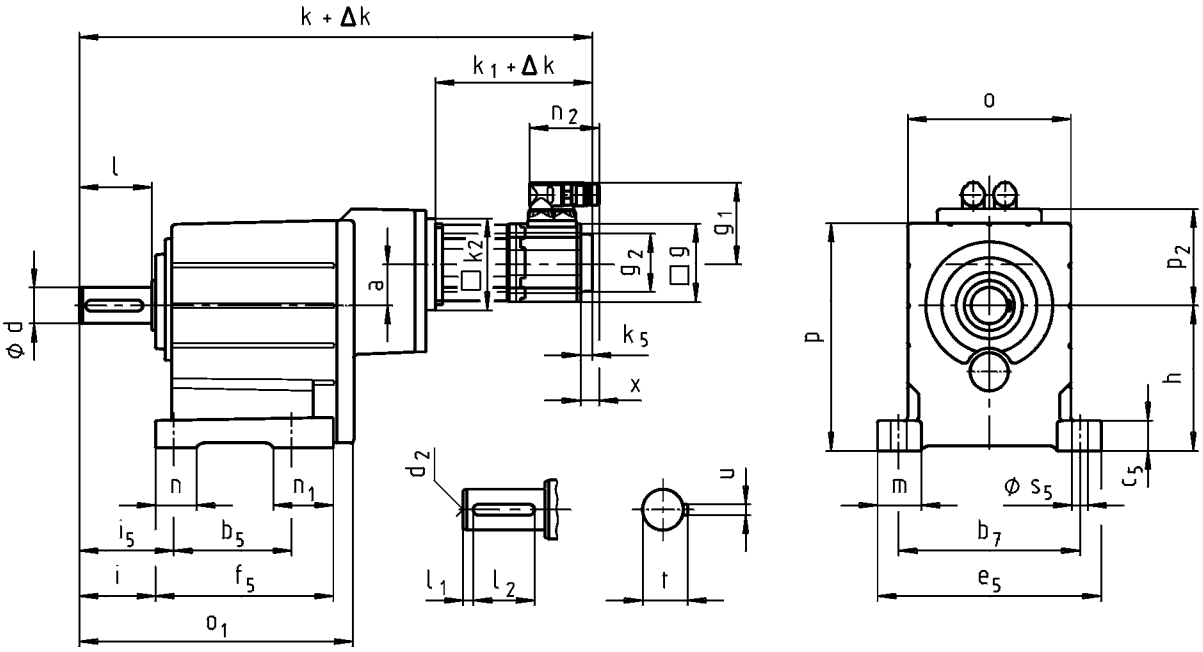
| | o | $o_1$ | p | $p_1$ | a | d | l | $l_1$ | $l_2$ | $d_2$ | u | t |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST03... | 90 | 127 [2] 139 [3] | 100 | 64 | 2 | 14 | 28 | 4 | 20 | M5 | 5 | 16 |
| GST04... | 100 | 174 | 129 | 77 | 0 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 |
| GST05... | 115 | 214 | 156 | 98 | 1 | 25 | 50 | 4 | 40 | M10 | 8 | 28 |
| GST06... | 145 | 243 | 194 | 121 | 2 | 30 | 60 | 6 | 45 | | | 33 |
| GST07... | 180 | 302 | 245 | 155 | 3 | 40 | 80 | 7 | 63 | M16 | 12 | 43 |
| GST09... | 222 | 370 | 304 | 194 | 4 | 50 | 100 | 8 | 80 | | 14 | 53.5 |
| GST11... | 270 | 433 | 378 | 243 | | 60 | 120 | | 100 | M20 | 18 | 64 |
| GST14... | 328 | 533 | 470 | 306 | 6 | 80 | 160 | 15 | 125 | | 22 | 85 |

| | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ | | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | j7 | | | | | 4x90° | | | j7 | | | | | 4x90° |
| GST03... | 120 | 80 | 10 | 100 | 3 | 28 [2] 40 [3] | 7 | GST06... | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 |
| | 140 | 95 | | 115 | | | 9 | | 200 | 130 | | 165 | | 80 | 11 |
| | 160 | 110 | | 130 | 3.5 | | | GST07... | | | 14 | | | | |
| GST04... | 120 | 80 | | 100 | 3 | 40 | 7 | | 250 | 180 | 15 | 215 | 4 | 100 | 13.5 |
| | 140 | 95 | | 115 | | | 9 | GST09... | | | 16 | | | | |
| | 160 | 110 | | 130 | 3.5 | | | | 300 | 230 | 18 | 265 | | 120 | 14 |
| GST05... | 120 | 80 | | 100 | 3 | 50 | 7 | GST11... | | | 20 | | | | |
| | 140 | 95 | | 115 | | | 9 | | 350 | 250 | 22 | 300 | 5 | 160 | 18 |
| | 160 | 110 | | 130 | 3.5 | | | GST14... | | | | | | | |
| | 200 | 130 | 12 | 165 | | | 11 | | 400 | 300 | 24 | 350 | | | |

d ≤ 50 mm: k6; d > 50 mm: m6

[2] d=14

[3] d=20

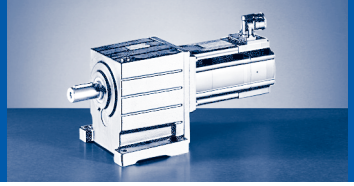



## GST□□-3S VBR ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 425 | 455 | 485 | 478 | 498 | 518 | 558 | | | | | | | |
| GST06... | k | 468 | 498 | 528 | 521 | 541 | 561 | 601 | | | | | | | |
| GST07... | k | 535 | 565 | 595 | 588 | 608 | 628 | 668 | 605 | | 645 | | | 685 | |
| GST09... | k | 616 | 646 | 676 | 669 | 689 | 709 | 749 | 686 | | 726 | | | 766 | |
| GST11... | k | | | | 745 | 765 | 785 | 825 | 762 | | 802 | | | 842 | |
| GST14... | k | | | | | | | | 886 | | 926 | | | 966 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST07: 12DC20 ... 12LC41



## GST□□-3S VBR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 701 | | 741 | | 781 | | 821 | | | | | | | |
| GST11... | k | 777 | | 817 | | 857 | | 897 | | 816 | | 856 | | 916 | |
| GST14... | k | 901 | | 941 | | 981 | | 1021 | | 940 | | 980 | | 1040 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

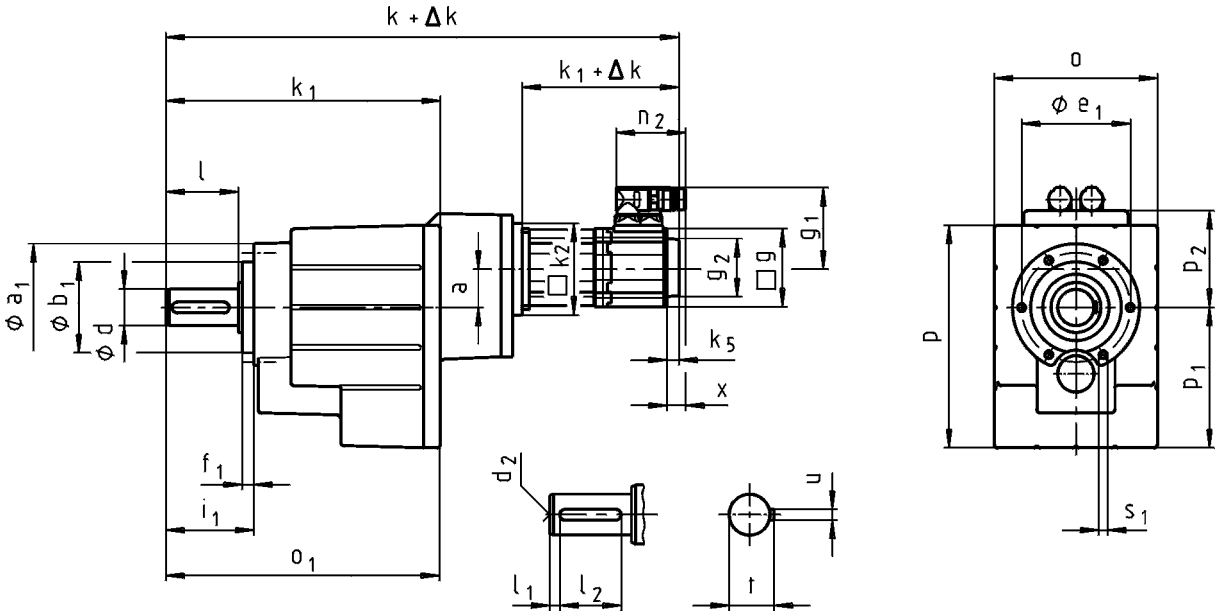
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-3S VBR

| | o | $o_1$ | p | $p_2$ | h | a |
|---|---|---|---|---|---|---|
| **GST05...** | 115 | 208 | 159 | 87 | 100 | 35 |
| **GST06...** | 145 | 240 | 198 | | 125 | 34 |
| **GST07...** | 180 | 302 | 251 | 103 | 160 | 42 |
| **GST09...** | 222 | 370 | 311 | 129 | 200 | 52 |
| **GST11...** | 270 | 433 | 385 | 162 | 250 | 66 |
| **GST14...** | 328 | 533 | 479 | 200 | 315 | 83 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GST05...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 33 | 26 | 49 | 11 |
| **GST06...** | 30 | 60 | 6 | 45 | | | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| **GST07...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 49 | 45 | 66 | 18 |
| **GST09...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | |
| **GST11...** | 60 | 120 | | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| **GST14...** | 80 | 160 | 15 | 125 | | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 |

d ≤ 50 mm: k6; d > 50 mm: m6

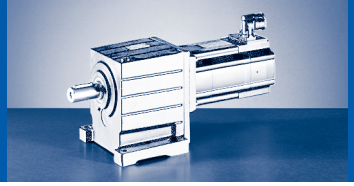



## GST□□-3S VCR ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 425 | 455 | 485 | 478 | 498 | 518 | 558 | | | | | | | |
| GST06... | k | 468 | 498 | 528 | 521 | 541 | 561 | 601 | | | | | | | |
| GST07... | k | 535 | 565 | 595 | 588 | 608 | 628 | 668 | 605 | | 645 | | | 685 | |
| GST09... | k | 616 | 646 | 676 | 669 | 689 | 709 | 749 | 686 | | 726 | | | 766 | |
| GST11... | k | | | | 745 | 765 | 785 | 825 | 762 | | 802 | | | 842 | |
| GST14... | k | | | | | | | | 886 | | 926 | | | 966 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST07: 12DC20 ... 12LC41



## GST□□-3S VCR ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 701 | | 741 | | 781 | | 821 | | | | | | | |
| GST11... | k | 777 | | 817 | | 857 | | 897 | | 816 | | 856 | | 916 | |
| GST14... | k | 901 | | 941 | | 981 | | 1021 | | 940 | | 980 | | 1040 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

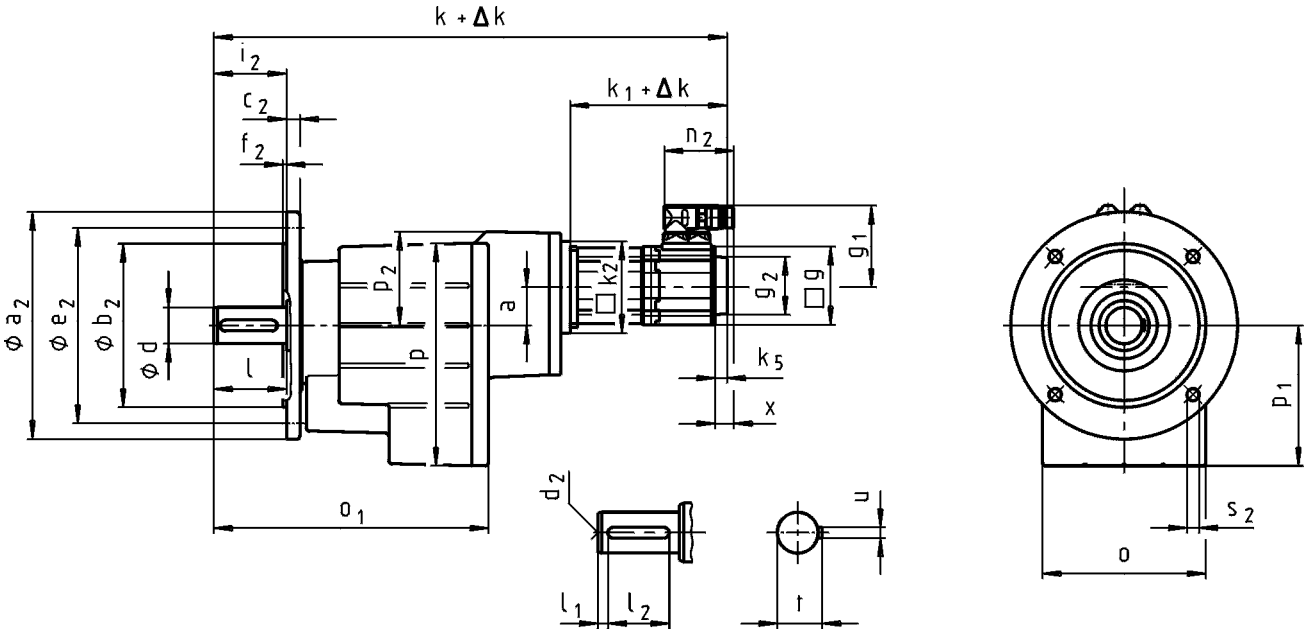
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-3S VCR

| | o | $o_1$ | p | $p_1$ | $p_2$ | a |
|---|---|---|---|---|---|---|
| | | | | | | |
| GST05... | 115 | 208 | 156 | 98 | 87 | 35 |
| GST06... | 145 | 240 | 194 | 121 | | 34 |
| GST07... | 180 | 302 | 245 | 155 | 103 | 42 |
| GST09... | 222 | 370 | 304 | 194 | 129 | 52 |
| GST11... | 270 | 433 | 378 | 243 | 162 | 66 |
| GST14... | 328 | 533 | 470 | 306 | 200 | 83 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| GST05... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| GST06... | 30 | 60 | 6 | 45 | | | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| GST07... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 |
| GST09... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| GST11... | 60 | 120 | | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| GST14... | 80 | 160 | 15 | 125 | | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 |

d ≤ 50 mm: k6; d > 50 mm: m6

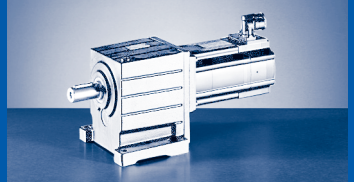



## GST□□-3S VCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 425 | 455 | 485 | 478 | 498 | 518 | 558 | | | | | | | |
| GST06... | k | 468 | 498 | 528 | 521 | 541 | 561 | 601 | | | | | | | |
| GST07... | k | 535 | 565 | 595 | 588 | 608 | 628 | 668 | 605 | | 645 | | | 685 | |
| GST09... | k | 616 | 646 | 676 | 669 | 689 | 709 | 749 | 686 | | 726 | | | 766 | |
| GST11... | k | | | | 745 | 765 | 785 | 825 | 762 | | 802 | | | 842 | |
| GST14... | k | | | | | | | | 886 | | 926 | | | 966 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GST07: 12DC20 ... 12LC41



## GST□□-3S VCK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 701 | | 741 | | 781 | | 821 | | | | | | | |
| GST11... | k | 777 | | 817 | | 857 | | 897 | | 816 | | 856 | | 916 | |
| GST14... | k | 901 | | 941 | | 981 | | 1021 | | 940 | | 980 | | 1040 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

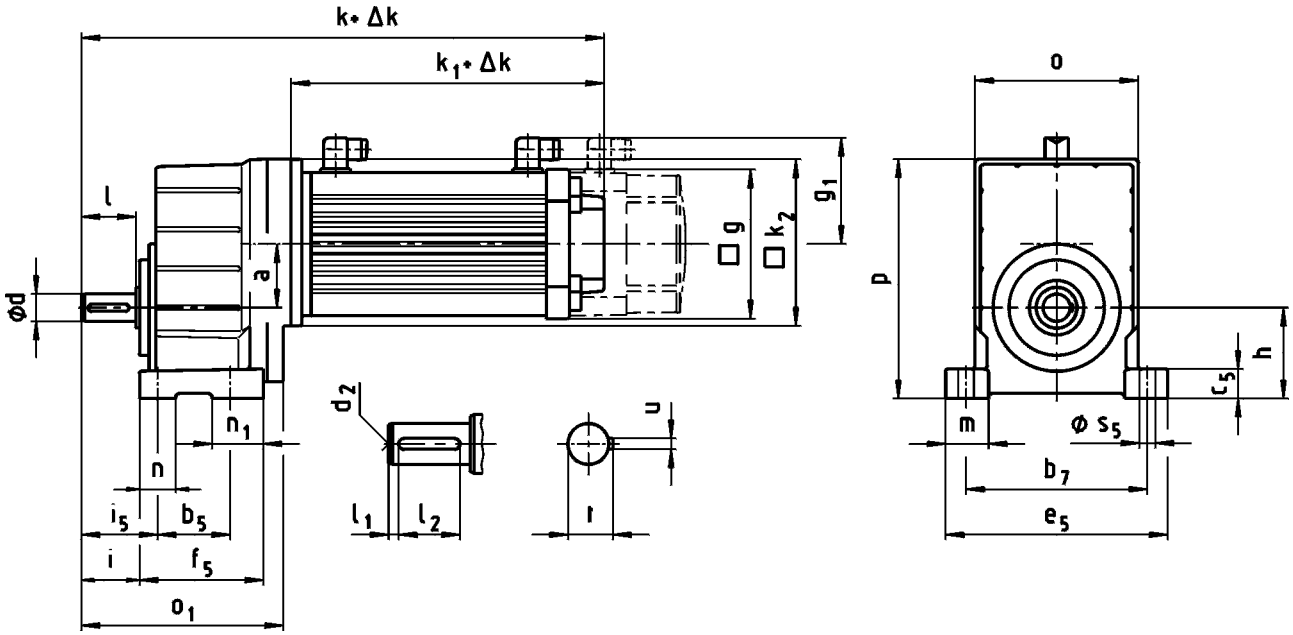
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GST□□-3S VCK

| | o | $o_1$ | p | $p_1$ | $p_2$ | a |
|---|---|---|---|---|---|---|
| GST05... | 115 | 208 | 156 | 98 | 87 | 35 |
| GST06... | 145 | 240 | 194 | 121 | | 34 |
| GST07... | 180 | 302 | 245 | 155 | 103 | 42 |
| GST09... | 222 | 370 | 304 | 194 | 129 | 52 |
| GST11... | 270 | 433 | 378 | 243 | 162 | 66 |
| GST14... | 328 | 533 | 470 | 306 | 200 | 83 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | 4x90° |
| GST05... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 50 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| | | | | | | | | 200 | 130 | 12 | 165 | | | 11 |
| GST06... | 30 | 60 | 6 | 45 | | | 33 | 160 | 110 | | 130 | | 60 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| GST07... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | | | 14 | | | 80 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 13.5 |
| GST09... | 50 | 100 | 8 | 80 | | 14 | 53.5 | | | 16 | | | 100 | |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |
| GST11... | 60 | 120 | | 100 | M20 | 18 | 64 | | | | | | 120 | 14 |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 |
| GST14... | 80 | 160 | 15 | 125 | | 22 | 85 | | | 22 | | | 160 | |
| | | | | | | | | 400 | 300 | 24 | 350 | | | |

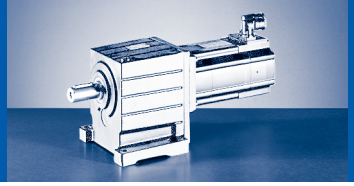
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-1A VBR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 407 | 415 | 483 | | | | | | |
| GST05... | k | 428 | 436 | 504 | 486 | | 548 | | | |
| GST06... | k | 451 | 459 | 527 | 509 | | 571 | | 548 | |
| GST07... | k | 480 | 488 | 556 | 538 | | 600 | | 577 | |
| GST09... | k | | | | 581 | | 643 | | 620 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-1A VBR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 637 | | | | | | | | | |
| GST07... | k | 666 | | 646 | | 743 | | 724 | | 820 | |
| GST09... | k | 709 | | 689 | | 786 | | 767 | | 863 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

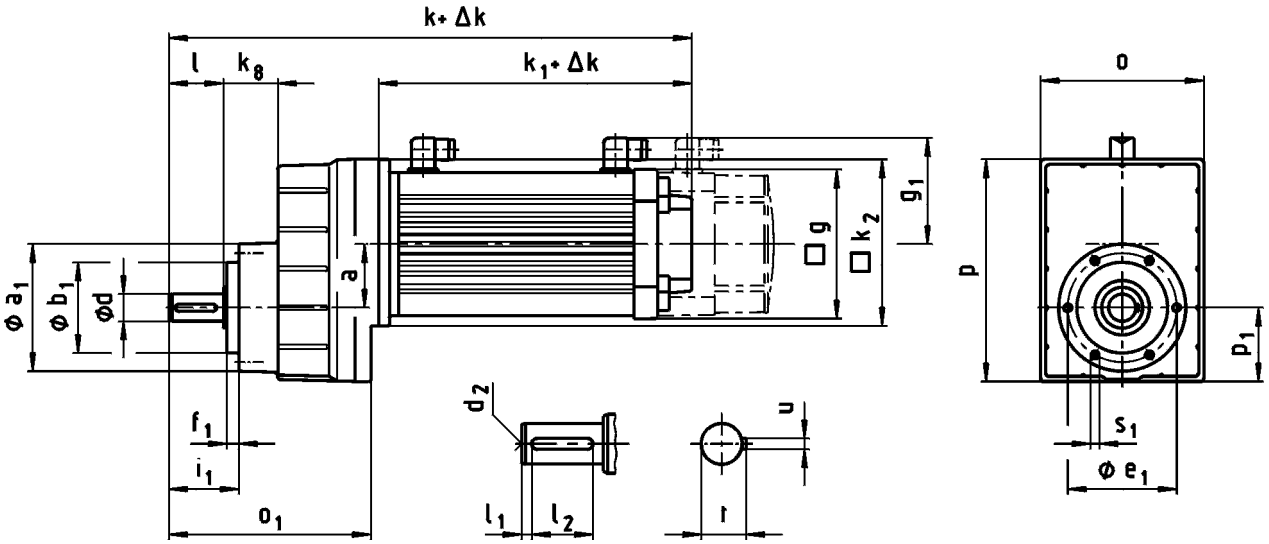
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-1A VBR

| | o | $o_1$ | p | h | a |
|---|---|---|---|---|---|
| GST04... | 100 | 134 | 138 | 50 | 36 |
| GST05... | 115 | 165 | 168 | 63 | 45 |
| GST06... | 145 | 191 | 211 | 80 | 56 |
| GST07... | 180 | 223 | 264 | 100 | 70 |
| GST09... | 222 | 271 | 329 | 125 | 89 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 |
| GST05... | 20 | 40 | | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 |
| GST06... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 |
| GST07... | 30 | 60 | 7.5 | 45 | | | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 48 | 40 | 57 | 18 |
| GST09... | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 51 | 45 | 56 | |

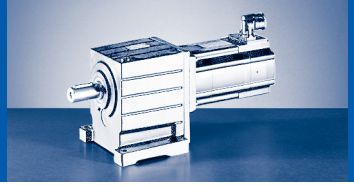
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-1A VCR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 407 | 415 | 483 | | | | | | |
| GST05... | k | 428 | 436 | 504 | 486 | | 548 | | | |
| GST06... | k | 451 | 459 | 527 | 509 | | 571 | | 548 | |
| GST07... | k | 480 | 488 | 556 | 538 | | 600 | | 577 | |
| GST09... | k | | | | 581 | | 643 | | 620 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-1A VCR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 637 | | | | | | | | | |
| GST07... | k | 666 | | 646 | | 743 | | 724 | | 820 | |
| GST09... | k | 709 | | 689 | | 786 | | 767 | | 863 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | 505 | | | 479 | 575 | | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

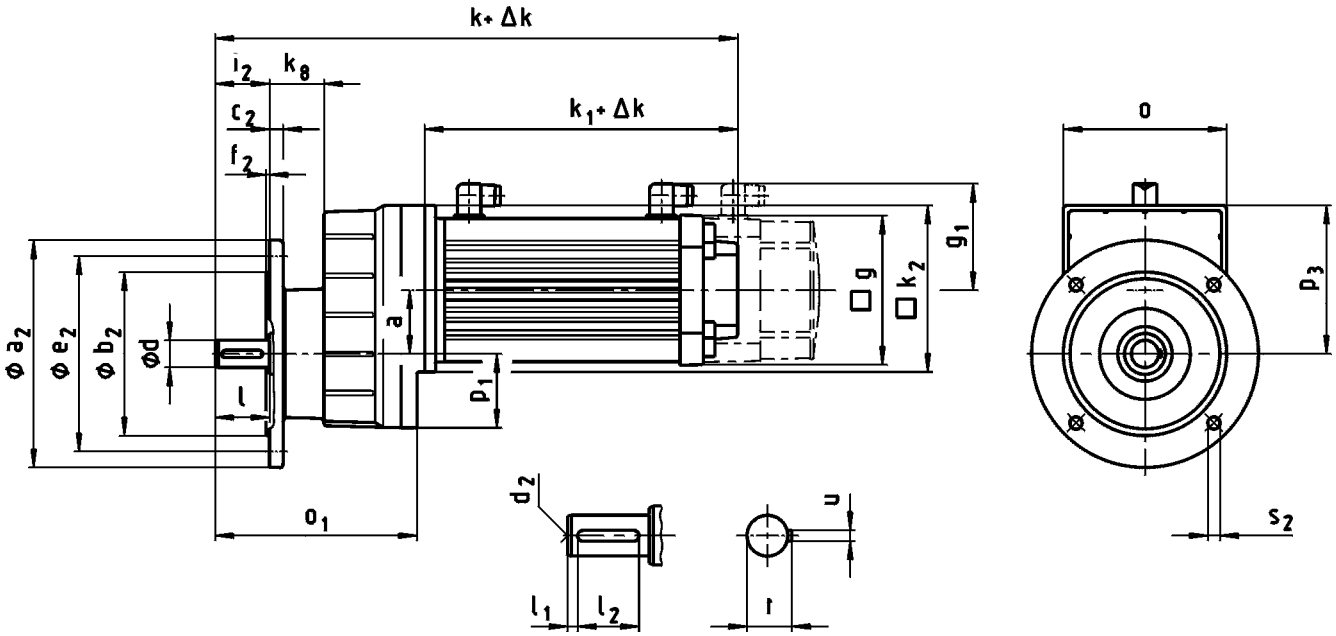
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-1A VCR

| | o | $o_1$ | p | $p_1$ | a | $k_8$ |
|---|---|---|---|---|---|---|
| **GST04...** | 100 | 134 | 129 | 41 | 36 | 35 |
| **GST05...** | 115 | 165 | 156 | 51 | 45 | 43 |
| **GST06...** | 145 | 191 | 194 | 63 | 56 | 48 |
| **GST07...** | 180 | 223 | 245 | 82 | 70 | 60 |
| **GST09...** | 222 | 271 | 304 | 101 | 89 | 74 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| **GST04...** | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 |
| **GST05...** | 20 | 40 | | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 |
| **GST06...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 |
| **GST07...** | 30 | 60 | 7.5 | 45 | | | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 |
| **GST09...** | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 174 | 120 | 145 | 15 | 100 | M12x20 |

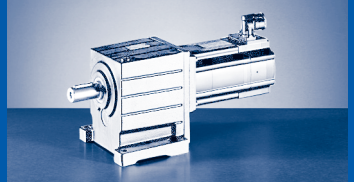
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-1A VCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 407 | 415 | 483 | | | | | | |
| GST05... | k | 428 | 436 | 504 | 486 | | 548 | | | |
| GST06... | k | 451 | 459 | 527 | 509 | | 571 | | 548 | |
| GST07... | k | 480 | 488 | 556 | 538 | | 600 | | 577 | |
| GST09... | k | | | | 581 | | 643 | | 620 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-1A VCK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 637 | | | | | | | | | |
| GST07... | k | 666 | | 646 | | 743 | | 724 | | 820 | |
| GST09... | k | 709 | | 689 | | 786 | | 767 | | 863 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

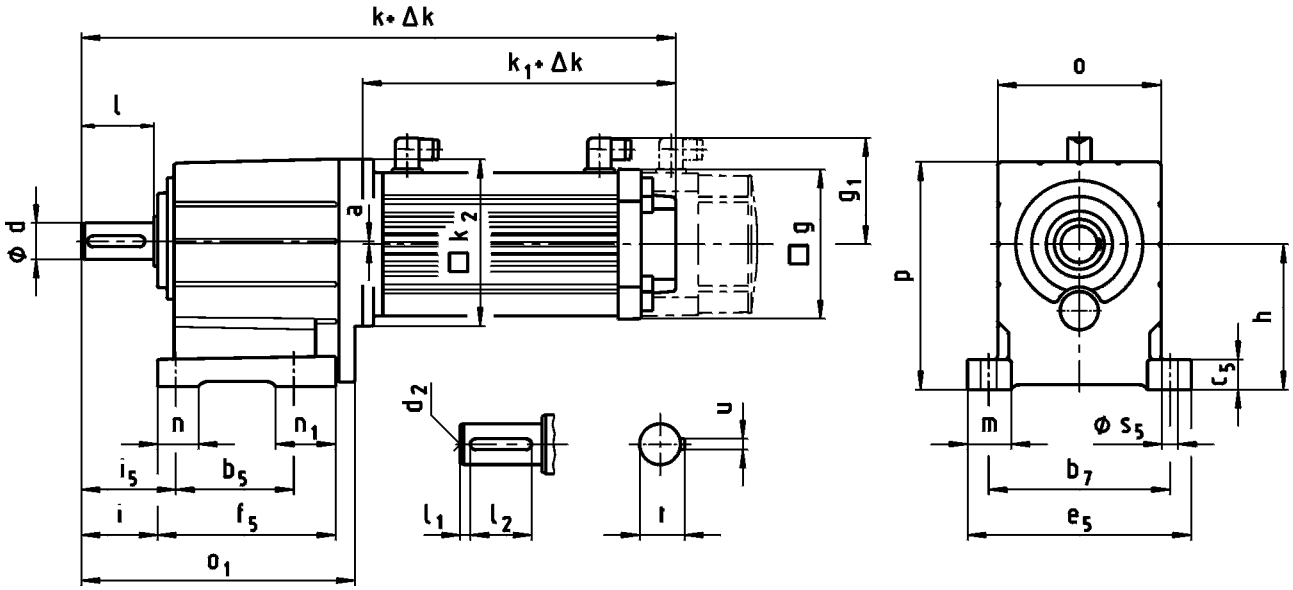
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-1A VCK

| | o | $o_1$ | $p_1$ | $p_3$ | a | $k_8$ |
|---|---|---|---|---|---|---|
| GST04... | 100 | 134 | 41 | 88 | 36 | 35 |
| GST05... | 115 | 165 | 51 | 105 | 45 | 43 |
| GST06... | 145 | 191 | 63 | 131 | 56 | 48 |
| GST07... | 180 | 223 | 82 | 164 | 70 | 60 |
| GST09... | 222 | 271 | 101 | 204 | 89 | 74 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | 4x90° |
| GST04... | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| GST05... | 20 | 40 | | 28 | M6 | 6 | 22.5 | 120 | 80 | | 100 | 3 | 40 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| | | | | | | | | 200 | 130 | 12 | 165 | | | 11 |
| GST06... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | | 130 | | 50 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| GST07... | 30 | 60 | 7.5 | 45 | | | 33 | | | 14 | | | 60 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 13.5 |
| GST09... | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | | | 16 | | | 80 | |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |

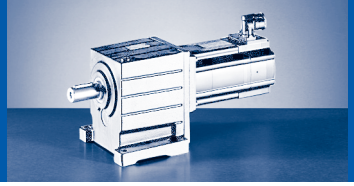
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-2A VBR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 447 | 455 | 523 | | | | | | |
| GST05... | k | 477 | 485 | 553 | 535 | | 597 | | | |
| GST06... | k | 503 | 511 | 579 | 561 | | 623 | | 600 | |
| GST07... | k | 559 | 567 | 635 | 617 | | 679 | | 656 | |
| GST09... | k | | | | 680 | | 742 | | 719 | |
| GST11... | k | | | | 737 | | 799 | | 776 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-2A VBR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 689 | | | | | | | | | |
| GST07... | k | 745 | | 725 | | 822 | | 803 | | 899 | |
| GST09... | k | 808 | | 788 | | 885 | | 866 | | 962 | |
| GST11... | k | 865 | | 845 | | 942 | | 923 | | 1019 | |
| GST14... | k | | | 935 | | 1032 | | 1013 | | 1109 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

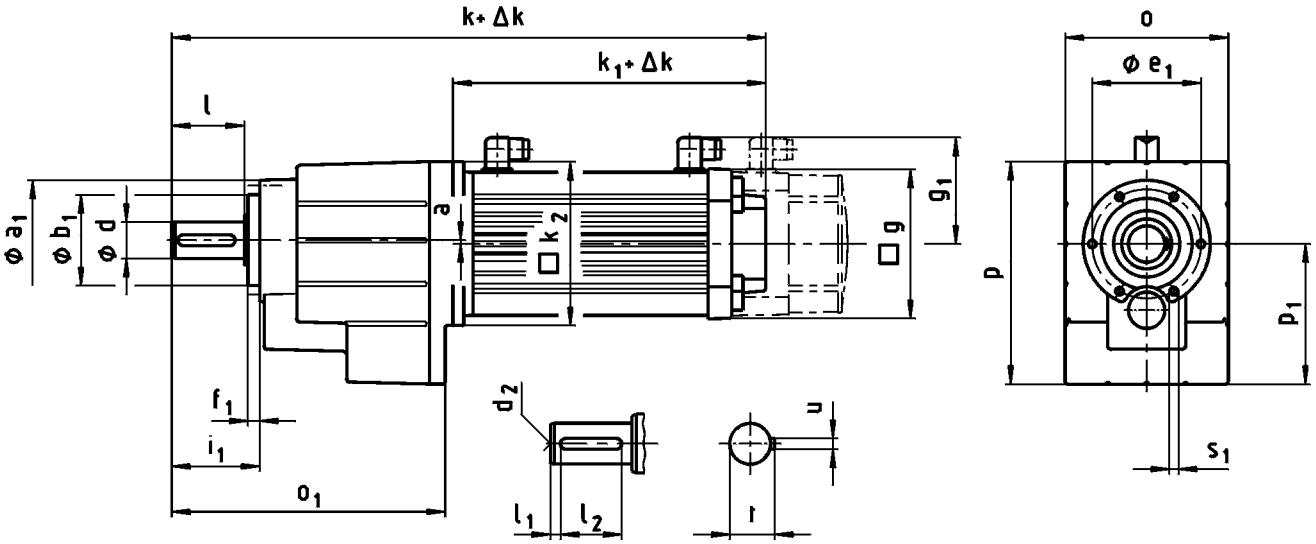
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-2A VBR

| | o | $o_1$ | p | h | a |
|---|---|---|---|---|---|
| GST04... | 100 | 174 | 132 | 80 | 0 |
| GST05... | 115 | 214 | 159 | 100 | 1 |
| GST06... | 145 | 243 | 198 | 125 | 2 |
| GST07... | 180 | 302 | 251 | 160 | 3 |
| GST09... | 222 | 370 | 311 | 200 | 4 |
| GST11... | 270 | 433 | 385 | 250 | |
| GST14... | 328 | 533 | 479 | 315 | 6 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 25 | 20 | 36 | 9 |
| GST05... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 33 | 26 | 49 | 11 |
| GST06... | 30 | 60 | 6 | 45 | | | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| GST07... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 49 | 45 | 66 | 18 |
| GST09... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | |
| GST11... | 60 | 120 | | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| GST14... | 80 | 160 | 15 | 125 | | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 |

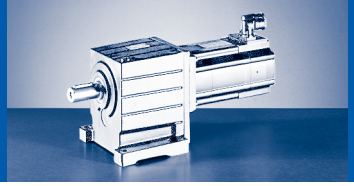
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-2A VCR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 447 | 455 | 523 | | | | | | |
| GST05... | k | 477 | 485 | 553 | 535 | | 597 | | | |
| GST06... | k | 503 | 511 | 579 | 561 | | 623 | | 600 | |
| GST07... | k | 559 | 567 | 635 | 617 | | 679 | | 656 | |
| GST09... | k | | | | 680 | | 742 | | 719 | |
| GST11... | k | | | | 737 | | 799 | | 776 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-2A VCR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 689 | | | | | | | | | |
| GST07... | k | 745 | | 725 | | 822 | | 803 | | 899 | |
| GST09... | k | 808 | | 788 | | 885 | | 866 | | 962 | |
| GST11... | k | 865 | | 845 | | 942 | | 923 | | 1019 | |
| GST14... | k | | | 935 | | 1032 | | 1013 | | 1109 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

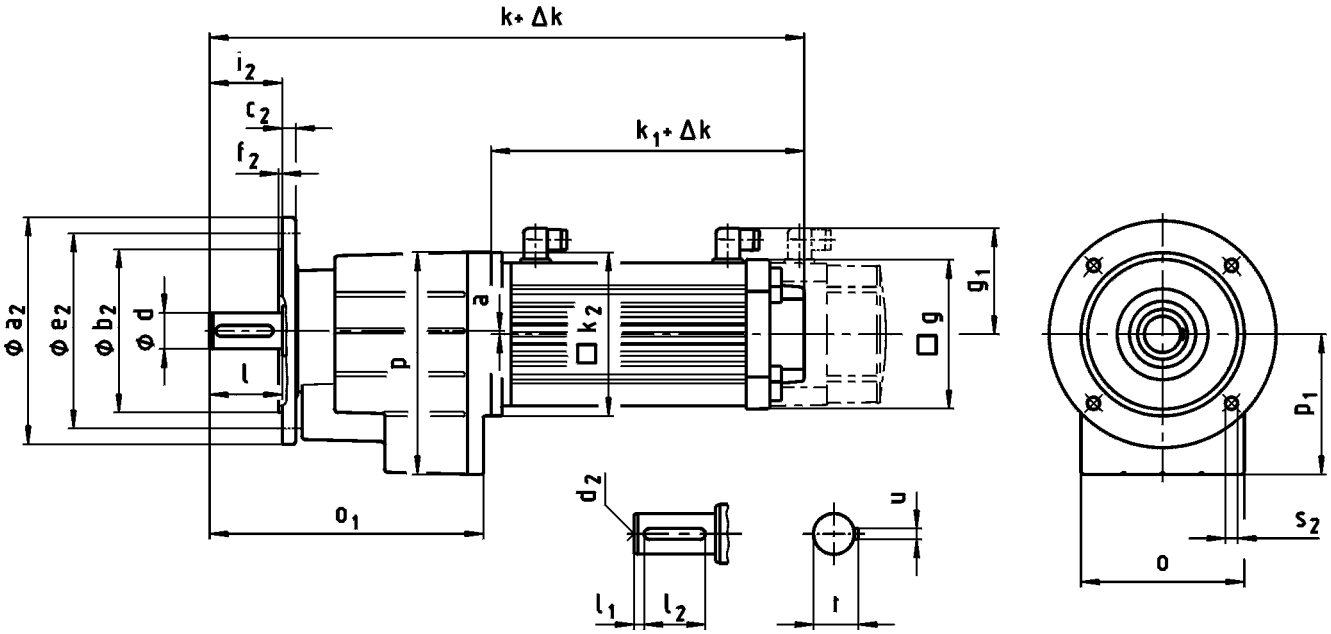
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-2A VCR

| | o | $o_1$ | p | $p_1$ | a |
|---|---|---|---|---|---|
| GST04... | 100 | 174 | 129 | 77 | 0 |
| GST05... | 115 | 214 | 156 | 98 | 1 |
| GST06... | 145 | 243 | 194 | 121 | 2 |
| GST07... | 180 | 302 | 245 | 155 | 3 |
| GST09... | 222 | 370 | 304 | 194 | 4 |
| GST11... | 270 | 433 | 378 | 243 | |
| GST14... | 328 | 533 | 470 | 306 | 6 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| GST04... | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 72 | 48 | 61 | 8 | 51 | M5x10 |
| GST05... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| GST06... | 30 | 60 | 6 | 45 | | | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| GST07... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 |
| GST09... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| GST11... | 60 | 120 | | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| GST14... | 80 | 160 | 15 | 125 | | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 |

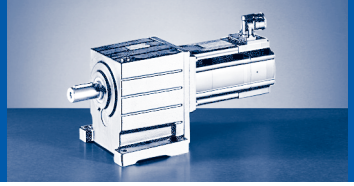
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-2A VCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST04... | k | 447 | 455 | 523 | | | | | | |
| GST05... | k | 477 | 485 | 553 | 535 | | 597 | | | |
| GST06... | k | 503 | 511 | 579 | 561 | | 623 | | 600 | |
| GST07... | k | 559 | 567 | 635 | 617 | | 679 | | 656 | |
| GST09... | k | | | | 680 | | 742 | | 719 | |
| GST11... | k | | | | 737 | | 799 | | 776 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-2A VCK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST06... | k | 689 | | | | | | | | | |
| GST07... | k | 745 | | 725 | | 822 | | 803 | | 899 | |
| GST09... | k | 808 | | 788 | | 885 | | 866 | | 962 | |
| GST11... | k | 865 | | 845 | | 942 | | 923 | | 1019 | |
| GST14... | k | | | 935 | | 1032 | | 1013 | | 1109 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

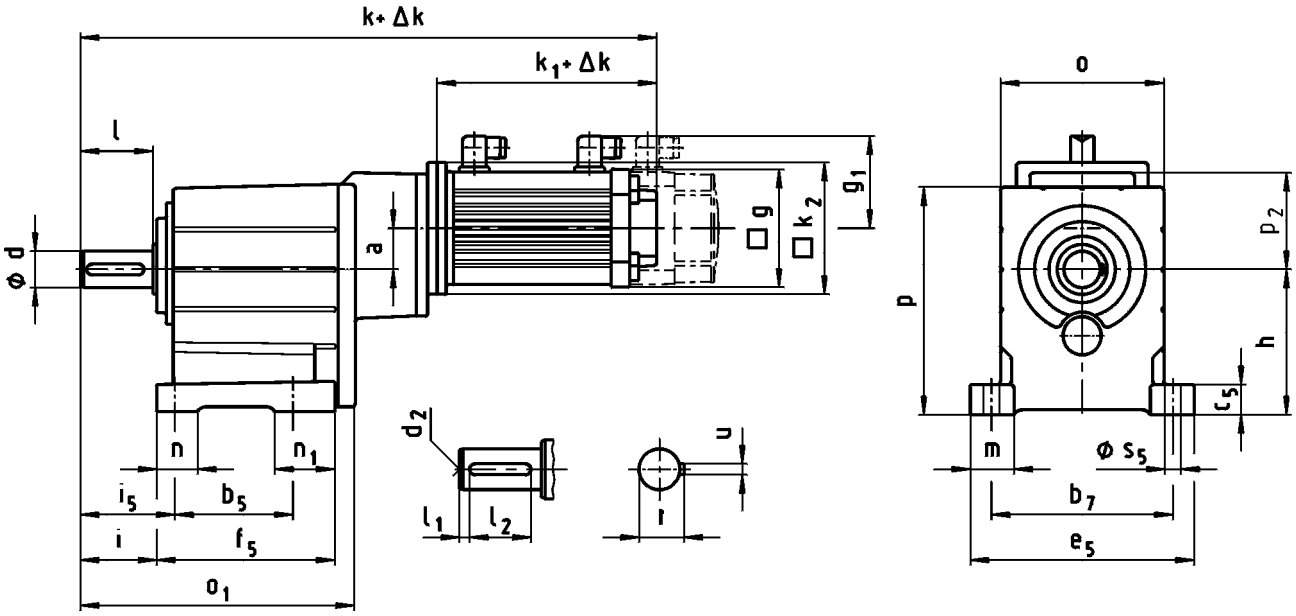
## GST□□-2A VCK

| | o | $o_1$ | p | $p_1$ | a | d | l | $l_1$ | $l_2$ | $d_2$ | u | t |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GST04...** | 100 | 174 | 129 | 77 | 0 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 |
| **GST05...** | 115 | 214 | 156 | 98 | 1 | 25 | 50 | 4 | 40 | M10 | 8 | 28 |
| **GST06...** | 145 | 243 | 194 | 121 | 2 | 30 | 60 | 6 | 45 | | | 33 |
| **GST07...** | 180 | 302 | 245 | 155 | 3 | 40 | 80 | 7 | 63 | M16 | 12 | 43 |
| **GST09...** | 222 | 370 | 304 | 194 | 4 | 50 | 100 | 8 | 80 | | 14 | 53.5 |
| **GST11...** | 270 | 433 | 378 | 243 | | 60 | 120 | | 100 | M20 | 18 | 64 |
| **GST14...** | 328 | 533 | 470 | 306 | 6 | 80 | 160 | 15 | 125 | | 22 | 85 |

| | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|
| | | j7 | | | | | 4x90° |
| **GST04...** | 120 | 80 | 10 | 100 | 3 | 40 | 7 |
| | 140 | 95 | | 115 | | | 9 |
| | 160 | 110 | | 130 | 3.5 | | |
| **GST05...** | 120 | 80 | | 100 | 3 | 50 | 7 |
| | 140 | 95 | | 115 | | | 9 |
| | 160 | 110 | | 130 | 3.5 | | |
| | 200 | 130 | 12 | 165 | | | 11 |
| **GST06...** | 160 | 110 | | 130 | | 60 | 9 |
| | 200 | 130 | | 165 | | | 11 |

| | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|
| | | j7 | | | | | 4x90° |
| **GST07...** | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 |
| | 250 | 180 | 15 | 215 | 4 | 100 | 13.5 |
| **GST09...** | | | 16 | | | | |
| | 300 | 230 | 18 | 265 | | 120 | 14 |
| **GST11...** | 350 | 250 | 20 | 300 | 5 | 160 | 18 |
| **GST14...** | | | 22 | | | | |
| | 400 | 300 | 24 | 350 | | | |

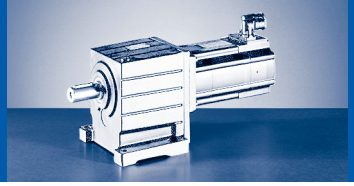
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-3A VBR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 553 | 562 | 630 | | | | | | |
| GST06... | k | 596 | 605 | 673 | | | | | | |
| GST07... | k | 663 | 672 | 740 | 722 | | 784 | | | |
| GST09... | k | 744 | 753 | 821 | 803 | | 865 | | 842 | |
| GST11... | k | 820 | 829 | 897 | 879 | | 941 | | 918 | |
| GST14... | k | | | | 1003 | | 1065 | | 1042 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-3A VBR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 931 | | | | | | | | | |
| GST11... | k | 1007 | | 986 | | 1083 | | 1065 | | 1161 | |
| GST14... | k | 1131 | | 1110 | | 1207 | | 1189 | | 1285 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

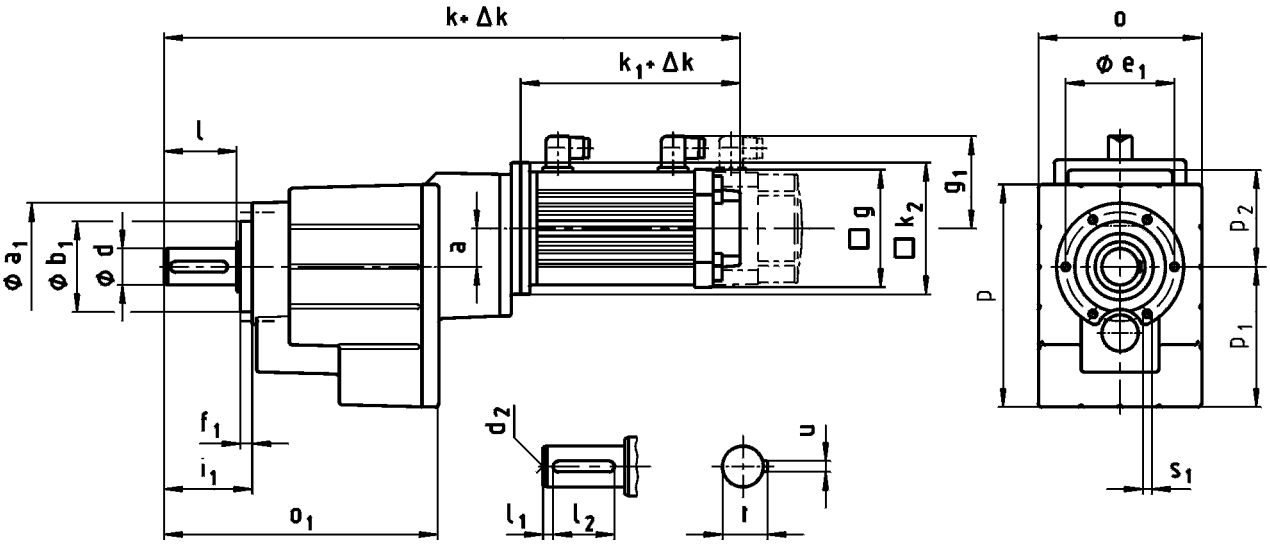
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-3A VBR

| | o | $o_1$ | p | $p_2$ | h | a |
|---|---|---|---|---|---|---|
| **GST05...** | 115 | 208 | 159 | 87 | 100 | 35 |
| **GST06...** | 145 | 240 | 198 | | 125 | 34 |
| **GST07...** | 180 | 302 | 251 | 103 | 160 | 42 |
| **GST09...** | 222 | 370 | 311 | 129 | 200 | 52 |
| **GST11...** | 270 | 433 | 385 | 162 | 250 | 66 |
| **GST14...** | 328 | 533 | 479 | 200 | 315 | 83 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | i | $i_5$ | m | n | $n_1$ | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GST05...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 33 | 26 | 49 | 11 |
| **GST06...** | 30 | 60 | 6 | 45 | | | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| **GST07...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 49 | 45 | 66 | 18 |
| **GST09...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | |
| **GST11...** | 60 | 120 | | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| **GST14...** | 80 | 160 | 15 | 125 | | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 |

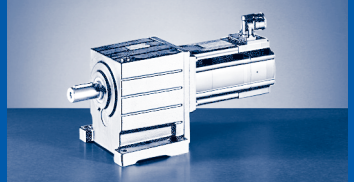
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-3A VCR ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 553 | 562 | 630 | | | | | | |
| GST06... | k | 596 | 605 | 673 | | | | | | |
| GST07... | k | 663 | 672 | 740 | 722 | | 784 | | | |
| GST09... | k | 744 | 753 | 821 | 803 | | 865 | | 842 | |
| GST11... | k | 820 | 829 | 897 | 879 | | 941 | | 918 | |
| GST14... | k | | | | 1003 | | 1065 | | 1042 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-3A VCR ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 931 | | | | | | | | | |
| GST11... | k | 1007 | | 986 | | 1083 | | 1065 | | 1161 | |
| GST14... | k | 1131 | | 1110 | | 1207 | | 1189 | | 1285 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

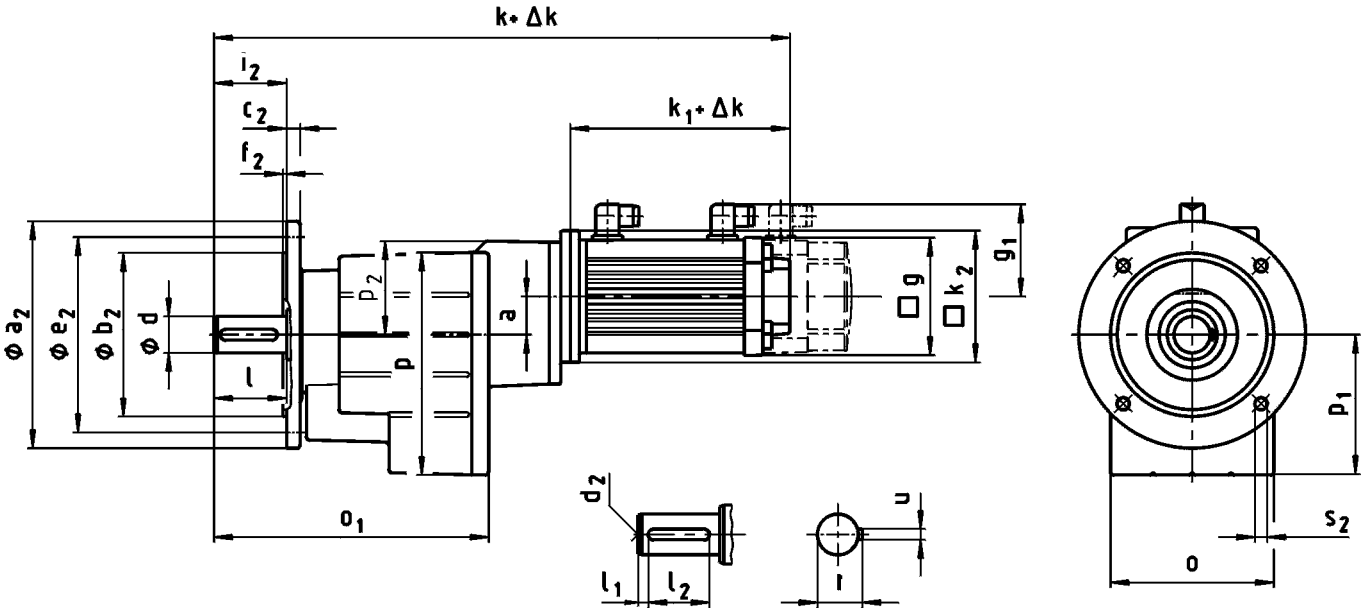
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GST□□-3A VCR

| | o | $o_1$ | p | $p_1$ | $p_2$ | a |
|---|---|---|---|---|---|---|
| **GST05...** | 115 | 208 | 156 | 98 | 87 | 35 |
| **GST06...** | 145 | 240 | 194 | 121 | | 34 |
| **GST07...** | 180 | 302 | 245 | 155 | 103 | 42 |
| **GST09...** | 222 | 370 | 304 | 194 | 129 | 52 |
| **GST11...** | 270 | 433 | 378 | 243 | 162 | 66 |
| **GST14...** | 328 | 533 | 470 | 306 | 200 | 83 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | h7 | | | | 6x60° |
| **GST05...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| **GST06...** | 30 | 60 | 6 | 45 | | | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| **GST07...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 |
| **GST09...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| **GST11...** | 60 | 120 | | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| **GST14...** | 80 | 160 | 15 | 125 | | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 |

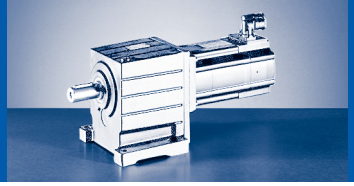
d ≤ 50 mm: k6; d > 50 mm: m6




## GST□□-3A VCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GST05... | k | 553 | 562 | 630 | | | | | | |
| GST06... | k | 596 | 605 | 673 | | | | | | |
| GST07... | k | 663 | 672 | 740 | 722 | | 784 | | | |
| GST09... | k | 744 | 753 | 821 | 803 | | 865 | | 842 | |
| GST11... | k | 820 | 829 | 897 | 879 | | 941 | | 918 | |
| GST14... | k | | | | 1003 | | 1065 | | 1042 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GST□□-3A VCK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GST09... | k | 931 | | | | | | | | | |
| GST11... | k | 1007 | | 986 | | 1083 | | 1065 | | 1161 | |
| GST14... | k | 1131 | | 1110 | | 1207 | | 1189 | | 1285 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

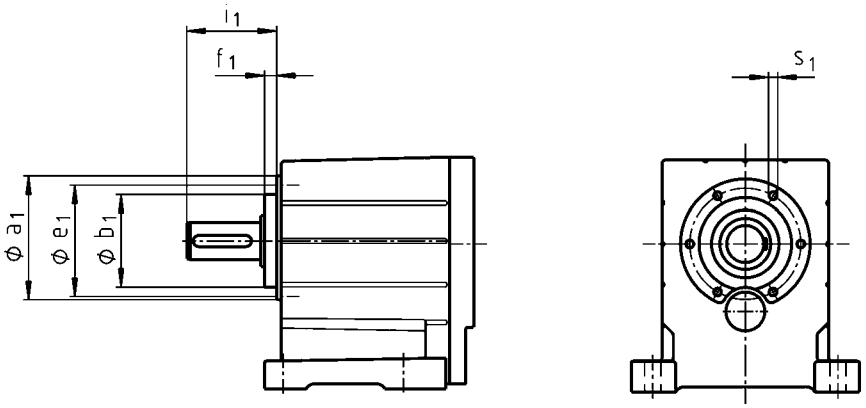
## GST□□-3A VCK

| | o | $o_1$ | p | $p_1$ | $p_2$ | a |
|---|---|---|---|---|---|---|
| **GST05...** | 115 | 208 | 156 | 98 | 87 | 35 |
| **GST06...** | 145 | 240 | 194 | 121 | | 34 |
| **GST07...** | 180 | 302 | 245 | 155 | 103 | 42 |
| **GST09...** | 222 | 370 | 304 | 194 | 129 | 52 |
| **GST11...** | 270 | 433 | 378 | 243 | 162 | 66 |
| **GST14...** | 328 | 533 | 470 | 306 | 200 | 83 |

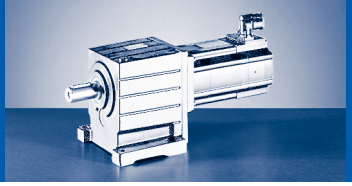
| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | 4x90° |
| **GST05...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 50 | 7 |
| | | | | | | | | 140 | 95 | | 115 | | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | |
| | | | | | | | | 200 | 130 | 12 | 165 | | | 11 |
| **GST06...** | 30 | 60 | 6 | 45 | | | 33 | 160 | 110 | | 130 | | 60 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| **GST07...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | | | 14 | | | 80 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 13.5 |
| **GST09...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | | | 16 | | | 100 | |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |
| **GST11...** | 60 | 120 | | 100 | M20 | 18 | 64 | | | | | | 120 | 14 |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 |
| **GST14...** | 80 | 160 | 15 | 125 | | 22 | 85 | | | 22 | | | 160 | |
| | | | | | | | | 400 | 300 | 24 | 350 | | | |

d ≤ 50 mm: k6; d > 50 mm: m6

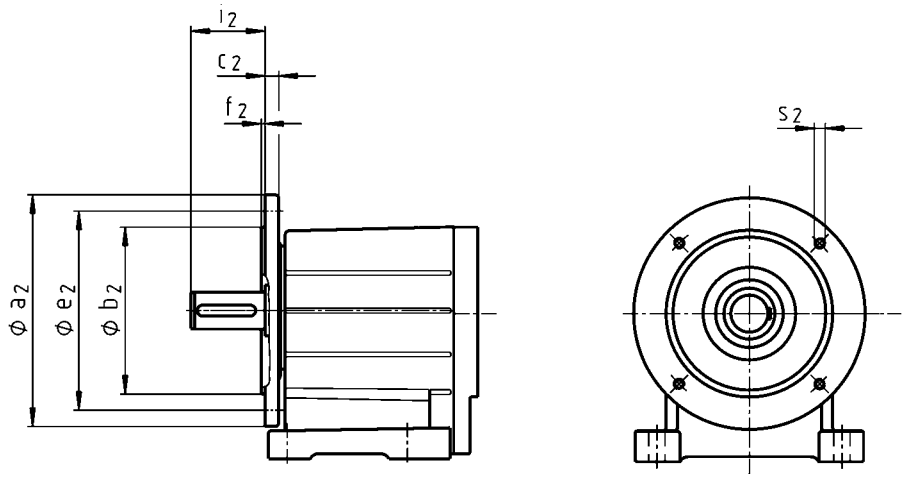
## GST□□-2A / S VAR
## GST□□-3A / S VAR



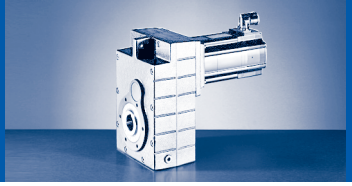

| | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|
| | | h7 | | | | 6x60° |
| **GST04...** | 72 | 48 | 61 | 8 | 51 | M5x10 |
| **GST05...** | 88 | 58 | 74 | 9 | 62 | M6x12 |
| **GST06...** | 109 | 70 | 90 | 10 | 74 | M8x14 |
| **GST07...** | 140 | 100 | 120 | 13 | 97 | M10x18 |
| **GST09...** | 174 | 120 | 145 | 15 | 120 | M12x20 |
| **GST11...** | 215 | 150 | 185 | 18 | 143 | M16x26 |
| **GST14...** | 265 | 195 | 230 | 22 | 187 | M20x34 |



## GST□□-2A / S VAL
## GST□□-3A / S VAL

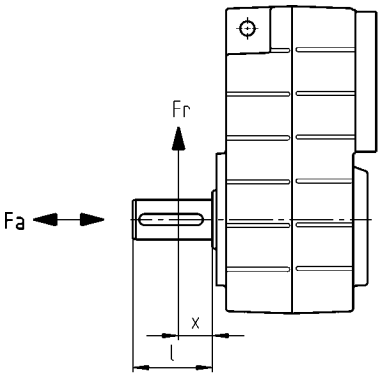



| | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|
| | | j7 | | | | | 4x90° |
| GST04... | 120 | 80 | 10 | 100 | 3 | 40 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| GST05... | 120 | 80 | | 100 | | 50 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| | 160 | 110 | | 130 | 3.5 | | |
| GST06... | | | 12 | | | 60 | |
| | 200 | 130 | | 165 | | | M10 |
| GST07... | | | 14 | | | 80 | |
| | 250 | 180 | 15 | 215 | 4 | | M12 |
| GST09... | | | 16 | | | 100 | |
| | 300 | 230 | 18 | 265 | | | |
| GST11... | | | | | | 120 | |
| | 350 | 250 | 20 | 300 | 5 | | M16 |
| GST14... | | | 22 | | | 160 | |
| | 400 | 300 | 24 | 350 | | | |

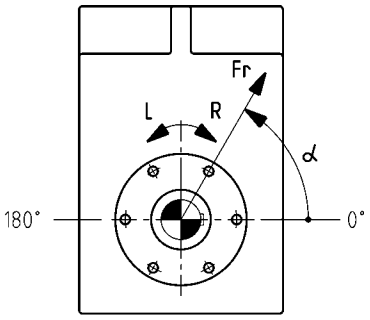


**Zulässige Radialkraft**
$Fr_{zul} = \min(f_w \times f_\alpha \times Fr_{Tab} ; f_w \times Fr_{max})$

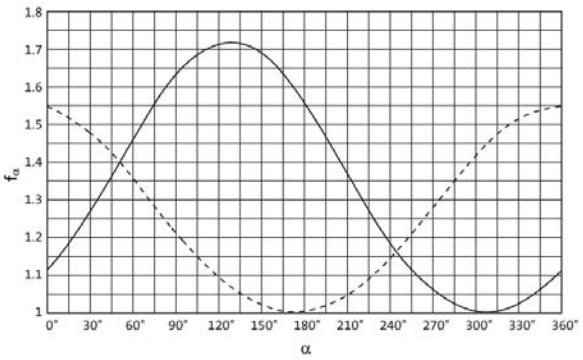
Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung.



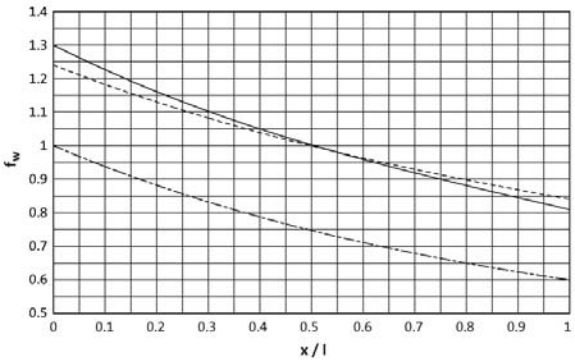

**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0




**Wirkrichtungsfaktor $f_\alpha$ an der Abtriebswelle**

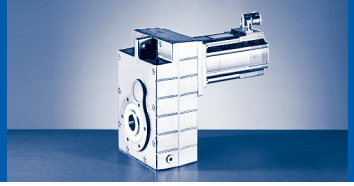



**Lastangriffsbeiwert $f_w$ an der Abtriebswelle**




——— Drehrichtung R
— — — Drehrichtung L

——— Vollwelle (V□R)
— — — Vollwelle mit Flansch (V□K)
— · — Hohlwelle (H□□)

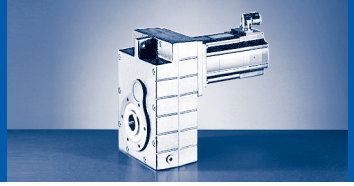


# GFL [N]

| | Vollwelle ohne Flansch (V□R)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GFL04-2 | | GFL05-2/3 | | GFL06-2/3 | | GFL07-2/3 | | GFL09-2/3 [1] | | GFL11-2/3 [1] | | GFL14-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 1650 | 1300 | 1400 | 1600 | 1850 | 2400 | 1650 | 2000 | - | - | - | - | - | - |
| **630** | 2100 | 1700 | 1900 | 2200 | 2500 | 3200 | 2600 | 2700 | - | - | - | - | - | - |
| **400** | 2300 | 2200 | 2400 | 2800 | 3200 | 4000 | 3200 | 3400 | 3800 | 3100 | 5500 | 4700 | 47000 | 25000 |
| **250** | 2700 | 2600 | 2700 | 3600 | 3600 | 5200 | 3600 | 4700 | 4400 | 4200 | 6300 | 6000 | 54000 | 27000 |
| **160** | 3200 | 3200 | 3200 | 4200 | 3900 | 6000 | 3900 | 6000 | 5500 | 5800 | 7300 | 7500 | 62000 | 29000 |
| **100** | 3600 | 4200 | 4000 | 5900 | 5100 | 8500 | 5100 | 8500 | 8000 | 10000 | 11200 | 14000 | 65000 | 32000 |
| **63** | 3600 | 5300 | 4800 | 6600 | 6500 | 10000 | 6500 | 12000 | 10000 | 13500 | 14500 | 19000 | 65000 | 35000 |
| **40** | 3600 | 5500 | 5800 | 6600 | 8400 | 10000 | 8400 | 14000 | 12000 | 17000 | 17400 | 25000 | 65000 | 35000 |
| **25** | 3600 | 5500 | 6200 | 6600 | 9000 | 10000 | 9000 | 14000 | 18000 | 21000 | 20500 | 27000 | 65000 | 35000 |
| **≤ 16** | 3600 | 5500 | 6200 | 6600 | 9000 | 10000 | 9000 | 14000 | 18000 | 21000 | 23000 | 27000 | 65000 | 35000 |
| **$Fr_{max}$** | 3600 | - | 7000 | - | 11000 | - | 11000 | - | 22000 | - | 28000 | - | 65000 | - |

[1] Bei der Ausführung V□R ist eine verstärkte Abtriebswellenlagerung auf Anfrage möglich.

| | Vollwelle mit Flansch (V□K)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GFL04-2 | | GFL05-2/3 | | GFL06-2/3 | | GFL07-2/3 | | GFL09-2/3 | | GFL11-2/3 | | GFL14-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 2300 | 1300 | 2900 | 1800 | 4000 | 2500 | 4000 | 3600 | - | - | - | - | - | - |
| **630** | 2800 | 1700 | 3700 | 2400 | 5000 | 3400 | 5200 | 4800 | - | - | - | - | - | - |
| **400** | 3200 | 2200 | 4300 | 3100 | 6100 | 4300 | 6400 | 6100 | 7800 | 6100 | 12500 | 6800 | 18000 | 6000 |
| **250** | 3700 | 2600 | 5100 | 3900 | 7000 | 5500 | 7400 | 6500 | 9000 | 6500 | 14500 | 8500 | 20000 | 8000 |
| **160** | 4400 | 3200 | 5900 | 4800 | 7800 | 6500 | 8900 | 7000 | 10500 | 7000 | 17000 | 10500 | 23000 | 10000 |
| **100** | 4600 | 4200 | 6800 | 6400 | 9600 | 8500 | 10500 | 9500 | 14000 | 9500 | 21500 | 17000 | 27500 | 13000 |
| **63** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 12000 | 11500 | 15000 | 11500 | 26000 | 22000 | 32000 | 19000 |
| **40** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 13000 | 11500 | 15000 | 11500 | 30000 | 27000 | 38000 | 26000 |
| **25** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 11500 | 30000 | 27000 | 43000 | 35000 |
| **≤ 16** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 11500 | 30000 | 27000 | 43000 | 35000 |
| **$Fr_{max}$** | 4600 | - | 7400 | - | 11000 | - | 16000 | - | 16000 | - | 32000 | - | 46000 | - |

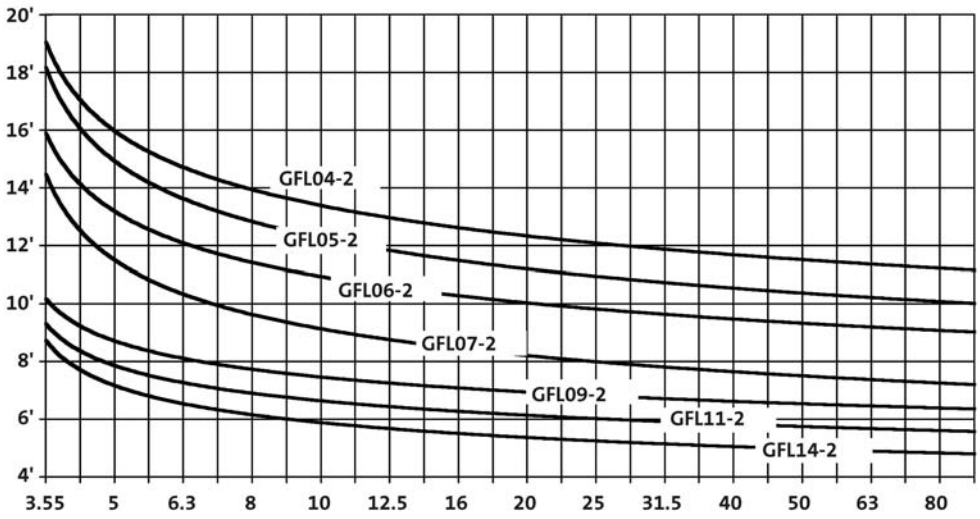


| | Hohlwelle (H□□)<br>Kraftangriff Fr: an Hohlwellenspiegel (x=0)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GFL04-2 | | GFL05-2/3 | | GFL06-2/3 | | GFL07-2/3 | | GFL09-2/3 | | GFL11-2/3 | | GFL14-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 2100 | 1300 | 1800 | 1600 | 2400 | 2400 | 2200 | 2000 | - | - | - | - | - | - |
| **630** | 2700 | 1700 | 2400 | 2200 | 3300 | 3200 | 3400 | 2700 | - | - | - | - | - | - |
| **400** | 2800 | 2200 | 3000 | 2800 | 4300 | 4000 | 4500 | 3400 | 5000 | 3100 | 7300 | 4700 | 8000 | 4000 |
| **250** | 3200 | 2600 | 3400 | 3600 | 4700 | 5200 | 5100 | 4700 | 6000 | 4200 | 8700 | 6000 | 9000 | 5000 |
| **160** | 3800 | 3200 | 4100 | 4200 | 5000 | 6000 | 6400 | 6000 | 7200 | 5800 | 10000 | 7500 | 9500 | 6200 |
| **100** | 4600 | 4200 | 5000 | 5900 | 6600 | 8500 | 7900 | 8500 | 10500 | 10000 | 14200 | 14000 | 11500 | 7500 |
| **63** | 5500 | 5300 | 6000 | 6600 | 8500 | 10000 | 9300 | 12000 | 13000 | 13500 | 19000 | 19000 | 14000 | 11000 |
| **40** | 6300 | 5500 | 7100 | 6600 | 10800 | 10000 | 11500 | 14000 | 15000 | 17000 | 23000 | 25000 | 18000 | 17500 |
| **25** | 7000 | 5500 | 8000 | 6600 | 12000 | 10000 | 15000 | 14000 | 22000 | 21000 | 27000 | 27000 | 30000 | 31000 |
| **≤ 16** | 7000 | 5500 | 8000 | 6600 | 12000 | 10000 | 16000 | 14000 | 24000 | 21000 | 30000 | 27000 | 45000 | 35000 |
| **$Fr_{max}$** | 7000 | - | 10000 | - | 15000 | - | 20000 | - | 30000 | - | 38000 | - | 56000 | - |

► Bei Hohlwelle mit Schrumpfscheibe (S□□) sind weder Radial- noch Axialkräfte zulässig.

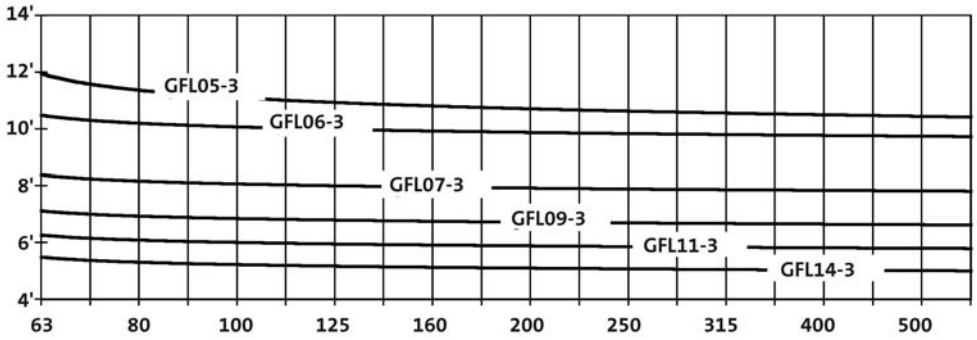
## Verdrehspiel am Abtrieb in Winkelminuten

**GFL04...14-2**

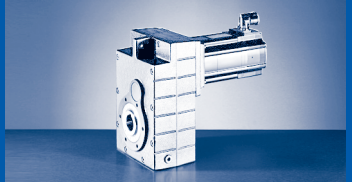



Übersetzung

**GFL05...14-3**

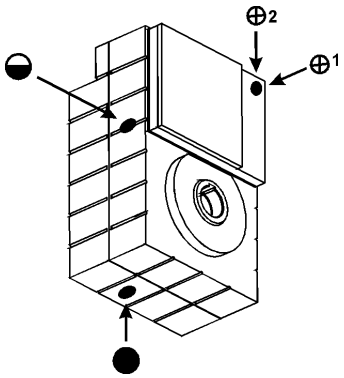
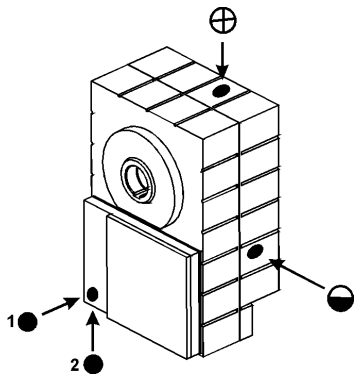
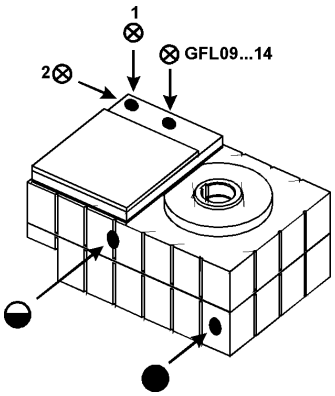


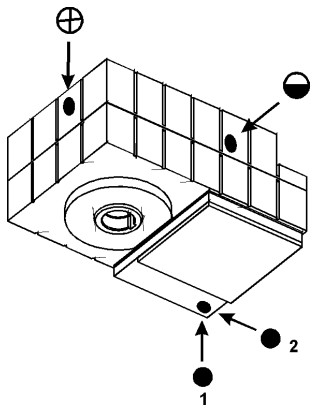
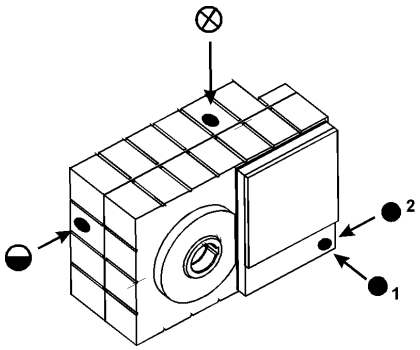
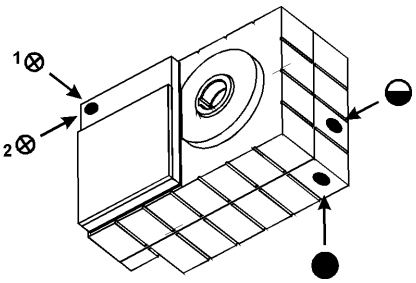

Übersetzung



## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

### GFL05...14-2

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

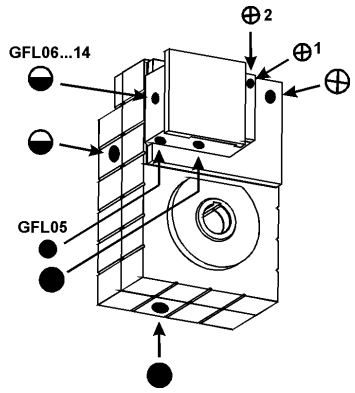
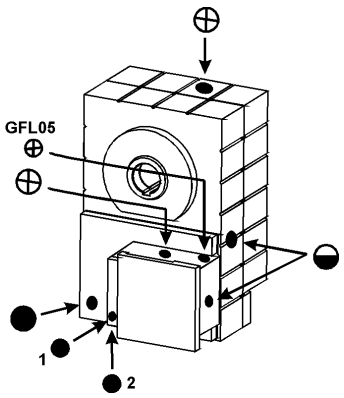
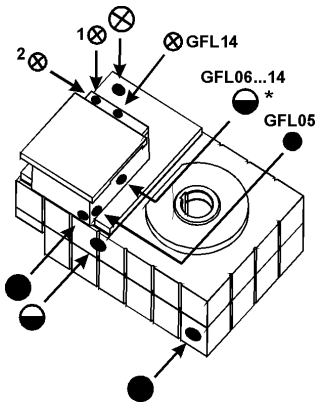
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

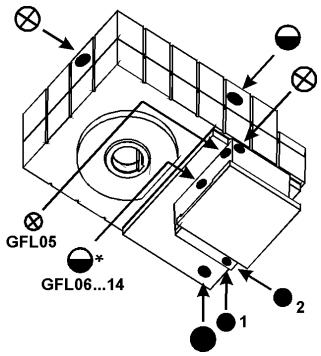
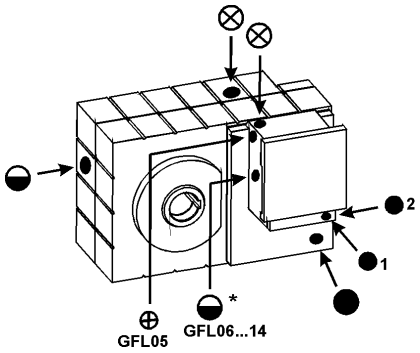
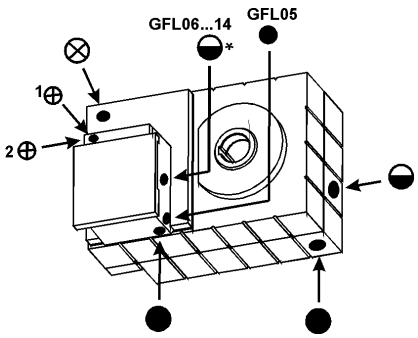
⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GFL05-2A □□□ 14LC□□

## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

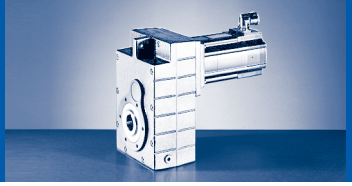
### GFL05...14-3

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

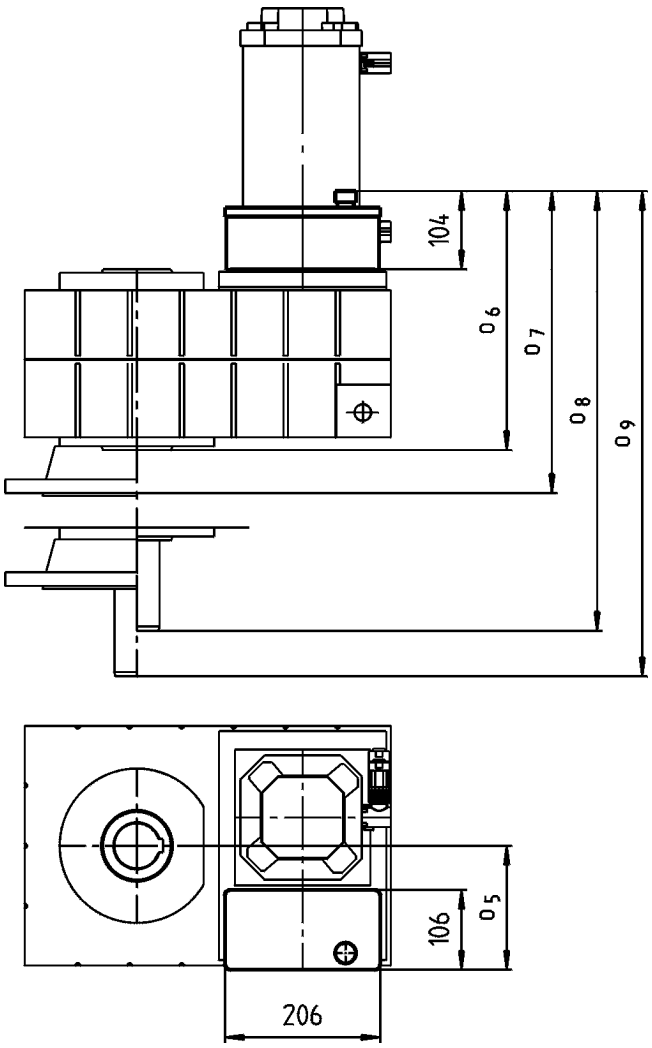
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GFL07-3A □□□ 14LC□□



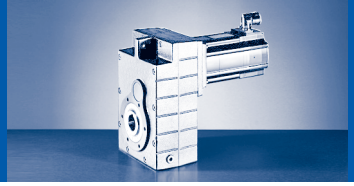
## Ausgleichsbehälter für Einbaulage C




| GFL□□-2A... | | 14LC□□ [1] | 17NC□□ [1] | 19SC□□ [1] | 21XC□□ [1] |
|---|---|---|---|---|---|
| GFL09... | $o_5$ | 165 | | 187 | 204 |
| | $o_6$ | 344 | | | |
| | $o_7$ | 405 | | | |
| | $o_8$ | 464 | | | |
| | $o_9$ | 525 | | | |
| GFL11... | $o_5$ | 154 | | 176 | 200 |
| | $o_6$ | 387 | | 391 | |
| | $o_7$ | 448 | | 452 | |
| | $o_8$ | 547 | | 551 | |
| | $o_9$ | 608 | | 612 | |
| GFL14... | $o_5$ | | | 181 | 211 |
| | $o_6$ | | | 446 | |
| | $o_7$ | | | 507 | |
| | $o_8$ | | | 646 | |
| | $o_9$ | | | 707 | |

| GFL□□-2S... | | 12□C□□ | 14□C□□ | 19□C□□ |
|---|---|---|---|---|
| GFL09... | $o_5$ | 165 | | 204 |
| | $o_6$ | 344 | | |
| | $o_7$ | 405 | | |
| | $o_8$ | 464 | | |
| | $o_9$ | 525 | | |
| GFL11... | $o_5$ | 154 | | 200 |
| | $o_6$ | 387 | | 391 |
| | $o_7$ | 448 | | 452 |
| | $o_8$ | 547 | | 551 |
| | $o_9$ | 608 | | 612 |
| GFL14... | $o_5$ | | | 211 |
| | $o_6$ | | | 446 |
| | $o_7$ | | | 507 |
| | $o_8$ | | | 646 |
| | $o_9$ | | | 707 |

[1] Stecker- / Klemmenkastenlage 3 ist nicht zulässig.



# GFL [kg]

## GFL□□-2S HCR / HDR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | 9 | | 10 | 12 | 13 | 14 | 16 | | | | | | | |
| GFL05... | 21 | | 22 | 24 | | 25 | 27 | | | 30 | | | 33 | |
| GFL06... | 35 | 36 | 37 | 38 | 39 | 40 | 42 | 41 | | 44 | | | 47 | |
| GFL07... | | | | 64 | 65 | 66 | 68 | 67 | | 70 | | | 73 | |
| GFL09... | | | | | | | | 115 | | 118 | | | 121 | |

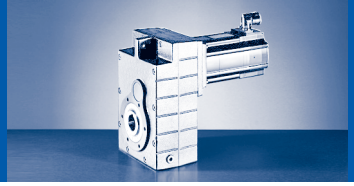
| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | 46 | | 51 | | 56 | | 60 | | | | | | | |
| GFL07... | 73 | | 77 | | 82 | | 87 | | 89 | | 96 | | 106 | |
| GFL09... | 120 | | 125 | | 129 | | 134 | | 136 | | 143 | | 153 | |
| GFL11... | 206 | | 210 | | 215 | | 220 | | 221 | | 228 | | 238 | |
| GFL14... | | | | | | | | | 363 | | 370 | | 380 | |

## GFL□□-3S HCR / HDR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | 23 | | 24 | 26 | 27 | 28 | 30 | | | | | | | |
| GFL06... | 40 | | 41 | 43 | 44 | 45 | 47 | | | | | | | |
| GFL07... | 69 | | 70 | 71 | 72 | 73 | | 75 | | 78 | | | 81 | |
| GFL09... | 121 | | 122 | 123 | 124 | 125 | 127 | 126 | | 129 | | | 133 | |
| GFL11... | | | | 217 | 218 | 219 | 221 | 220 | | 223 | | | 226 | |
| GFL14... | | | | | | | | 377 | | 380 | | | 383 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL07... | | | | | | | | | | | | | | |
| GFL09... | 131 | | 136 | | 141 | | 146 | | | | | | | |
| GFL11... | 225 | | 230 | | 235 | | 239 | | 242 | | 249 | | 259 | |
| GFL14... | 382 | | 387 | | 392 | | 397 | | 399 | | 406 | | 416 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



## GFL□□-2A HCR / HDR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GFL04... | 13 | 17 | 19 | | | | | | |
| GFL05... | 26 | 30 | 32 | 36 | | 38 | | | |
| GFL06... | 40 | 44 | 46 | 50 | | 52 | | 58 | |
| GFL07... | 66 | 70 | 72 | 76 | | 78 | | 84 | |
| GFL09... | | | | 122 | | 124 | | 130 | |
| GFL11... | | | | 208 | | 209 | | 215 | |
| GFL14... | | | | | | | | | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | 61 | | | | | | | | | |
| GFL07... | 86 | | 107 | | 110 | | 124 | | 127 | |
| GFL09... | 133 | | 153 | | 156 | | 171 | | 174 | |
| GFL11... | 218 | | 238 | | 241 | | 254 | | 258 | |
| GFL14... | | | 380 | | 384 | | 395 | | 398 | |

## GFL□□-3A HCR / HDR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GFL05... | 27 | 31 | 33 | | | | | | |
| GFL06... | 44 | 48 | 50 | | | | | | |
| GFL07... | 74 | 78 | 80 | 84 | | 86 | | | |
| GFL09... | 125 | 129 | 131 | 135 | | 137 | | 143 | |
| GFL11... | 219 | 223 | 224 | 228 | | 230 | | 236 | |
| GFL14... | | | | 385 | | 387 | | 393 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | 146 | | | | | | | | | |
| GFL11... | 239 | | 260 | | 263 | | 277 | | 280 | |
| GFL14... | 395 | | 415 | | 419 | | 433 | | 437 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte

## Mehrgewichte Servomotoren MCS

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | | 1.5 | | | | | |
| ...P2 | 3.1 | | | | | | | | | | 4.3 | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.3 | | | | | | | | | | | | | |

## Mehrgewichte Servomotoren MCA

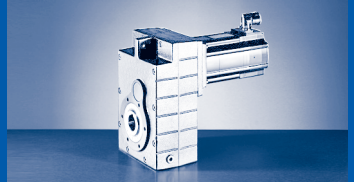
| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | 2.4 | | 4.8 | | | | 5.0 | | | |
| ...P2/P6 | | | | | | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.7 | | 1.0 | | | | 1.1 | | | |

## Mehrgewichte Getriebe

| | Vollwelle | 2. Abtriebswel-lenende | Hohlwelle mit Schrumpfscheibe | Flansch | Fuß |
|---|---|---|---|---|---|
| | V□□ | V□□ | S□□ | □□K | □A□/□B□ |
| **GFL04...** | 0.6 | 0.2 | 0.6 | 2.5 | 1 |
| **GFL05...** | 1 | 0.3 | 0.8 | 4 | 1.5 |
| **GFL06...** | 2.5 | 0.8 | 1 | 7 | 2.5 |
| **GFL07...** | 5 | 1.5 | 1.5 | 11 | 4 |
| **GFL09...** | 8 | 2.7 | 3 | 16 | 7 |
| **GFL11...** | 16 | 6.3 | 5 | 24 | 14 |
| **GFL14...** | 33 | 12 | 11 | 33 | 23 |

Gewichte in [kg]

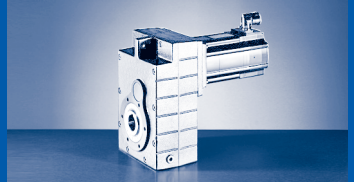


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL04-2 | 3.659 | 2415 | 660 |
| | 5.018 | 2760 | 550 |
| | 5.833 | 2625 | 450 |
| | 6.422 | 2967 | 462 |
| | 7.025 | 3864 | 550 |
| | 8.379 | 2765 | 330 |
| | 9.333 | 2800 | 300 |
| | 10.238 | 3225 | 315 |
| | 11.491 | 3160 | 275 |
| | 12.800 | 3200 | 250 |
| | 14.706 | 3397 | 231 |
| | 16.087 | 4424 | 275 |
| | 17.920 | 4480 | 250 |
| | 20.519 | 4740 | 231 |
| | 22.857 | 4800 | 210 |
| | 25.136 | 4977 | 198 |
| | 28.000 | 5040 | 180 |
| | 31.600 | 5214 | 165 |
| | 35.200 | 5280 | 150 |
| | 40.697 | 5372 | 132 |
| | 45.333 | 5440 | 120 |
| | 51.579 | 6241 | 121 |
| | 57.455 | 6320 | 110 |
| | 64.636 | 6399 | 99 |
| | 72.000 | 6480 | 90 |
| | 85.156 | 6557 | 77 |
| | 94.857 | 6640 | 70 |
| GFL05-2 | 3.333 | 2100 | 630 |
| | 4.571 | 2400 | 525 |
| | 5.133 | 2310 | 450 |
| | 5.667 | 2380 | 420 |
| | 6.400 | 3360 | 525 |
| | 7.040 | 2640 | 375 |
| | 7.771 | 2720 | 350 |
| | 9.010 | 2838 | 315 |
| | 9.946 | 2924 | 294 |
| | 11.360 | 2840 | 250 |
| | 12.800 | 2880 | 225 |
| | 14.538 | 3053 | 210 |
| | 15.904 | 3976 | 250 |
| | 17.920 | 4032 | 225 |
| | 20.286 | 4260 | 210 |
| | 22.857 | 4320 | 189 |
| | 24.850 | 4473 | 180 |
| | 28.000 | 4536 | 162 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL05-2 | 32.344 | 5822 | 180 |
| | 36.444 | 5904 | 162 |
| | 40.233 | 4828 | 120 |
| | 45.333 | 4896 | 108 |
| | 52.067 | 6248 | 120 |
| | 58.667 | 6336 | 108 |
| | 63.190 | 6319 | 100 |
| | 71.200 | 6408 | 90 |
| | 80.763 | 6461 | 80 |
| | 91.000 | 6552 | 72 |
| GFL05-3 | 61.653 | 258944 | 4200 |
| | 78.639 | 277440 | 3528 |
| | 90.123 | 270368 | 3000 |
| | 101.547 | 274176 | 2700 |
| | 114.952 | 289680 | 2520 |
| | 129.524 | 293760 | 2268 |
| | 140.817 | 304164 | 2160 |
| | 158.667 | 308448 | 1944 |
| | 177.027 | 318648 | 1800 |
| | 199.467 | 323136 | 1620 |
| | 227.989 | 328304 | 1440 |
| | 256.889 | 332928 | 1296 |
| | 288.948 | 381412 | 1320 |
| | 325.576 | 386784 | 1188 |
| | 362.100 | 391068 | 1080 |
| | 408.000 | 396576 | 972 |
| | 477.052 | 400724 | 840 |
| | 537.524 | 406368 | 756 |
| GFL06-2 | 3.675 | 2205 | 600 |
| | 5.211 | 2345 | 450 |
| | 5.750 | 2415 | 420 |
| | 6.450 | 2709 | |
| | 7.147 | 2680 | 375 |
| | 8.400 | 2520 | 300 |
| | 9.463 | 2555 | 270 |
| | 10.092 | 2967 | 294 |
| | 11.520 | 2880 | 250 |
| | 12.978 | 2920 | 225 |
| | 14.743 | 3096 | 210 |
| | 16.128 | 4032 | 250 |
| | 18.169 | 4088 | 225 |
| | 20.571 | 4320 | 210 |
| | 23.175 | 4380 | 189 |
| | 25.200 | 4536 | 180 |
| | 28.389 | 4599 | 162 |

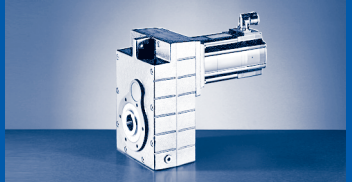


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL06-2 | 32.800 | 5904 | 180 |
| | 36.951 | 5986 | 162 |
| | 40.800 | 4896 | 120 |
| | 45.963 | 4964 | 108 |
| | 52.800 | 6336 | 120 |
| | 59.481 | 6424 | 108 |
| | 64.080 | 6408 | 100 |
| | 72.189 | 6497 | 90 |
| | 81.000 | 6480 | 80 |
| | 91.250 | 6570 | 72 |
| GFL06-3 | 66.213 | 262800 | 3969 |
| | 72.000 | 272160 | 3780 |
| | 81.111 | 275940 | 3402 |
| | 88.200 | 285768 | 3240 |
| | 99.361 | 289737 | 2916 |
| | 116.571 | 293760 | 2520 |
| | 131.323 | 297840 | 2268 |
| | 144.320 | 389664 | 2700 |
| | 162.583 | 395076 | 2430 |
| | 179.520 | 323136 | 1800 |
| | 202.237 | 327624 | 1620 |
| | 231.200 | 332928 | 1440 |
| | 260.457 | 337552 | 1296 |
| | 293.018 | 386784 | 1320 |
| | 299.200 | 430848 | 1440 |
| | 367.200 | 396576 | 1080 |
| | 413.667 | 402084 | 972 |
| | 475.200 | 513216 | 1080 |
| | 535.333 | 520344 | 972 |
| | 576.720 | 519048 | 900 |
| | 649.700 | 526257 | 810 |
| | 759.806 | 531864 | 700 |
| | 855.954 | 539251 | 630 |
| GFL07-2 | 3.350 | 2040 | 609 |
| | 4.643 | 2340 | 504 |
| | 5.159 | 2244 | 435 |
| | 5.695 | 2312 | 406 |
| | 6.400 | 3360 | 525 |
| | 7.150 | 2574 | 360 |
| | 8.324 | 2414 | 290 |
| | 9.379 | 2448 | 261 |
| | 9.714 | 2856 | 294 |
| | 11.538 | 2769 | 240 |
| | 13.000 | 2808 | 216 |
| | 14.200 | 2982 | 210 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL07-2 | 15.904 | 3976 | 250 |
| | 17.920 | 4032 | 225 |
| | 20.286 | 4260 | 210 |
| | 22.857 | 4320 | 189 |
| | 24.850 | 4473 | 180 |
| | 28.000 | 4536 | 162 |
| | 32.344 | 5822 | 180 |
| | 36.444 | 5904 | 162 |
| | 39.642 | 4757 | 120 |
| | 44.667 | 4824 | 108 |
| | 52.067 | 6248 | 120 |
| | 58.667 | 6336 | 108 |
| | 63.190 | 6319 | 100 |
| | 71.200 | 6408 | 90 |
| | 79.875 | 6390 | 80 |
| | 90.000 | 6480 | 72 |
| GFL07-3 | 65.306 | 259200 | 3969 |
| | 72.452 | 326032 | 4500 |
| | 81.636 | 330624 | 4050 |
| | 92.413 | 349320 | 3780 |
| | 104.127 | 354240 | 3402 |
| | 113.206 | 366786 | 3240 |
| | 127.556 | 371952 | 2916 |
| | 147.347 | 477404 | 3240 |
| | 166.025 | 484128 | 2916 |
| | 183.285 | 395896 | 2160 |
| | 206.519 | 401472 | 1944 |
| | 224.636 | 323476 | 1440 |
| | 253.111 | 328032 | 1296 |
| | 290.706 | 418616 | 1440 |
| | 327.556 | 424512 | 1296 |
| | 352.811 | 423373 | 1200 |
| | 397.533 | 429336 | 1080 |
| | 430.222 | 557568 | 1296 |
| | 522.133 | 563904 | 1080 |
| | 562.391 | 562391 | 1000 |
| | 633.680 | 570312 | 900 |
| | 718.786 | 575029 | 800 |
| | 809.900 | 583128 | 720 |
| GFL09-2 | 6.864 | 2574 | 375 |
| | 7.466 | 2613 | 350 |
| | 9.010 | 2838 | 315 |
| | 9.799 | 2881 | 294 |
| | 11.167 | 3752 | 336 |
| | 12.307 | 2769 | 225 |

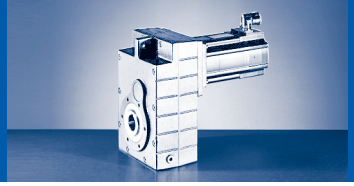


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL09-2 | 14.333 | 3010 | 210 |
| | 16.333 | 3920 | 240 |
| | 18.407 | 3976 | 216 |
| | 19.667 | 4130 | 210 |
| | 22.164 | 4189 | 189 |
| | 24.111 | 4340 | 180 |
| | 27.173 | 4402 | 162 |
| | 32.667 | 5880 | 180 |
| | 36.815 | 5964 | 162 |
| | 39.667 | 4760 | 120 |
| | 44.704 | 4828 | 108 |
| | 51.333 | 6160 | 120 |
| | 57.852 | 6248 | 108 |
| | 62.300 | 6230 | 100 |
| | 70.211 | 6319 | 90 |
| | 78.750 | 6300 | 80 |
| | 88.750 | 6390 | 72 |
| GFL09-3 | 63.326 | 251340 | 3969 |
| | 73.173 | 329280 | 4500 |
| | 82.465 | 333984 | 4050 |
| | 93.333 | 352800 | 3780 |
| | 105.185 | 357840 | 3402 |
| | 114.333 | 370440 | 3240 |
| | 128.852 | 375732 | 2916 |
| | 148.815 | 482160 | 3240 |
| | 167.712 | 489048 | 2916 |
| | 185.111 | 399840 | 2160 |
| | 208.617 | 405552 | 1944 |
| | 224.778 | 323680 | 1440 |
| | 253.321 | 328304 | 1296 |
| | 290.889 | 418880 | 1440 |
| | 327.827 | 424864 | 1296 |
| | 353.033 | 423640 | 1200 |
| | 397.863 | 429692 | 1080 |
| | 424.247 | 549824 | 1296 |
| | 514.881 | 556072 | 1080 |
| | 554.470 | 554470 | 1000 |
| | 624.879 | 562391 | 900 |
| | 700.875 | 560700 | 800 |
| | 789.875 | 568710 | 720 |
| GFL11-2 | 6.864 | 2574 | 375 |
| | 7.466 | 2613 | 350 |
| | 9.010 | 2838 | 315 |
| | 9.799 | 2881 | 294 |
| | 10.720 | 3752 | 350 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL11-2 | 12.480 | 2808 | 225 |
| | 14.538 | 3053 | 210 |
| | 15.904 | 3976 | 250 |
| | 17.920 | 4032 | 225 |
| | 20.286 | 4260 | 210 |
| | 22.857 | 4320 | 189 |
| | 24.850 | 4473 | 180 |
| | 28.000 | 4536 | 162 |
| | 32.739 | 5893 | 180 |
| | 36.889 | 5976 | 162 |
| | 40.233 | 4828 | 120 |
| | 45.333 | 4896 | 108 |
| | 52.067 | 6248 | 120 |
| | 58.667 | 6336 | 108 |
| | 63.190 | 6319 | 100 |
| | 71.200 | 6408 | 90 |
| | 79.875 | 6390 | 80 |
| | 90.000 | 6480 | 72 |
| GFL11-3 | 65.306 | 259200 | 3969 |
| | 73.335 | 330008 | 4500 |
| | 82.631 | 334656 | 4050 |
| | 93.540 | 353580 | 3780 |
| | 105.397 | 358560 | 3402 |
| | 114.586 | 371259 | 3240 |
| | 129.111 | 376488 | 2916 |
| | 149.144 | 483226 | 3240 |
| | 168.049 | 490032 | 2916 |
| | 182.792 | 394831 | 2160 |
| | 205.963 | 400392 | 1944 |
| | 224.636 | 323476 | 1440 |
| | 253.111 | 328032 | 1296 |
| | 267.259 | 519552 | 1944 |
| | 327.556 | 424512 | 1296 |
| | 358.077 | 429692 | 1200 |
| | 403.467 | 435744 | 1080 |
| | 430.222 | 557568 | 1296 |
| | 522.133 | 563904 | 1080 |
| | 562.391 | 562391 | 1000 |
| | 633.680 | 570312 | 900 |
| | 710.888 | 568710 | 800 |
| | 801.000 | 576720 | 720 |
| GFL14-2 | 7.150 | 2574 | 360 |
| | 7.777 | 2613 | 336 |
| | 8.800 | 2772 | 315 |
| | 9.571 | 2814 | 294 |



► $i_g = z_g / z_t$

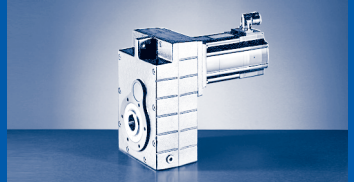
| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GFL14-2 | 11.538 | 2769 | 240 |
| | 13.000 | 2808 | 216 |
| | 14.200 | 2982 | 210 |
| | 15.620 | 3905 | 250 |
| | 17.600 | 3960 | 225 |
| | 19.948 | 4189 | 210 |
| | 22.476 | 4248 | 189 |
| | 24.456 | 4402 | 180 |
| | 27.556 | 4464 | 162 |
| | 32.344 | 5822 | 180 |
| | 36.444 | 5904 | 162 |
| | 39.642 | 4757 | 120 |
| | 44.667 | 4824 | 108 |
| | 52.067 | 6248 | 120 |
| | 58.667 | 6336 | 108 |
| | 63.190 | 6319 | 100 |
| | 71.200 | 6408 | 90 |
| | 79.875 | 6390 | 80 |
| | 90.000 | 6480 | 72 |
| GFL14-3 | 64.296 | 249984 | 3888 |
| | 68.708 | 259718 | 3780 |
| | 77.418 | 263376 | 3402 |
| | 85.037 | 330624 | 3888 |
| | 104.889 | 356832 | 3402 |
| | 114.126 | 369768 | 3240 |
| | 128.593 | 374976 | 2916 |
| | 136.889 | 354816 | 2592 |
| | 156.148 | 303552 | 1944 |
| | 170.074 | 495936 | 2916 |
| | 202.074 | 392832 | 1944 |
| | 224.636 | 323476 | 1440 |
| | 253.111 | 328032 | 1296 |
| | 273.778 | 532224 | 1944 |
| | 332.444 | 430848 | 1296 |
| | 352.811 | 423373 | 1200 |
| | 397.533 | 429336 | 1080 |
| | 430.222 | 557568 | 1296 |
| | 522.133 | 563904 | 1080 |
| | 562.391 | 562391 | 1000 |
| | 633.680 | 570312 | 900 |
| | 710.888 | 568710 | 800 |
| | 801.000 | 576720 | 720 |

## $M_{2\,GN} \leq 187$ Nm

| GFL04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 3.659 | 100 | 1.51 | $M_2$ | | | | | | 13 | 15 |
| | | | c | | | | | | 5.4 | 4.5 |
| | | | $n_{2\,Eck}$ | | | | | | 1107 | 1107 |
| | | | $n_{2\,th}$ | | | | | | 998 | 968 |
| 5.018 | 111 | 0.86 | $M_2$ | | | | | 14 | 18 | 21 |
| | | | c | | | | | 5.4 | 4.3 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | 747 | 807 | 807 |
| | | | $n_{2\,th}$ | | | | | 747 | 775 | 754 |
| 5.833 | 153 | 0.93 | $M_2$ | | | | | | 21 | 25 |
| | | | c | | | | | | 5.1 | 4.3 |
| | | | $n_{2\,Eck}$ | | | | | | 694 | 694 |
| | | | $n_{2\,th}$ | | | | | | 621 | 603 |
| 6.422 | 113 | 0.56 | $M_2$ | | | | 14 | 19 | 23 | 27 |
| | | | c | | | | 5.6 | 4.3 | 3.4 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 631 | 584 | 631 | 631 |
| | | | $n_{2\,th}$ | | | | 631 | 584 | 631 | 631 |
| 7.025 | 113 | 0.47 | $M_2$ | | | | 15 | 20 | 25 | 30 |
| | | | c | | | | 5.2 | 3.9 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 577 | 534 | 577 | 577 |
| | | | $n_{2\,th}$ | | | | 576 | 534 | 576 | 576 |
| 8.379 | 179 | 0.67 | $M_2$ | | | | | 24 | 30 | 36 |
| | | | c | | | | | 5.2 | 4.2 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | 448 | 483 | 483 |
| | | | $n_{2\,th}$ | | | | | 434 | 416 | 404 |
| 9.333 | 165 | 0.61 | $M_2$ | | | | 20 | 27 | 34 | 40 |
| | | | c | | | | 5.7 | 4.3 | 3.4 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 434 | 402 | 434 | 434 |
| | | | $n_{2\,th}$ | | | | 395 | 377 | 361 | 349 |
| 10.238 | 159 | 0.37 | $M_2$ | | | | 22 | 30 | 37 | 44 |
| | | | c | | | | 5.0 | 3.8 | 3.0 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 396 | 366 | 396 | 396 |
| | | | $n_{2\,th}$ | | | | 396 | 366 | 396 | 396 |
| 11.491 | 181 | 0.41 | $M_2$ | | | | 25 | 34 | 41 | 49 |
| | | | c | | | | 5.1 | 3.9 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 353 | 326 | 353 | 353 |
| | | | $n_{2\,th}$ | | | | 347 | 326 | 319 | 310 |
| 12.800 | 166 | 0.38 | $M_2$ | | | | 28 | 38 | 46 | 55 |
| | | | c | | | | 4.2 | 3.2 | 2.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 316 | 293 | 316 | 316 |
| | | | $n_{2\,th}$ | | | | 302 | 289 | 277 | 269 |
| 14.706 | 182 | 0.28 | $M_2$ | | | | 32 | 43 | 53 | 64 |
| | | | c | | | | 4.0 | 3.0 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 275 | 255 | 275 | 275 |
| | | | $n_{2\,th}$ | | | | 275 | 255 | 275 | 274 |
| 16.087 | 182 | 0.25 | $M_2$ | | | 22 | 35 | 48 | 59 | 70 |
| | | | c | | | 5.6 | 3.6 | 2.8 | 2.2 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 252 | 252 | 233 | 252 | 252 |
| | | | $n_{2\,th}$ | | | 252 | 252 | 233 | 252 | 252 |
| 17.920 | 167 | 0.23 | $M_2$ | | 20 | 25 | 39 | 53 | 66 | 78 |
| | | | c | | 5.8 | 4.6 | 3.0 | 2.3 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 226 | 226 | 226 | 209 | 226 | 226 |
| | | | $n_{2\,th}$ | | 226 | 226 | 226 | 209 | 223 | 205 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 187$ Nm

| GFL04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 20.519 | 183 | 0.17 | $M_2$ | | 23 | 29 | 45 | 61 | 75 | 89 |
| | | | c | | 5.5 | 4.4 | 2.9 | 2.2 | 1.7 | 1.5 |
| | | | $n_{2\,Eck}$ | | 197 | 197 | 197 | 183 | 197 | 197 |
| | | | $n_{2\,th}$ | | 197 | 197 | 197 | 183 | 197 | 197 |
| 22.857 | 167 | 0.16 | $M_2$ | | 26 | 32 | 50 | 68 | 84 | 100 |
| | | | c | | 4.5 | 3.6 | 2.4 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 177 | 177 | 177 | 164 | 177 | 177 |
| | | | $n_{2\,th}$ | | 177 | 177 | 177 | 164 | 177 | 167 |
| 25.136 | 183 | 0.13 | $M_2$ | | 28 | 35 | 55 | 75 | 92 | 109 |
| | | | c | | 5.1 | 4.1 | 2.7 | 2.0 | 1.6 | 1.4 |
| | | | $n_{2\,Eck}$ | | 161 | 161 | 161 | 149 | 161 | 161 |
| | | | $n_{2\,th}$ | | 161 | 161 | 161 | 149 | 161 | 161 |
| 28.000 | 168 | 0.12 | $M_2$ | | 32 | 40 | 62 | 84 | 103 | 122 |
| | | | c | | 4.2 | 3.4 | 2.2 | 1.7 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 145 | 145 | 145 | 134 | 145 | 145 |
| | | | $n_{2\,th}$ | | 145 | 145 | 145 | 134 | 145 | 145 |
| 31.600 | 185 | 0.09 | $M_2$ | | 36 | 45 | | | | |
| | | | c | | 4.1 | 3.3 | | | | |
| | | | $n_{2\,Eck}$ | | 128 | 128 | | | | |
| | | | $n_{2\,th}$ | | 128 | 128 | | | | |
| 35.200 | 170 | 0.08 | $M_2$ | | 40 | 50 | | | | |
| | | | c | | 3.4 | 2.7 | | | | |
| | | | $n_{2\,Eck}$ | | 115 | 115 | | | | |
| | | | $n_{2\,th}$ | | 115 | 115 | | | | |
| 40.697 | 187 | 0.06 | $M_2$ | | 46 | 58 | | | | |
| | | | c | | 3.2 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | | 100 | 100 | | | | |
| | | | $n_{2\,th}$ | | 100 | 100 | | | | |
| 45.333 | 172 | 0.06 | $M_2$ | 25 | 52 | 65 | | | | |
| | | | c | 5.3 | 2.7 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 89 | 89 | 89 | | | | |
| | | | $n_{2\,th}$ | 89 | 89 | 89 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

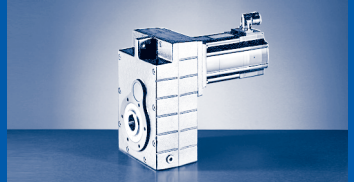
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 3.333 | 110 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 14<br>5.4<br>1215<br>920 |
| 3.333 | 150 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 4.571 | 133 | 2.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 16<br>5.7<br>886<br>790 | 19<br>4.8<br>886<br>766 |
| 4.571 | 170 | 2.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 5.133 | 170 | 2.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 21<br>5.4<br>789<br>597 |
| 5.133 | 223 | 2.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 5.667 | 187 | 2.33 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 24<br>5.4<br>715<br>541 |
| 5.667 | 233 | 2.33 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 6.400 | 149 | 0.82 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 18<br>5.7<br>586<br>586 | 23<br>4.5<br>633<br>612 | 27<br>3.8<br>633<br>595 |
| 6.400 | 173 | 0.82 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 7.040 | 205 | 1.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 25<br>5.7<br>575<br>513 | 30<br>4.8<br>575<br>498 |
| 7.040 | 248 | 1.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 7.771 | 226 | 1.45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 27<br>5.7<br>521<br>465 | 33<br>4.8<br>521<br>451 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 345$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GFL05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.68 | 110 | 3.333 |
| | | 31<br>4.6<br>450<br>450 | 25<br>4.6<br>900<br>891 | 23<br>4.7<br>1058<br>893 | 43<br>3.2<br>585<br>585 | 35<br>3.0<br>1215<br>819 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.68 | 150 | 3.333 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.13 | 133 | 4.571 |
| | | 43<br>3.8<br>328<br>328 | 34<br>3.8<br>656<br>656 | 32<br>3.9<br>771<br>736 | 59<br>2.6<br>427<br>427 | 48<br>2.5<br>886<br>676 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.13 | 170 | 4.571 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.37 | 170 | 5.133 |
| | | 48<br>4.5<br>292<br>292 | 38<br>4.5<br>584<br>575 | 36<br>4.5<br>687<br>576 | 66<br>3.0<br>380<br>380 | 54<br>2.9<br>789<br>528 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.37 | 223 | 5.133 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.33 | 187 | 5.667 |
| | | 53<br>4.2<br>265<br>265 | 43<br>4.2<br>529<br>515 | 40<br>4.2<br>622<br>516 | 73<br>2.9<br>344<br>344 | 59<br>2.8<br>715<br>473 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.33 | 233 | 5.667 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 149 | 6.400 |
| 33<br>4.7<br>305<br>305 | 26<br>4.7<br>633<br>614 | 61<br>2.8<br>234<br>234 | 49<br>2.8<br>469<br>469 | 46<br>2.8<br>551<br>551 | 83<br>1.9<br>305<br>305 | 68<br>1.8<br>633<br>508 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 173 | 6.400 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.47 | 205 | 7.040 |
| | | 66<br>3.6<br>213<br>213 | 53<br>3.6<br>426<br>426 | 50<br>3.6<br>501<br>473 | 91<br>2.5<br>277<br>277 | 74<br>2.4<br>575<br>434 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.47 | 248 | 7.040 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.45 | 226 | 7.771 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

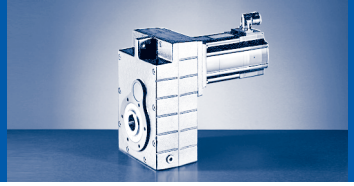
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 7.771 | 258 | 1.45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 9.010 | 220 | 0.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 26<br>6.0<br>416<br>416 | 32<br>4.8<br>450<br>423 | 38<br>4.0<br>450<br>411 |
| 9.010 | 266 | 0.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 9.946 | 243 | 0.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 28<br>6.0<br>377<br>377 | 35<br>4.8<br>407<br>383 | 42<br>4.0<br>407<br>373 |
| 9.946 | 275 | 0.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | |
| 11.360 | 278 | 1.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 40<br>4.8<br>357<br>308 | 48<br>4.0<br>357<br>299 |
| 12.800 | 285 | 1.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 37<br>5.5<br>293<br>280 | 46<br>4.3<br>316<br>269 | 54<br>3.7<br>316<br>260 |
| 14.538 | 301 | 0.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 42<br>5.1<br>258<br>258 | 52<br>4.0<br>279<br>255 | 62<br>3.4<br>279<br>248 |
| 15.904 | 310 | 0.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 46<br>4.8<br>236<br>236 | 57<br>3.8<br>255<br>239 | 68<br>3.2<br>255<br>232 |
| 17.920 | 312 | 0.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 38<br>5.6<br>226<br>226 | 52<br>4.3<br>209<br>209 | 64<br>3.4<br>226<br>208 | 77<br>2.9<br>226<br>202 |
| 20.286 | 333 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 43<br>5.3<br>200<br>200 | 59<br>4.0<br>185<br>185 | 73<br>3.2<br>200<br>200 | 87<br>2.7<br>200<br>200 |
| 22.857 | 313 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 49<br>4.4<br>177<br>177 | 67<br>3.4<br>164<br>164 | 83<br>2.7<br>177<br>177 | 99<br>2.3<br>177<br>177 |
| 24.850 | 344 | 0.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 53<br>5.1<br>163<br>163 | 73<br>3.9<br>151<br>151 | 90<br>3.1<br>163<br>163 | 107<br>2.6<br>163<br>163 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 345$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GFL05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 39 | 31 | 74 | 59 | 55 | 100 | 82 | $M_2$ | 1.45 | 258 | 7.771 |
| 5.7 | 5.7 | 3.4 | 3.4 | 3.4 | 2.3 | 2.2 | c | | | |
| 251 | 521 | 193 | 386 | 454 | 251 | 521 | $n_{2\,Eck}$ | | | |
| 251 | 466 | 193 | 386 | 424 | 251 | 388 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.95 | 220 | 9.010 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 46 | 36 | 86 | 68 | 64 | 117 | 95 | $M_2$ | 0.95 | 266 | 9.010 |
| 5.1 | 5.1 | 3.0 | 3.0 | 3.1 | 2.1 | 2.0 | c | | | |
| 216 | 450 | 167 | 333 | 391 | 216 | 450 | $n_{2\,Eck}$ | | | |
| 216 | 428 | 166 | 333 | 391 | 216 | 362 | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.89 | 243 | 9.946 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 51 | 40 | 95 | 76 | 71 | 129 | 105 | $M_2$ | 0.89 | 275 | 9.946 |
| 4.7 | 4.8 | 2.9 | 2.8 | 2.9 | 1.9 | 1.9 | c | | | |
| 196 | 407 | 151 | 302 | 354 | 196 | 407 | $n_{2\,Eck}$ | | | |
| 196 | 383 | 151 | 302 | 350 | 196 | 317 | $n_{2\,th}$ | | | |
| 59 | 46 | 108 | 87 | 81 | 148 | 120 | $M_2$ | 1.08 | 278 | 11.360 |
| 4.2 | 4.2 | 2.5 | 2.5 | 2.5 | 1.7 | 1.7 | c | | | |
| 172 | 357 | 132 | 264 | 310 | 172 | 357 | $n_{2\,Eck}$ | | | |
| 172 | 301 | 132 | 264 | 273 | 172 | 234 | $n_{2\,th}$ | | | |
| 66 | 52 | 123 | 98 | 92 | 167 | 136 | $M_2$ | 1.01 | 285 | 12.800 |
| 3.8 | 3.8 | 2.3 | 2.3 | 2.3 | 1.6 | 1.5 | c | | | |
| 152 | 316 | 117 | 234 | 275 | 152 | 316 | $n_{2\,Eck}$ | | | |
| 152 | 263 | 117 | 234 | 237 | 152 | 197 | $n_{2\,th}$ | | | |
| 76 | 59 | 139 | 112 | 105 | 190 | 155 | $M_2$ | 0.75 | 301 | 14.538 |
| 3.6 | 3.6 | 2.1 | 2.1 | 2.1 | 1.5 | 1.4 | c | | | |
| 134 | 279 | 103 | 206 | 243 | 134 | 279 | $n_{2\,Eck}$ | | | |
| 134 | 250 | 103 | 206 | 227 | 134 | 188 | $n_{2\,th}$ | | | |
| 83 | 65 | 153 | 122 | 115 | 208 | 169 | $M_2$ | 0.60 | 310 | 15.904 |
| 3.4 | 3.4 | 2.0 | 2.0 | 2.0 | 1.4 | 1.3 | c | | | |
| 123 | 255 | 94 | 189 | 222 | 123 | 255 | $n_{2\,Eck}$ | | | |
| 123 | 234 | 94 | 189 | 213 | 123 | 176 | $n_{2\,th}$ | | | |
| 94 | 73 | 172 | 138 | 129 | 234 | 191 | $M_2$ | 0.61 | 312 | 17.920 |
| 3.0 | 3.0 | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | c | | | |
| 109 | 226 | 84 | 167 | 197 | 109 | 226 | $n_{2\,Eck}$ | | | |
| 109 | 204 | 84 | 167 | 180 | 109 | 149 | $n_{2\,th}$ | | | |
| 106 | 83 | 195 | 156 | 147 | 265 | 216 | $M_2$ | 0.43 | 333 | 20.286 |
| 2.8 | 2.8 | 1.7 | 1.7 | 1.7 | 1.2 | 1.1 | c | | | |
| 96 | 200 | 74 | 148 | 174 | 96 | 200 | $n_{2\,Eck}$ | | | |
| 96 | 200 | 74 | 148 | 174 | 96 | 151 | $n_{2\,th}$ | | | |
| 120 | 94 | 221 | 177 | 166 | | | $M_2$ | 0.43 | 313 | 22.857 |
| 2.4 | 2.4 | 1.4 | 1.4 | 1.4 | | | c | | | |
| 85 | 177 | 66 | 131 | 154 | | | $n_{2\,Eck}$ | | | |
| 85 | 177 | 66 | 131 | 149 | | | $n_{2\,th}$ | | | |
| 130 | 102 | 240 | 192 | 180 | 325 | 265 | $M_2$ | 0.35 | 344 | 24.850 |
| 2.6 | 2.7 | 1.4 | 1.6 | 1.6 | 1.1 | 1.1 | c | | | |
| 79 | 163 | 60 | 121 | 142 | 79 | 163 | $n_{2\,Eck}$ | | | |
| 78 | 163 | 60 | 121 | 142 | 78 | 138 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

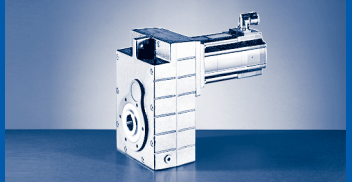
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 28.000 | 314 | 0.33 | $M_2$ | | | 60 | 82 | 102 | 121 |
| | | | c | | | 4.1 | 3.1 | 2.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | 145 | 134 | 145 | 145 |
| | | | $n_{2\,th}$ | | | 145 | 134 | 145 | 145 |
| 32.344 | 296 | 0.20 | $M_2$ | | 45 | | | | |
| | | | c | | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | | 125 | | | | |
| | | | $n_{2\,th}$ | | 125 | | | | |
| 32.344 | 345 | 0.20 | $M_2$ | | | 70 | 95 | 118 | 140 |
| | | | c | | | 3.9 | 3.0 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | | | 125 | 116 | 125 | 125 |
| | | | $n_{2\,th}$ | | | 125 | 116 | 125 | 125 |
| 36.444 | 316 | 0.20 | $M_2$ | | 51 | 80 | 108 | 133 | 158 |
| | | | c | | 4.9 | 3.2 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 111 | 111 | 103 | 111 | 111 |
| | | | $n_{2\,th}$ | | 111 | 111 | 103 | 111 | 111 |
| 40.233 | 307 | 0.15 | $M_2$ | 45 | 57 | | | | |
| | | | c | 5.4 | 4.3 | | | | |
| | | | $n_{2\,Eck}$ | 101 | 101 | | | | |
| | | | $n_{2\,th}$ | 101 | 101 | | | | |
| 40.233 | 345 | 0.15 | $M_2$ | | | 88 | 119 | 147 | 175 |
| | | | c | | | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 101 | 93 | 101 | 101 |
| | | | $n_{2\,th}$ | | | 101 | 93 | 101 | 101 |
| 45.333 | 319 | 0.14 | $M_2$ | 51 | 64 | 100 | 135 | 166 | 197 |
| | | | c | 4.9 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | 89 | 89 | 89 | 83 | 89 | 89 |
| | | | $n_{2\,th}$ | 89 | 89 | 89 | 83 | 89 | 89 |
| 52.067 | 309 | 0.09 | $M_2$ | 59 | 74 | | | | |
| | | | c | 4.2 | 3.3 | | | | |
| | | | $n_{2\,Eck}$ | 78 | 78 | | | | |
| | | | $n_{2\,th}$ | 78 | 78 | | | | |
| 58.667 | 322 | 0.09 | $M_2$ | 66 | 84 | | | | |
| | | | c | 3.9 | 3.1 | | | | |
| | | | $n_{2\,Eck}$ | 69 | 69 | | | | |
| | | | $n_{2\,th}$ | 69 | 69 | | | | |
| 63.190 | 282 | 0.07 | $M_2$ | 72 | 91 | | | | |
| | | | c | 3.1 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | 64 | 64 | | | | |
| | | | $n_{2\,th}$ | 64 | 64 | | | | |
| 71.200 | 305 | 0.06 | $M_2$ | 81 | 102 | | | | |
| | | | c | 3.3 | 2.7 | | | | |
| | | | $n_{2\,Eck}$ | 57 | 57 | | | | |
| | | | $n_{2\,th}$ | 57 | 57 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 345$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GFL05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 148<br>2.1<br>70<br>70 | 115<br>2.2<br>145<br>145 | 271<br>1.2<br>54<br>54 | 217<br>1.3<br>107<br>107 | 203<br>1.3<br>126<br>126 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 314 | 28.000 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 296 | 32.344 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 345 | 32.344 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 316 | 36.444 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.15 | 307 | 40.233 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.15 | 345 | 40.233 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.14 | 319 | 45.333 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.09 | 309 | 52.067 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.09 | 322 | 58.667 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.07 | 282 | 63.190 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.06 | 305 | 71.200 |

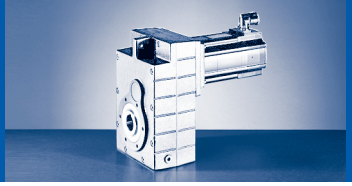
M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 |
| 61.653 | 207 | 0.20 | $M_2$ | 34 | 70 | 88 | 135 | |
| | | | c | 4.8 | 2.4 | 1.9 | 1.3 | |
| | | | $n_{2\,Eck}$ | 66 | 66 | 66 | 66 | |
| | | | $n_{2\,th}$ | 66 | 66 | 66 | 66 | |
| 78.639 | 225 | 0.14 | $M_2$ | 43 | 89 | 112 | 173 | |
| | | | c | 4.5 | 2.3 | 1.8 | 1.2 | |
| | | | $n_{2\,Eck}$ | 52 | 52 | 52 | 52 | |
| | | | $n_{2\,th}$ | 52 | 52 | 52 | 52 | |
| 90.123 | 303 | 0.20 | $M_2$ | 49 | 102 | 128 | 197 | 267 |
| | | | c | 5.3 | 2.7 | 2.1 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 45 | 45 | 45 | 45 | 42 |
| | | | $n_{2\,th}$ | 45 | 45 | 45 | 45 | 42 |
| 101.547 | 328 | 0.20 | $M_2$ | 56 | 115 | 144 | 222 | 301 |
| | | | c | 5.1 | 2.6 | 2.0 | 1.3 | 1.0 |
| | | | $n_{2\,Eck}$ | 40 | 40 | 40 | 40 | 37 |
| | | | $n_{2\,th}$ | 40 | 40 | 40 | 40 | 37 |
| 114.952 | 329 | 0.14 | $M_2$ | 63 | 130 | 163 | 252 | |
| | | | c | 4.5 | 2.3 | 1.8 | 1.2 | |
| | | | $n_{2\,Eck}$ | 35 | 35 | 35 | 35 | |
| | | | $n_{2\,th}$ | 35 | 35 | 35 | 35 | |
| 129.524 | 328 | 0.14 | $M_2$ | 72 | 147 | 185 | 285 | |
| | | | c | 4.0 | 2.0 | 1.6 | 1.0 | |
| | | | $n_{2\,Eck}$ | 31 | 31 | 31 | 31 | |
| | | | $n_{2\,th}$ | 31 | 31 | 31 | 31 | |
| 140.817 | 345 | 0.11 | $M_2$ | 78 | 160 | 201 | 309 | |
| | | | c | 3.9 | 1.9 | 1.6 | 1.0 | |
| | | | $n_{2\,Eck}$ | 29 | 29 | 29 | 29 | |
| | | | $n_{2\,th}$ | 29 | 29 | 29 | 29 | |
| 158.667 | 328 | 0.11 | $M_2$ | 89 | 181 | 227 | | |
| | | | c | 3.3 | 1.6 | 1.3 | | |
| | | | $n_{2\,Eck}$ | 26 | 26 | 26 | | |
| | | | $n_{2\,th}$ | 26 | 26 | 26 | | |
| 177.027 | 345 | 0.07 | $M_2$ | 99 | 202 | 253 | | |
| | | | c | 3.1 | 1.5 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 23 | 23 | 23 | | |
| | | | $n_{2\,th}$ | 23 | 23 | 23 | | |
| 199.467 | 328 | 0.07 | $M_2$ | 112 | 228 | 286 | | |
| | | | c | 2.6 | 1.3 | 1.0 | | |
| | | | $n_{2\,Eck}$ | 20 | 20 | 20 | | |
| | | | $n_{2\,th}$ | 20 | 20 | 20 | | |
| 227.989 | 345 | 0.05 | $M_2$ | 129 | 261 | | | |
| | | | c | 2.4 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | 18 | 18 | | | |
| | | | $n_{2\,th}$ | 18 | 18 | | | |
| 256.889 | 328 | 0.05 | $M_2$ | 146 | 295 | | | |
| | | | c | 2.0 | 1.0 | | | |
| | | | $n_{2\,Eck}$ | 16 | 16 | | | |
| | | | $n_{2\,th}$ | 16 | 16 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

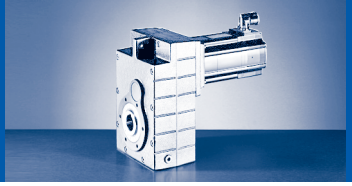


## $M_{2\,GN} \leq 657$ Nm

| GFL06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 3.675 | 205 | 7.76 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 34<br>5.8<br>408<br>408 | 27<br>5.7<br>816<br>714 |
| 3.675 | 317 | 7.76 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.211 | 291 | 6.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 48<br>5.8<br>288<br>288 | 38<br>5.7<br>576<br>503 |
| 5.211 | 424 | 6.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 5.750 | 321 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 53<br>5.8<br>261<br>261 | 42<br>5.7<br>522<br>456 |
| 5.750 | 442 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 6.450 | 195 | 3.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 23<br>5.9<br>628<br>548 | 27<br>5.0<br>628<br>531 | | | | |
| 6.450 | 252 | 3.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 61<br>4.0<br>233<br>233 | 49<br>4.0<br>465<br>465 |
| 6.450 | 352 | 3.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 7.147 | 333 | 4.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 67<br>4.8<br>210<br>210 | 53<br>4.8<br>420<br>410 |
| 7.147 | 433 | 4.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 8.400 | 469 | 4.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 78<br>5.8<br>179<br>179 | 62<br>5.7<br>357<br>312 |
| 8.400 | 604 | 4.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 657$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GFL06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 25 | 47 | 38 | | | | | | | | | $M_2$ | 7.76 | 205 | 3.675 |
| 5.8 | 3.9 | 3.8 | | | | | | | | | c | | | |
| 959 | 531 | 1102 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 715 | 531 | 656 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 54 | 48 | 80 | 59 | 105 | 73 | $M_2$ | 7.76 | 317 | 3.675 |
| | | | | | 5.6 | 4.9 | 3.9 | 4.0 | 3.0 | 3.3 | c | | | |
| | | | | | 408 | 878 | 408 | 878 | 367 | 878 | $n_{2\,Eck}$ | | | |
| | | | | | 408 | 693 | 408 | 665 | 367 | 637 | $n_{2\,th}$ | | | |
| 36 | 66 | 54 | | | | | | | | | $M_2$ | 6.64 | 291 | 5.211 |
| 5.8 | 3.9 | 3.8 | | | | | | | | | c | | | |
| 676 | 374 | 777 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 505 | 374 | 463 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 77 | 68 | 113 | 84 | 149 | 104 | $M_2$ | 6.64 | 424 | 5.211 |
| | | | | | 5.2 | 4.6 | 3.6 | 3.8 | 2.8 | 3.1 | c | | | |
| | | | | | 288 | 619 | 288 | 619 | 259 | 619 | $n_{2\,Eck}$ | | | |
| | | | | | 288 | 483 | 288 | 463 | 259 | 443 | $n_{2\,th}$ | | | |
| 40 | 73 | 60 | | | | | | | | | $M_2$ | 6.04 | 321 | 5.750 |
| 5.8 | 3.9 | 3.8 | | | | | | | | | c | | | |
| 613 | 339 | 704 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 457 | 339 | 419 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 86 | 75 | 125 | 93 | 165 | 115 | $M_2$ | 6.04 | 442 | 5.750 |
| | | | | | 5.0 | 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | c | | | |
| | | | | | 261 | 561 | 261 | 561 | 235 | 561 | $n_{2\,Eck}$ | | | |
| | | | | | 261 | 433 | 261 | 415 | 235 | 397 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 3.65 | 195 | 6.450 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 45 | 83 | 68 | | | | | | | | | $M_2$ | 3.65 | 252 | 6.450 |
| 4.1 | 2.7 | 2.6 | | | | | | | | | c | | | |
| 547 | 302 | 628 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 510 | 302 | 468 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | 45 | 98 | 86 | 142 | 106 | 186 | 130 | $M_2$ | 3.65 | 352 | 6.450 |
| | | | | 5.6 | 3.5 | 3.1 | 2.4 | 2.5 | 1.9 | 2.1 | c | | | |
| | | | | 558 | 233 | 500 | 233 | 500 | 209 | 500 | $n_{2\,Eck}$ | | | |
| | | | | 542 | 233 | 484 | 233 | 464 | 209 | 444 | $n_{2\,th}$ | | | |
| 50 | 91 | 75 | | | | | | | | | $M_2$ | 4.04 | 333 | 7.147 |
| 4.8 | 3.3 | 3.1 | | | | | | | | | c | | | |
| 493 | 273 | 567 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 411 | 273 | 377 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 108 | 95 | 157 | 117 | 206 | 144 | $M_2$ | 4.04 | 433 | 7.147 |
| | | | | | 3.9 | 3.5 | 2.7 | 2.8 | 2.1 | 2.3 | c | | | |
| | | | | | 210 | 451 | 210 | 451 | 189 | 451 | $n_{2\,Eck}$ | | | |
| | | | | | 210 | 385 | 210 | 369 | 189 | 353 | $n_{2\,th}$ | | | |
| 58 | 107 | 87 | | | | | | | | | $M_2$ | 4.26 | 469 | 8.400 |
| 5.8 | 3.9 | 3.8 | | | | | | | | | c | | | |
| 420 | 232 | 482 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 313 | 232 | 287 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 126 | 110 | 183 | 137 | 241 | 168 | $M_2$ | 4.26 | 604 | 8.400 |
| | | | | | 4.6 | 4.1 | 3.2 | 3.3 | 2.5 | 2.7 | c | | | |
| | | | | | 179 | 384 | 179 | 384 | 161 | 384 | $n_{2\,Eck}$ | | | |
| | | | | | 179 | 292 | 179 | 280 | 161 | 268 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

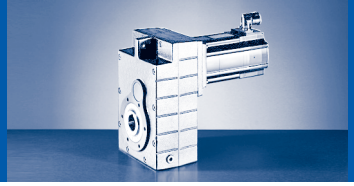
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 657$ Nm

| GFL06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 9.463 | 529 | 3.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 87<br>5.8<br>159<br>159 | 70<br>5.7<br>317<br>277 |
| 9.463 | 581 | 3.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 10.092 | 306 | 2.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 35<br>5.9<br>401<br>350 | 42<br>5.0<br>401<br>339 | | | | |
| 10.092 | 395 | 2.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 95<br>4.0<br>149<br>149 | 76<br>4.0<br>297<br>297 |
| 10.092 | 459 | 2.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 11.520 | 536 | 1.73 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 107<br>4.8<br>130<br>130 | 86<br>4.8<br>260<br>255 |
| 11.520 | 632 | 1.73 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 12.978 | 592 | 2.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 121<br>4.7<br>116<br>116 | 97<br>4.7<br>231<br>225 |
| 14.743 | 447 | 1.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 52<br>5.9<br>275<br>240 | 62<br>5.0<br>275<br>232 | | | | |
| 14.743 | 577 | 1.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 139<br>4.0<br>102<br>102 | 111<br>4.0<br>204<br>203 |
| 14.743 | 641 | 1.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 16.128 | 467 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 57<br>5.6<br>251<br>224 | 68<br>4.8<br>251<br>217 | | | | |
| 16.128 | 603 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 152<br>3.9<br>93<br>93 | 122<br>3.8<br>186<br>186 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 657$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GFL06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 65 | 120 | 98 | | | | | | | | | $M_2$ | 3.88 | 529 | 9.463 |
| 5.8 | 3.9 | 3.8 | | | | | | | | | c | | | |
| 373 | 206 | 428 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 278 | 206 | 255 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 142 | 125 | 207 | 155 | 272 | 190 | $M_2$ | 3.88 | 581 | 9.463 |
| | | | | | 4.0 | 3.5 | 2.8 | 2.9 | 2.1 | 2.3 | c | | | |
| | | | | | 159 | 341 | 159 | 341 | 143 | 341 | $n_{2\,Eck}$ | | | |
| | | | | | 159 | 251 | 159 | 240 | 143 | 229 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.52 | 306 | 10.092 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 71 | 130 | 106 | | | | | | | | | $M_2$ | 2.52 | 395 | 10.092 |
| 4.1 | 2.7 | 2.6 | | | | | | | | | c | | | |
| 349 | 193 | 401 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 326 | 193 | 299 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 86 | 71 | 154 | 135 | 223 | 166 | 292 | 204 | $M_2$ | 2.52 | 459 | 10.092 |
| | | | 5.1 | 4.7 | 2.9 | 2.6 | 2.0 | 2.1 | 1.6 | 1.7 | c | | | |
| | | | 149 | 357 | 149 | 320 | 149 | 320 | 134 | 320 | $n_{2\,Eck}$ | | | |
| | | | 149 | 335 | 149 | 298 | 149 | 285 | 134 | 259 | $n_{2\,th}$ | | | |
| 81 | 147 | 120 | | | | | | | | | $M_2$ | 1.73 | 536 | 11.520 |
| 4.8 | 3.3 | 3.1 | | | | | | | | | c | | | |
| 306 | 169 | 352 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 255 | 169 | 234 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | 80 | 174 | 153 | 253 | 189 | 332 | 232 | $M_2$ | 1.73 | 632 | 11.520 |
| | | | | 5.6 | 3.5 | 3.1 | 2.5 | 2.6 | 1.9 | 2.1 | c | | | |
| | | | | 313 | 130 | 280 | 130 | 280 | 117 | 280 | $n_{2\,Eck}$ | | | |
| | | | | 263 | 130 | 234 | 130 | 224 | 117 | 214 | $n_{2\,th}$ | | | |
| 91 | 166 | 136 | 111 | 91 | 197 | 173 | 286 | 214 | 376 | 262 | $M_2$ | 2.61 | 592 | 12.978 |
| 4.7 | 3.2 | 3.1 | 5.1 | 4.7 | 2.9 | 2.6 | 2.0 | 2.1 | 1.6 | 1.7 | c | | | |
| 272 | 150 | 312 | 116 | 277 | 116 | 249 | 116 | 249 | 104 | 249 | $n_{2\,Eck}$ | | | |
| 226 | 150 | 207 | 116 | 225 | 116 | 199 | 116 | 190 | 104 | 174 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.95 | 447 | 14.743 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 104 | 190 | 155 | | | | | | | | | $M_2$ | 1.95 | 577 | 14.743 |
| 4.1 | 2.7 | 2.6 | | | | | | | | | c | | | |
| 239 | 132 | 275 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 223 | 132 | 205 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 126 | 103 | 225 | 197 | 326 | 243 | 427 | 298 | $M_2$ | 1.95 | 641 | 14.743 |
| | | | 4.9 | 4.5 | 2.8 | 2.5 | 2.0 | 2.0 | 1.5 | 1.7 | c | | | |
| | | | 102 | 244 | 102 | 219 | 102 | 219 | 92 | 219 | $n_{2\,Eck}$ | | | |
| | | | 102 | 227 | 102 | 202 | 102 | 193 | 92 | 173 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.68 | 467 | 16.128 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 114 | 208 | 169 | | | | | | | | | $M_2$ | 1.68 | 603 | 16.128 |
| 3.9 | 2.6 | 2.5 | | | | | | | | | c | | | |
| 219 | 121 | 251 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 209 | 121 | 192 | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

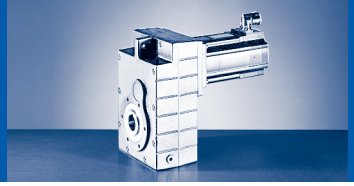
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 657$ Nm

| GFL06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 16.128 | 643 | 1.68 | $M_2$ | | | | | | | | | | |
| | | | c | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | | | |
| 18.169 | 526 | 1.57 | $M_2$ | | | | | 64 | 76 | | | | |
| | | | c | | | | | 5.6 | 4.8 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 223 | 223 | | | | |
| | | | $n_{2\,th}$ | | | | | 199 | 193 | | | | |
| 18.169 | 600 | 1.57 | $M_2$ | | | | | | | 92 | 72 | 172 | 138 |
| | | | c | | | | | | | 5.7 | 5.7 | 3.4 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | | | 107 | 223 | 83 | 165 |
| | | | $n_{2\,th}$ | | | | | | | 107 | 199 | 83 | 165 |
| 20.571 | 501 | 1.19 | $M_2$ | | | | 59 | 73 | 87 | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | 182 | 197 | 197 | | | | |
| | | | $n_{2\,th}$ | | | | 182 | 187 | 182 | | | | |
| 20.571 | 645 | 1.19 | $M_2$ | | | | | | | 105 | 82 | 195 | 156 |
| | | | c | | | | | | | 5.4 | 5.4 | 3.2 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 95 | 197 | 73 | 146 |
| | | | $n_{2\,th}$ | | | | | | | 95 | 191 | 73 | 146 |
| 23.175 | 565 | 1.13 | $M_2$ | | | | 66 | 82 | 98 | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | 162 | 175 | 175 | | | | |
| | | | $n_{2\,th}$ | | | | 162 | 166 | 161 | | | | |
| 23.175 | 604 | 1.13 | $M_2$ | | | | | | | 119 | 93 | 221 | 177 |
| | | | c | | | | | | | 4.5 | 4.5 | 2.7 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | | | 84 | 175 | 65 | 130 |
| | | | $n_{2\,th}$ | | | | | | | 84 | 164 | 65 | 129 |
| 25.200 | 527 | 0.90 | $M_2$ | | | | 72 | 89 | 107 | | | | |
| | | | c | | | | 5.8 | 4.6 | 3.9 | | | | |
| | | | $n_{2\,Eck}$ | | | | 149 | 161 | 161 | | | | |
| | | | $n_{2\,th}$ | | | | 149 | 161 | 161 | | | | |
| 25.200 | 651 | 0.90 | $M_2$ | | | | | | | 129 | 101 | 240 | 192 |
| | | | c | | | | | | | 4.8 | 5.1 | 2.7 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | | | 77 | 161 | 60 | 119 |
| | | | $n_{2\,th}$ | | | | | | | 77 | 161 | 60 | 119 |
| 28.389 | 594 | 0.86 | $M_2$ | | | | 81 | 101 | 120 | | | | |
| | | | c | | | | 5.8 | 4.6 | 3.9 | | | | |
| | | | $n_{2\,Eck}$ | | | | 132 | 143 | 143 | | | | |
| | | | $n_{2\,th}$ | | | | 132 | 143 | 143 | | | | |
| 28.389 | 607 | 0.86 | $M_2$ | | | | | | | 147 | 115 | 272 | 217 |
| | | | c | | | | | | | 4.0 | 4.2 | 2.2 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | | 69 | 143 | 53 | 106 |
| | | | $n_{2\,th}$ | | | | | | | 69 | 143 | 53 | 106 |
| 32.800 | 550 | 0.58 | $M_2$ | | | | 95 | 118 | 140 | | | | |
| | | | c | | | | 4.7 | 3.7 | 3.1 | | | | |
| | | | $n_{2\,Eck}$ | | | | 114 | 124 | 124 | | | | |
| | | | $n_{2\,th}$ | | | | 114 | 123 | 123 | | | | |
| 32.800 | 641 | 0.58 | $M_2$ | | | | | | | 170 | 133 | 315 | 251 |
| | | | c | | | | | | | 3.7 | 3.8 | 2.0 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | 60 | 124 | 46 | 92 |
| | | | $n_{2\,th}$ | | | | | | | 59 | 123 | 46 | 91 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 657$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GFL06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | 139 | 114 | 246 | 216 | 357 | 267 | 468 | 327 | $M_2$ | | | |
| | | | 4.5 | 4.1 | 2.6 | 2.3 | 1.8 | 1.9 | 1.4 | 1.5 | c | 1.68 | 643 | 16.128 |
| | | | 93 | 223 | 93 | 200 | 93 | 200 | 84 | 200 | $n_{2\,Eck}$ | | | |
| | | | 93 | 211 | 93 | 188 | 93 | 176 | 84 | 157 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 1.57 | 526 | 18.169 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 129 | 235 | 191 | 158 | 129 | 279 | 245 | 403 | 302 | 528 | 369 | $M_2$ | | | |
| 3.4 | 2.3 | 2.2 | 3.7 | 3.4 | 2.1 | 1.9 | 1.5 | 1.5 | 1.1 | 1.3 | c | 1.57 | 600 | 18.169 |
| 194 | 107 | 223 | 83 | 198 | 83 | 178 | 83 | 178 | 74 | 178 | $n_{2\,Eck}$ | | | |
| 181 | 107 | 166 | 83 | 181 | 83 | 158 | 83 | 141 | 74 | 127 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 1.19 | 501 | 20.571 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 146 | 266 | 217 | 179 | 146 | 316 | 277 | 457 | 342 | 598 | 418 | $M_2$ | | | |
| 3.2 | 2.2 | 2.1 | 3.5 | 3.2 | 2.0 | 1.8 | 1.4 | 1.5 | 1.1 | 1.2 | c | 1.19 | 645 | 20.571 |
| 171 | 95 | 197 | 73 | 175 | 73 | 157 | 73 | 157 | 66 | 157 | $n_{2\,Eck}$ | | | |
| 171 | 95 | 162 | 73 | 175 | 73 | 152 | 73 | 138 | 66 | 126 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 1.13 | 565 | 23.175 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 166 | 301 | 245 | 203 | 166 | 357 | 313 | 516 | 386 | | | $M_2$ | | | |
| 2.7 | 1.8 | 1.8 | 2.9 | 2.7 | 1.7 | 1.5 | 1.2 | 1.2 | | | c | 1.13 | 604 | 23.175 |
| 152 | 84 | 175 | 65 | 155 | 65 | 139 | 65 | 139 | | | $n_{2\,Eck}$ | | | |
| 150 | 84 | 134 | 65 | 150 | 65 | 123 | 65 | 113 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 0.90 | 527 | 25.200 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 180 | 327 | 266 | 221 | 180 | 389 | 340 | 561 | 419 | | 513 | $M_2$ | | | |
| 3.0 | 2.0 | 2.0 | 2.9 | 3.0 | 1.7 | 1.7 | 1.2 | 1.4 | | 1.1 | c | 0.90 | 651 | 25.200 |
| 140 | 77 | 161 | 60 | 143 | 60 | 128 | 60 | 128 | | 128 | $n_{2\,Eck}$ | | | |
| 140 | 77 | 154 | 60 | 142 | 60 | 128 | 60 | 127 | | 115 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 0.86 | 594 | 28.389 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 203 | 369 | 301 | 250 | 203 | 439 | 384 | | 473 | | | $M_2$ | | | |
| 2.5 | 1.6 | 1.6 | 2.4 | 2.5 | 1.4 | 1.4 | | 1.1 | | | c | 0.86 | 607 | 28.389 |
| 124 | 69 | 143 | 53 | 127 | 53 | 114 | | 114 | | | $n_{2\,Eck}$ | | | |
| 124 | 69 | 123 | 53 | 126 | 53 | 113 | | 103 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 0.58 | 550 | 32.800 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 235 | 427 | 348 | | | | | | | | | $M_2$ | | | |
| 2.3 | 1.5 | 1.5 | | | | | | | | | c | 0.58 | 641 | 32.800 |
| 108 | 60 | 124 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 107 | 59 | 119 | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

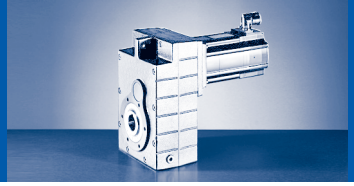
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 657$ Nm

| GFL06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 36.951 | 611 | 0.56 | $M_2$ | | | | 107 | 132 | 158 | 193 | 151 | 356 | 284 |
| | | | c | | | | 4.6 | 3.7 | 3.1 | 3.1 | 3.2 | 1.7 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | 102 | 110 | 110 | 53 | 110 | 41 | 81 |
| | | | $n_{2\,th}$ | | | | 101 | 110 | 110 | 53 | 110 | 41 | 81 |
| 40.800 | 386 | 0.43 | $M_2$ | | 57 | | | | | | | | |
| | | | c | | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 99 | | | | | | | | |
| | | | $n_{2\,th}$ | | 99 | | | | | | | | |
| 40.800 | 571 | 0.43 | $M_2$ | | | 87 | 119 | 147 | 175 | | | | |
| | | | c | | | 5.1 | 3.9 | 3.1 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | | | 99 | 92 | 99 | 99 | | | | |
| | | | $n_{2\,th}$ | | | 99 | 92 | 99 | 99 | | | | |
| 40.800 | 657 | 0.43 | $M_2$ | | | | | | | 213 | 166 | 393 | 314 |
| | | | c | | | | | | | 3.0 | 3.2 | 1.7 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 48 | 99 | 37 | 74 |
| | | | $n_{2\,th}$ | | | | | | | 48 | 99 | 37 | 74 |
| 45.963 | 435 | 0.41 | $M_2$ | | 64 | | | | | | | | |
| | | | c | | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 88 | | | | | | | | |
| | | | $n_{2\,th}$ | | 88 | | | | | | | | |
| 45.963 | 613 | 0.41 | $M_2$ | | | 98 | 134 | 166 | 198 | 241 | 189 | 444 | 355 |
| | | | c | | | 4.9 | 3.7 | 3.0 | 2.5 | 2.5 | 2.6 | 1.4 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 88 | 82 | 88 | 88 | 42 | 88 | 33 | 65 |
| | | | $n_{2\,th}$ | | | 88 | 82 | 88 | 88 | 42 | 88 | 33 | 65 |
| 52.800 | 400 | 0.26 | $M_2$ | 59 | 74 | | | | | | | | |
| | | | c | 5.3 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 77 | 77 | | | | | | | | |
| | | | $n_{2\,th}$ | 77 | 77 | | | | | | | | |
| 52.800 | 592 | 0.26 | $M_2$ | | | 114 | 155 | 192 | 228 | | | | |
| | | | c | | | 4.1 | 3.1 | 2.5 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | | | 77 | 71 | 77 | 77 | | | | |
| | | | $n_{2\,th}$ | | | 77 | 71 | 77 | 77 | | | | |
| 59.481 | 451 | 0.25 | $M_2$ | 66 | 84 | | | | | | | | |
| | | | c | 5.3 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 68 | 68 | | | | | | | | |
| | | | $n_{2\,th}$ | 68 | 68 | | | | | | | | |
| 59.481 | 615 | 0.25 | $M_2$ | | | 129 | 175 | 216 | 257 | | | | |
| | | | c | | | 3.8 | 2.9 | 2.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | | | 68 | 63 | 68 | 68 | | | | |
| | | | $n_{2\,th}$ | | | 68 | 63 | 68 | 68 | | | | |
| 64.080 | 405 | 0.19 | $M_2$ | 72 | 91 | | | | | | | | |
| | | | c | 4.4 | 3.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 63 | 63 | | | | | | | | |
| | | | $n_{2\,th}$ | 63 | 63 | | | | | | | | |
| 64.080 | 576 | 0.19 | $M_2$ | | | 140 | 190 | 234 | 278 | | | | |
| | | | c | | | 3.3 | 2.5 | 2.0 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | | | 63 | 59 | 63 | 63 | | | | |
| | | | $n_{2\,th}$ | | | 63 | 59 | 63 | 63 | | | | |
| 72.189 | 456 | 0.19 | $M_2$ | 81 | 102 | | | | | | | | |
| | | | c | 4.9 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 56 | 56 | | | | | | | | |
| | | | $n_{2\,th}$ | 56 | 56 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 657$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GFL06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 266<br>1.9<br>95<br>95 | 483<br>1.3<br>53<br>53 | 393<br>1.3<br>110<br>99 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.56 | 611 | 36.951 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.43 | 386 | 40.800 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.43 | 571 | 40.800 |
| 294<br>1.9<br>86<br>86 | 533<br>1.2<br>48<br>48 | 434<br>1.2<br>99<br>99 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.43 | 657 | 40.800 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.41 | 435 | 45.963 |
| 333<br>1.6<br>77<br>77 | 602<br>1.0<br>42<br>42 | 490<br>1.0<br>88<br>86 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.41 | 613 | 45.963 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.26 | 400 | 52.800 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.26 | 592 | 52.800 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.25 | 451 | 59.481 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.25 | 615 | 59.481 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.19 | 405 | 64.080 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.19 | 576 | 64.080 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.19 | 456 | 72.189 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

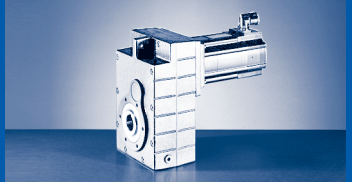
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 657$ Nm

| GFL06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 72.189 | 616 | 0.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 157<br>3.5<br>56<br>56 | 213<br>2.6<br>52<br>52 | 263<br>2.1<br>56<br>56 | 313<br>1.8<br>56<br>56 | | | | |
| 81.000 | 400 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 92<br>3.8<br>50<br>50 | 115<br>3.1<br>50<br>50 | | | | | | | | |
| 91.250 | 451 | 0.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 103<br>3.8<br>44<br>44 | 130<br>3.1<br>44<br>44 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 657$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GFL06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.19 | 616 | 72.189 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.13 | 400 | 81.000 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.12 | 451 | 91.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

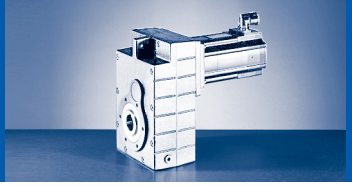
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 634$ Nm

| GFL06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 66.213 | 497 | 0.29 | $M_2$ | | 72 | 91 | 142 | 193 | 238 | 283 |
| | | | c | | 5.9 | 4.7 | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 61 | 61 | 61 | 57 | 61 | 61 |
| | | | $n_{2\,th}$ | | 61 | 61 | 61 | 57 | 61 | 61 |
| 72.000 | 497 | 0.26 | $M_2$ | | 79 | 100 | 155 | 211 | 260 | 308 |
| | | | c | | 5.4 | 4.4 | 2.8 | 2.2 | 1.7 | 1.5 |
| | | | $n_{2\,Eck}$ | | 56 | 56 | 56 | 52 | 56 | 56 |
| | | | $n_{2\,th}$ | | 56 | 56 | 56 | 52 | 56 | 56 |
| 81.111 | 497 | 0.26 | $M_2$ | | 89 | 113 | 175 | 238 | 293 | 348 |
| | | | c | | 4.8 | 3.9 | 2.5 | 1.9 | 1.5 | 1.3 |
| | | | $n_{2\,Eck}$ | | 50 | 50 | 50 | 46 | 50 | 50 |
| | | | $n_{2\,th}$ | | 50 | 50 | 50 | 46 | 50 | 50 |
| 88.200 | 488 | 0.19 | $M_2$ | | 98 | 123 | 191 | 259 | 319 | 379 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 46 | 46 | 46 | 43 | 46 | 46 |
| | | | $n_{2\,th}$ | | 46 | 46 | 46 | 43 | 46 | 46 |
| 99.361 | 550 | 0.19 | $M_2$ | | 110 | 139 | 215 | 292 | 359 | 427 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 41 | 41 | 41 | 38 | 41 | 41 |
| | | | $n_{2\,th}$ | | 41 | 41 | 41 | 38 | 41 | 41 |
| 116.571 | 528 | 0.09 | $M_2$ | | 130 | 164 | | | | |
| | | | c | | 3.6 | 2.9 | | | | |
| | | | $n_{2\,Eck}$ | | 35 | 35 | | | | |
| | | | $n_{2\,th}$ | | 35 | 35 | | | | |
| 131.323 | 595 | 0.21 | $M_2$ | | 147 | 185 | 286 | 387 | 476 | |
| | | | c | | 3.6 | 2.9 | 1.9 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 31 | 31 | 31 | 29 | 31 | |
| | | | $n_{2\,th}$ | | 31 | 31 | 31 | 29 | 31 | |
| 144.320 | 560 | 0.11 | $M_2$ | | 162 | 204 | | | | |
| | | | c | | 3.1 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | | 28 | 28 | | | | |
| | | | $n_{2\,th}$ | | 28 | 28 | | | | |
| 162.583 | 613 | 0.11 | $M_2$ | 88 | 183 | 230 | | | | |
| | | | c | 6.0 | 3.0 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | 25 | 25 | 25 | | | | |
| | | | $n_{2\,th}$ | 25 | 25 | 25 | | | | |
| 179.520 | 605 | 0.10 | $M_2$ | 98 | 202 | 254 | | | | |
| | | | c | 5.3 | 2.7 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 23 | 23 | 23 | | | | |
| | | | $n_{2\,th}$ | 23 | 23 | 23 | | | | |
| 202.237 | 611 | 0.10 | $M_2$ | 111 | 229 | 287 | | | | |
| | | | c | 4.8 | 2.4 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 20 | 20 | 20 | | | | |
| | | | $n_{2\,th}$ | 20 | 20 | 20 | | | | |
| 231.200 | 634 | 0.07 | $M_2$ | 128 | 262 | 329 | | | | |
| | | | c | 4.3 | 2.2 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 18 | 18 | 18 | | | | |
| | | | $n_{2\,th}$ | 18 | 18 | 18 | | | | |
| 260.457 | 613 | 0.07 | $M_2$ | 145 | 296 | 371 | | | | |
| | | | c | 3.7 | 1.9 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 16 | 16 | 16 | | | | |
| | | | $n_{2\,th}$ | 16 | 16 | 16 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 634$ Nm

| GFL06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 299.200 | 613 | 0.06 | $M_2$ | 168 | 341 | 428 | | | | |
| | | | c | 3.2 | 1.6 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 14 | 14 | 14 | | | | |
| | | | $n_{2\,th}$ | 14 | 14 | 14 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

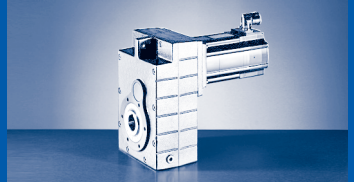
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 3.350 | 334 | 19.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 3.350 | 554 | 19.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.643 | 410 | 11.99 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 4.643 | 637 | 11.99 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.159 | 514 | 11.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.159 | 850 | 11.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.695 | 568 | 18.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 5.695 | 914 | 18.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 6.400 | 296 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 60<br>4.8<br>234<br>234 | 48<br>4.7<br>469<br>457 | 45<br>4.8<br>551<br>458 | 82<br>3.2<br>305<br>305 | 67<br>3.1<br>633<br>420 | |
| 6.400 | 460 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 6.400 | 662 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 7.150 | 631 | 11.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 7.150 | 918 | 11.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | 43 | 72 | 54 | 95 | 66 | | | | | | | $M_2$ | 19.57 | 334 | 3.350 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 963 | 448 | 963 | 403 | 963 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 671 | 448 | 643 | 403 | 615 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | 126 | 91 | 162 | 101 | $M_2$ | 19.57 | 554 | 3.350 |
| | | | | | | | | | 4.3 | 4.7 | 3.3 | 4.2 | c | | | |
| | | | | | | | | | 425 | 896 | 403 | 896 | $n_{2\,Eck}$ | | | |
| | | | | | | | | | 425 | 644 | 403 | 630 | $n_{2\,th}$ | | | |
| | 69 | 60 | 100 | 75 | 132 | 92 | | | | | | | $M_2$ | 11.99 | 410 | 4.643 |
| | 5.7 | 5.0 | 4.0 | 4.1 | 3.0 | 3.4 | | | | | | | c | | | |
| | 323 | 695 | 323 | 695 | 291 | 695 | | | | | | | $n_{2\,Eck}$ | | | |
| | 323 | 543 | 323 | 520 | 291 | 498 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 116 | 90 | 175 | 127 | 226 | 140 | $M_2$ | 11.99 | 637 | 4.643 |
| | | | | | | | 5.2 | 5.3 | 3.5 | 3.9 | 2.8 | 3.5 | c | | | |
| | | | | | | | 307 | 646 | 307 | 646 | 291 | 646 | $n_{2\,Eck}$ | | | |
| | | | | | | | 307 | 476 | 307 | 476 | 291 | 476 | $n_{2\,th}$ | | | |
| | | 67 | 111 | 83 | 146 | 102 | | | | | | | $M_2$ | 11.12 | 514 | 5.159 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 625 | 291 | 625 | 262 | 625 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 436 | 291 | 417 | 262 | 399 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | 194 | 140 | 249 | 155 | $M_2$ | 11.12 | 850 | 5.159 |
| | | | | | | | | | 4.2 | 4.7 | 3.3 | 4.2 | c | | | |
| | | | | | | | | | 276 | 582 | 262 | 582 | $n_{2\,Eck}$ | | | |
| | | | | | | | | | 276 | 418 | 262 | 409 | $n_{2\,th}$ | | | |
| | | 74 | 123 | 91 | 162 | 113 | | | | | | | $M_2$ | 18.09 | 568 | 5.695 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 566 | 263 | 566 | 237 | 566 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 395 | 263 | 378 | 237 | 362 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | 214 | 154 | 275 | 171 | $M_2$ | 18.09 | 914 | 5.695 |
| | | | | | | | | | 4.1 | 4.5 | 3.2 | 4.1 | c | | | |
| | | | | | | | | | 250 | 527 | 237 | 527 | $n_{2\,Eck}$ | | | |
| | | | | | | | | | 250 | 376 | 237 | 368 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 9.83 | 296 | 6.400 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 96 | 84 | 140 | 104 | 183 | 128 | | | | | | | $M_2$ | 9.83 | 460 | 6.400 |
| | 4.6 | 4.1 | 3.2 | 3.3 | 2.5 | 2.7 | | | | | | | c | | | |
| | 234 | 504 | 234 | 504 | 211 | 504 | | | | | | | $n_{2\,Eck}$ | | | |
| | 234 | 444 | 234 | 426 | 211 | 408 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 163 | 126 | 244 | 177 | 313 | 195 | $M_2$ | 9.83 | 662 | 6.400 |
| | | | | | | | 4.0 | 4.0 | 2.7 | 2.9 | 2.1 | 2.7 | c | | | |
| | | | | | | | 223 | 469 | 223 | 469 | 211 | 469 | $n_{2\,Eck}$ | | | |
| | | | | | | | 223 | 345 | 223 | 345 | 211 | 345 | $n_{2\,th}$ | | | |
| | 106 | 93 | 155 | 116 | 204 | 142 | | | | | | | $M_2$ | 11.88 | 631 | 7.150 |
| | 5.7 | 5.0 | 4.0 | 4.1 | 3.0 | 3.4 | | | | | | | c | | | |
| | 210 | 451 | 210 | 451 | 189 | 451 | | | | | | | $n_{2\,Eck}$ | | | |
| | 210 | 352 | 210 | 338 | 189 | 323 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 180 | 140 | 271 | 196 | 348 | 217 | $M_2$ | 11.88 | 918 | 7.150 |
| | | | | | | | 4.9 | 5.0 | 3.3 | 3.6 | 2.6 | 3.3 | c | | | |
| | | | | | | | 199 | 420 | 199 | 420 | 189 | 420 | $n_{2\,Eck}$ | | | |
| | | | | | | | 199 | 309 | 199 | 309 | 189 | 309 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

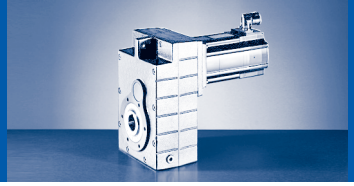
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 8.324 | 830 | 13.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 8.324 | 993 | 13.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.379 | 935 | 12.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.379 | 999 | 12.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.714 | 475 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 90<br>5.0<br>154<br>154 | 72<br>5.0<br>309<br>293 | 68<br>5.1<br>363<br>293 | 124<br>3.4<br>201<br>201 | 101<br>3.3<br>417<br>268 | |
| 9.714 | 745 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.714 | 969 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.538 | 1018 | 8.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.538 | 1080 | 8.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 13.000 | 1089 | 7.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 14.200 | 694 | 6.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 132<br>5.0<br>106<br>106 | 106<br>5.0<br>211<br>200 | 99<br>5.1<br>248<br>201 | 181<br>3.4<br>137<br>137 | 148<br>3.3<br>285<br>184 | |
| 14.200 | 1089 | 6.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 14.200 | 1143 | 6.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | 108 | 179 | 134 | 236 | 165 | | | | | | | $M_2$ | 13.11 | 830 | 8.324 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 387 | 180 | 387 | 162 | 387 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 270 | 180 | 259 | 162 | 247 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 210 | 163 | 316 | 229 | 406 | 253 | $M_2$ | 13.11 | 993 | 8.324 |
| | | | | | | | 4.6 | 4.7 | 3.1 | 3.4 | 2.4 | 3.1 | c | | | |
| | | | | | | | 171 | 360 | 171 | 360 | 162 | 360 | $n_{2\,Eck}$ | | | |
| | | | | | | | 171 | 259 | 171 | 241 | 162 | 235 | $n_{2\,th}$ | | | |
| | | 121 | 202 | 151 | 266 | 186 | | | | | | | $M_2$ | 12.04 | 935 | 9.379 |
| | | 5.7 | 4.5 | 4.6 | 3.4 | 3.8 | | | | | | | c | | | |
| | | 344 | 160 | 344 | 144 | 344 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 240 | 160 | 229 | 144 | 219 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 238 | 185 | 357 | 258 | 459 | 286 | $M_2$ | 12.04 | 999 | 9.379 |
| | | | | | | | 4.1 | 4.2 | 2.8 | 3.0 | 2.2 | 2.7 | c | | | |
| | | | | | | | 152 | 320 | 152 | 320 | 144 | 320 | $n_{2\,Eck}$ | | | |
| | | | | | | | 152 | 224 | 152 | 208 | 144 | 203 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 8.03 | 475 | 9.714 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 145 | 127 | 211 | 158 | 278 | 194 | | | | | | | $M_2$ | 8.03 | 745 | 9.714 |
| | 4.9 | 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| | 154 | 332 | 154 | 332 | 139 | 332 | | | | | | | $n_{2\,Eck}$ | | | |
| | 154 | 285 | 154 | 273 | 139 | 261 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 247 | 192 | 371 | 268 | 476 | 297 | $M_2$ | 8.03 | 969 | 9.714 |
| | | | | | | | 3.8 | 3.9 | 2.6 | 2.8 | 2.0 | 2.6 | c | | | |
| | | | | | | | 147 | 309 | 147 | 309 | 139 | 309 | $n_{2\,Eck}$ | | | |
| | | | | | | | 147 | 228 | 147 | 228 | 139 | 228 | $n_{2\,th}$ | | | |
| | 170 | 150 | 250 | 186 | 329 | 229 | | | | | | | $M_2$ | 8.52 | 1018 | 11.538 |
| | 5.7 | 5.0 | 4.0 | 4.1 | 3.0 | 3.4 | | | | | | | c | | | |
| | 130 | 280 | 130 | 280 | 117 | 280 | | | | | | | $n_{2\,Eck}$ | | | |
| | 130 | 218 | 130 | 209 | 117 | 200 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 294 | 229 | 441 | 319 | 566 | 353 | $M_2$ | 8.52 | 1080 | 11.538 |
| | | | | | | | 3.6 | 3.7 | 2.4 | 2.6 | 1.9 | 2.4 | c | | | |
| | | | | | | | 124 | 260 | 124 | 260 | 117 | 260 | $n_{2\,Eck}$ | | | |
| | | | | | | | 124 | 192 | 124 | 190 | 117 | 186 | $n_{2\,th}$ | | | |
| | 193 | 170 | 282 | 210 | 371 | 259 | 333 | 259 | 498 | 361 | 639 | 399 | $M_2$ | 7.97 | 1089 | 13.000 |
| | 5.4 | 4.8 | 3.8 | 3.9 | 2.9 | 3.2 | 3.2 | 3.3 | 2.2 | 2.4 | 1.7 | 2.1 | c | | | |
| | 115 | 248 | 115 | 248 | 104 | 248 | 110 | 231 | 110 | 231 | 104 | 231 | $n_{2\,Eck}$ | | | |
| | 115 | 192 | 115 | 184 | 104 | 176 | 110 | 170 | 110 | 164 | 104 | 160 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 6.35 | 694 | 14.200 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 211 | 186 | 309 | 231 | 406 | 284 | | | | | | | $M_2$ | 6.35 | 1089 | 14.200 |
| | 4.9 | 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| | 106 | 227 | 106 | 227 | 95 | 227 | | | | | | | $n_{2\,Eck}$ | | | |
| | 106 | 195 | 106 | 187 | 95 | 179 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 364 | 283 | 545 | 394 | 698 | 436 | $M_2$ | 6.35 | 1143 | 14.200 |
| | | | | | | | 3.1 | 3.1 | 2.1 | 2.3 | 1.6 | 2.1 | c | | | |
| | | | | | | | 100 | 211 | 100 | 211 | 95 | 211 | $n_{2\,Eck}$ | | | |
| | | | | | | | 100 | 156 | 100 | 156 | 95 | 156 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

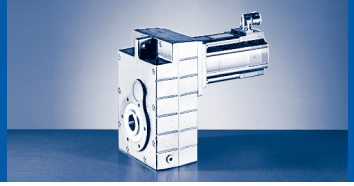
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 15.904 | 735 | 5.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 148<br>4.8<br>94<br>94 | 119<br>4.7<br>189<br>184 | 111<br>4.8<br>222<br>184 | 204<br>3.2<br>123<br>123 | 166<br>3.1<br>255<br>169 | |
| 15.904 | 1143 | 5.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 15.904 | 1179 | 5.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 17.920 | 829 | 4.98 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 167<br>4.8<br>84<br>84 | 134<br>4.7<br>167<br>163 | 125<br>4.8<br>197<br>164 | 229<br>3.2<br>109<br>109 | 187<br>3.1<br>226<br>150 | |
| 17.920 | 1189 | 4.98 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 20.286 | 614 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 71<br>5.9<br>200<br>175 | 85<br>5.0<br>200<br>170 | | | | | | | | |
| 20.286 | 789 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 191<br>4.0<br>74<br>74 | 153<br>4.0<br>148<br>148 | 143<br>4.0<br>174<br>163 | 261<br>2.7<br>96<br>96 | 213<br>2.6<br>200<br>150 | |
| 20.286 | 1092 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 22.857 | 691 | 3.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 80<br>5.9<br>177<br>155 | 96<br>5.0<br>177<br>151 | | | | | | | | |
| 22.857 | 890 | 3.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 215<br>4.0<br>66<br>66 | 172<br>4.0<br>131<br>131 | 161<br>4.0<br>154<br>145 | 294<br>2.7<br>85<br>85 | 240<br>2.6<br>177<br>133 | |
| 22.857 | 1231 | 3.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 24.850 | 831 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 235<br>3.5<br>60<br>60 | 187<br>3.9<br>121<br>121 | 175<br>3.9<br>142<br>142 | 320<br>2.6<br>79<br>78 | 261<br>2.6<br>163<br>133 | |
| 24.850 | 1289 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 211<br>5.8<br>60<br>60 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.27 | 735 | 15.904 |
| | 238<br>4.6<br>94<br>94 | 209<br>4.1<br>203<br>179 | 347<br>3.2<br>94<br>94 | 259<br>3.3<br>203<br>171 | 456<br>2.5<br>85<br>85 | 318<br>2.7<br>203<br>164 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.27 | 1143 | 15.904 |
| | | | | | | | 409<br>2.8<br>90<br>90 | 318<br>2.9<br>189<br>139 | 611<br>1.9<br>90<br>90 | 442<br>2.1<br>189<br>139 | 783<br>1.5<br>85<br>85 | 489<br>1.9<br>189<br>139 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.27 | 1179 | 15.904 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.98 | 829 | 17.920 |
| | 269<br>4.3<br>84<br>84 | 236<br>3.8<br>180<br>156 | 392<br>3.0<br>84<br>84 | 293<br>3.1<br>180<br>150 | 515<br>2.3<br>75<br>75 | 359<br>2.5<br>180<br>143 | 462<br>2.5<br>80<br>80 | 359<br>2.6<br>167<br>123 | 690<br>1.7<br>80<br>80 | 500<br>1.9<br>167<br>123 | 884<br>1.3<br>75<br>75 | 552<br>1.7<br>167<br>123 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.98 | 1189 | 17.920 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.47 | 614 | 20.286 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.47 | 789 | 20.286 |
| 141<br>5.5<br>178<br>173 | 307<br>3.5<br>74<br>74 | 270<br>3.1<br>159<br>155 | 446<br>2.4<br>74<br>74 | 333<br>2.5<br>159<br>148 | 585<br>1.9<br>67<br>67 | 409<br>2.1<br>159<br>142 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.47 | 1092 | 20.286 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.27 | 691 | 22.857 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.27 | 890 | 22.857 |
| 159<br>5.5<br>158<br>154 | 346<br>3.5<br>66<br>66 | 304<br>3.1<br>141<br>137 | 503<br>2.4<br>66<br>66 | 376<br>2.5<br>141<br>131 | 659<br>1.9<br>59<br>59 | 461<br>2.1<br>141<br>126 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.27 | 1231 | 22.857 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.65 | 831 | 24.850 |
| | 376<br>3.3<br>60<br>60 | 329<br>3.4<br>130<br>130 | 547<br>2.3<br>60<br>60 | 407<br>2.7<br>130<br>130 | 717<br>1.8<br>54<br>54 | 500<br>2.2<br>130<br>130 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.65 | 1289 | 24.850 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

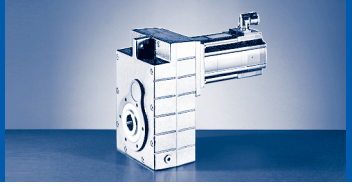
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 28.000 | 936 | 2.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 265<br>3.5<br>54<br>54 | 211<br>3.9<br>107<br>107 | 198<br>3.9<br>126<br>126 | 361<br>2.6<br>70<br>70 | 294<br>2.6<br>145<br>118 | |
| 28.000 | 1242 | 2.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 240<br>5.0<br>54<br>54 |
| 32.344 | 674 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 92<br>5.8<br>116<br>116 | 115<br>4.6<br>125<br>125 | 137<br>3.9<br>125<br>125 | | | | | | | | |
| 32.344 | 868 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 165<br>5.0<br>60<br>60 | 129<br>5.3<br>125<br>125 | 308<br>2.8<br>46<br>46 | 246<br>3.1<br>93<br>93 | 230<br>3.2<br>109<br>109 | 419<br>2.1<br>60<br>60 | 341<br>2.1<br>125<br>120 | |
| 32.344 | 1346 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 278<br>4.7<br>46<br>46 |
| 36.444 | 760 | 1.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 104<br>5.8<br>103<br>103 | 129<br>4.6<br>111<br>111 | 154<br>3.9<br>111<br>111 | | | | | | | | |
| 36.444 | 978 | 1.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 186<br>5.0<br>54<br>54 | 145<br>5.3<br>111<br>111 | 347<br>2.8<br>41<br>41 | 277<br>3.1<br>82<br>82 | 259<br>3.2<br>97<br>97 | 472<br>2.1<br>54<br>54 | 385<br>2.1<br>111<br>106 | |
| 36.444 | 1248 | 1.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 316<br>3.8<br>41<br>41 |
| 39.642 | 707 | 1.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 114<br>5.0<br>95<br>95 | 142<br>4.0<br>102<br>102 | 169<br>3.3<br>102<br>102 | | | | | | | | |
| 39.642 | 910 | 1.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 204<br>4.3<br>49<br>49 | 159<br>4.5<br>102<br>102 | 379<br>2.4<br>38<br>38 | 302<br>2.7<br>76<br>76 | 283<br>2.7<br>89<br>89 | 515<br>1.8<br>49<br>49 | 420<br>1.8<br>102<br>102 | |
| 39.642 | 1378 | 1.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 343<br>3.9<br>38<br>38 |
| 44.667 | 797 | 1.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 129<br>5.0<br>84<br>84 | 160<br>4.0<br>91<br>91 | 190<br>3.3<br>91<br>91 | | | | | | | | |
| 44.667 | 1025 | 1.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 230<br>4.3<br>44<br>44 | 180<br>4.5<br>91<br>91 | 427<br>2.4<br>34<br>34 | 341<br>2.7<br>67<br>67 | 319<br>2.7<br>79<br>79 | 581<br>1.8<br>44<br>44 | 473<br>1.8<br>91<br>91 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.53 | 936 | 28.000 |
| 195<br>5.2<br>129<br>128 | 426<br>2.9<br>54<br>54 | 373<br>2.9<br>115<br>115 | 618<br>2.0<br>54<br>54 | 461<br>2.3<br>115<br>115 | 811<br>1.5<br>48<br>48 | 565<br>1.9<br>115<br>111 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.53 | 1242 | 28.000 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.69 | 674 | 32.344 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.69 | 868 | 32.344 |
| 226<br>4.9<br>111<br>111 | 493<br>2.7<br>46<br>46 | 432<br>2.7<br>100<br>100 | 715<br>1.9<br>46<br>46 | 533<br>2.2<br>100<br>100 | 937<br>1.4<br>42<br>42 | 654<br>1.8<br>100<br>100 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.69 | 1346 | 32.344 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.61 | 760 | 36.444 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.61 | 978 | 36.444 |
| 257<br>4.0<br>99<br>99 | 559<br>2.2<br>41<br>41 | 489<br>2.2<br>89<br>88 | 809<br>1.5<br>41<br>41 | 603<br>1.8<br>89<br>88 | 1059<br>1.2<br>37<br>37 | 739<br>1.5<br>89<br>88 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.61 | 1248 | 36.444 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 707 | 39.642 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 910 | 39.642 |
| 279<br>4.1<br>91<br>91 | 608<br>2.2<br>38<br>38 | 532<br>2.3<br>81<br>81 | 880<br>1.6<br>38<br>38 | 656<br>1.8<br>81<br>81 | 1152<br>1.2<br>34<br>34 | 804<br>1.5<br>81<br>81 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 1378 | 39.642 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.20 | 797 | 44.667 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.20 | 1025 | 44.667 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

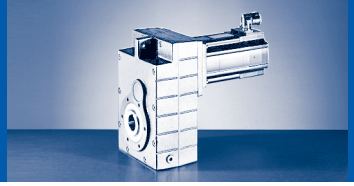
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 44.667 | 1258 | 1.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 390<br>3.2<br>34<br>34 |
| 52.067 | 726 | 0.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 111<br>5.1<br>78<br>78 | 152<br>3.9<br>72<br>72 | 188<br>3.1<br>78<br>72 | 224<br>2.6<br>78<br>78 | | | | | | | | |
| 52.067 | 935 | 0.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 271<br>3.4<br>38<br>37 | 212<br>3.5<br>78<br>78 | 501<br>1.9<br>29<br>29 | 400<br>2.1<br>58<br>58 | 375<br>2.1<br>68<br>68 | 679<br>1.4<br>38<br>37 | 554<br>1.4<br>78<br>78 | |
| 58.667 | 819 | 0.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 125<br>5.1<br>69<br>69 | 171<br>3.9<br>64<br>64 | 212<br>3.1<br>69<br>69 | 252<br>2.6<br>69<br>69 | | | | | | | | |
| 58.667 | 1054 | 0.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 305<br>3.4<br>33<br>33 | 238<br>3.5<br>69<br>69 | 564<br>1.9<br>26<br>26 | 450<br>2.1<br>51<br>51 | 422<br>2.1<br>60<br>60 | 765<br>1.4<br>33<br>33 | 624<br>1.4<br>69<br>69 | |
| 63.190 | 735 | 0.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 136<br>4.3<br>64<br>64 | 186<br>3.2<br>59<br>59 | 229<br>2.6<br>64<br>64 | 273<br>2.2<br>64<br>64 | | | | | | | | |
| 63.190 | 946 | 0.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 331<br>2.8<br>31<br>31 | 258<br>2.9<br>64<br>64 | 610<br>1.5<br>24<br>24 | 487<br>1.7<br>48<br>47 | 456<br>1.8<br>56<br>56 | 826<br>1.1<br>31<br>31 | 673<br>1.2<br>64<br>64 | |
| 71.200 | 828 | 0.56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 153<br>4.7<br>57<br>57 | 208<br>3.6<br>53<br>53 | 257<br>2.9<br>57<br>57 | 306<br>2.4<br>57<br>57 | | | | | | | | |
| 71.200 | 1066 | 0.56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 373<br>2.8<br>27<br>27 | 290<br>3.3<br>57<br>57 | 687<br>1.5<br>21<br>21 | 547<br>1.9<br>42<br>42 | 513<br>2.0<br>50<br>50 | 931<br>1.1<br>27<br>27 | 758<br>1.3<br>57<br>57 | |
| 79.875 | 744 | 0.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 173<br>3.8<br>51<br>51 | 236<br>2.9<br>47<br>47 | 291<br>2.3<br>51<br>51 | 345<br>1.9<br>51<br>51 | | | | | | | | |
| 90.000 | 839 | 0.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 195<br>3.8<br>45<br>45 | 265<br>2.9<br>42<br>42 | 327<br>2.3<br>45<br>45 | 389<br>1.9<br>45<br>45 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 317 | 688 | 602 | 994 | 742 | | 908 | | | | | | | $M_2$ | 1.20 | 1258 | 44.667 |
| 3.3 | 1.8 | 1.8 | 1.3 | 1.5 | | 1.2 | | | | | | | c | | | |
| 81 | 34 | 72 | 34 | 72 | | 72 | | | | | | | $n_{2\,Eck}$ | | | |
| 80 | 34 | 72 | 34 | 72 | | 72 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.78 | 726 | 52.067 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.78 | 935 | 52.067 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.75 | 819 | 58.667 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.75 | 1054 | 58.667 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.57 | 735 | 63.190 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.57 | 946 | 63.190 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.56 | 828 | 71.200 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.56 | 1066 | 71.200 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.37 | 744 | 79.875 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.36 | 839 | 90.000 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

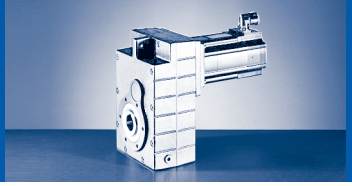
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 65.306 | 883 | 0.79 | $M_2$ | | | | 137 | 187 | 231 | 275 |
| | | | c | | | | 5.6 | 4.2 | 3.4 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | 62 | 57 | 62 | 62 |
| | | | $n_{2\,th}$ | | | | 62 | 57 | 62 | 62 |
| 72.452 | 869 | 0.89 | $M_2$ | | | | 153 | 208 | 258 | 307 |
| | | | c | | | | 4.9 | 3.8 | 3.0 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | 56 | 52 | 56 | 56 |
| | | | $n_{2\,th}$ | | | | 56 | 52 | 56 | 56 |
| 81.636 | 979 | 0.88 | $M_2$ | | | | 172 | 235 | 290 | 345 |
| | | | c | | | | 4.9 | 3.8 | 3.0 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | 50 | 46 | 50 | 50 |
| | | | $n_{2\,th}$ | | | | 50 | 46 | 50 | 50 |
| 92.413 | 961 | 0.61 | $M_2$ | | | | 196 | 267 | 330 | 392 |
| | | | c | | | | 4.3 | 3.3 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 44 | 41 | 44 | 44 |
| | | | $n_{2\,th}$ | | | | 44 | 41 | 44 | 44 |
| 104.127 | 1082 | 0.60 | $M_2$ | | | | 221 | 301 | 372 | 442 |
| | | | c | | | | 4.3 | 3.3 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 39 | 36 | 39 | 39 |
| | | | $n_{2\,th}$ | | | | 39 | 36 | 39 | 39 |
| 113.206 | 1040 | 0.45 | $M_2$ | | | 154 | 242 | 329 | 406 | 482 |
| | | | c | | | 5.8 | 3.8 | 2.9 | 2.3 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 36 | 36 | 33 | 36 | 36 |
| | | | $n_{2\,th}$ | | | 36 | 36 | 33 | 36 | 36 |
| 127.556 | 1171 | 0.44 | $M_2$ | | | 174 | 272 | 370 | 457 | 543 |
| | | | c | | | 5.8 | 3.8 | 2.9 | 2.3 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 32 | 32 | 29 | 32 | 32 |
| | | | $n_{2\,th}$ | | | 32 | 32 | 29 | 32 | 32 |
| 147.347 | 1140 | 0.28 | $M_2$ | | | 203 | 316 | 430 | 530 | 630 |
| | | | c | | | 4.9 | 3.2 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 28 | 28 | 26 | 28 | 28 |
| | | | $n_{2\,th}$ | | | 27 | 27 | 25 | 27 | 27 |
| 166.025 | 1248 | 0.27 | $M_2$ | | 181 | 229 | 357 | 485 | 597 | 710 |
| | | | c | | 5.9 | 4.8 | 3.1 | 2.4 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 24 | 24 | 24 | 23 | 24 | 24 |
| | | | $n_{2\,th}$ | | 24 | 24 | 24 | 23 | 24 | 24 |
| 183.285 | 1236 | 0.19 | $M_2$ | | 201 | 254 | 395 | 537 | 661 | 785 |
| | | | c | | 5.3 | 4.3 | 2.8 | 2.1 | 1.7 | 1.4 |
| | | | $n_{2\,Eck}$ | | 22 | 22 | 22 | 21 | 22 | 22 |
| | | | $n_{2\,th}$ | | 22 | 22 | 22 | 20 | 22 | 22 |
| 206.519 | 1248 | 0.19 | $M_2$ | | 227 | 287 | 447 | 606 | 746 | 886 |
| | | | c | | 4.8 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 |
| | | | $n_{2\,Eck}$ | | 20 | 20 | 20 | 18 | 20 | 20 |
| | | | $n_{2\,th}$ | | 20 | 20 | 20 | 18 | 20 | 20 |
| 224.636 | 1343 | 0.18 | $M_2$ | | 248 | 313 | 486 | 659 | 812 | 963 |
| | | | c | | 4.7 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 |
| | | | $n_{2\,Eck}$ | | 18 | 18 | 18 | 17 | 18 | 18 |
| | | | $n_{2\,th}$ | | 18 | 18 | 18 | 17 | 18 | 18 |
| 253.111 | 1258 | 0.18 | $M_2$ | | 281 | 355 | 550 | 745 | 917 | 1088 |
| | | | c | | 3.9 | 3.1 | 2.1 | 1.6 | 1.2 | 1.1 |
| | | | $n_{2\,Eck}$ | | 16 | 16 | 16 | 15 | 16 | 16 |
| | | | $n_{2\,th}$ | | 16 | 16 | 16 | 15 | 16 | 16 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GFL07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 338 | 263 | 621 | 495 | 464 | 842 | 685 | $M_2$ | | | |
| 2.6 | 3.0 | 1.4 | 1.8 | 1.8 | 1.1 | 1.2 | c | | | |
| 30 | 62 | 23 | 46 | 54 | 30 | 62 | $n_{2\,Eck}$ | 0.79 | 883 | 65.306 |
| 30 | 62 | 23 | 46 | 54 | 30 | 62 | $n_{2\,th}$ | | | |
| 376 | 293 | 691 | 551 | 516 | | 761 | $M_2$ | | | |
| 2.3 | 2.6 | 1.3 | 1.6 | 1.6 | | 1.0 | c | | | |
| 27 | 56 | 21 | 41 | 49 | | 56 | $n_{2\,Eck}$ | 0.89 | 869 | 72.452 |
| 27 | 56 | 21 | 41 | 49 | | 46 | $n_{2\,th}$ | | | |
| 423 | 330 | 778 | 620 | 582 | | 858 | $M_2$ | | | |
| 2.3 | 2.6 | 1.3 | 1.6 | 1.6 | | 1.0 | c | | | |
| 24 | 50 | 18 | 37 | 43 | | 50 | $n_{2\,Eck}$ | 0.88 | 979 | 81.636 |
| 24 | 50 | 18 | 37 | 43 | | 41 | $n_{2\,th}$ | | | |
| 481 | 375 | 882 | 704 | 660 | | | $M_2$ | | | |
| 2.0 | 2.3 | 1.1 | 1.4 | 1.4 | | | c | | | |
| 21 | 44 | 16 | 33 | 38 | | | $n_{2\,Eck}$ | 0.61 | 961 | 92.413 |
| 21 | 44 | 16 | 32 | 38 | | | $n_{2\,th}$ | | | |
| 542 | 422 | 994 | 793 | 743 | | | $M_2$ | | | |
| 2.0 | 2.3 | 1.1 | 1.4 | 1.4 | | | c | | | |
| 19 | 39 | 14 | 29 | 34 | | | $n_{2\,Eck}$ | 0.60 | 1082 | 104.127 |
| 19 | 39 | 14 | 29 | 34 | | | $n_{2\,th}$ | | | |
| 590 | 460 | | 864 | 810 | | | $M_2$ | | | |
| 1.8 | 2.0 | | 1.2 | 1.2 | | | c | | | |
| 17 | 36 | | 27 | 31 | | | $n_{2\,Eck}$ | 0.45 | 1040 | 113.206 |
| 17 | 36 | | 27 | 31 | | | $n_{2\,th}$ | | | |
| 665 | 519 | | 973 | 912 | | | $M_2$ | | | |
| 1.8 | 2.0 | | 1.2 | 1.2 | | | c | | | |
| 15 | 32 | | 24 | 28 | | | $n_{2\,Eck}$ | 0.44 | 1171 | 127.556 |
| 15 | 32 | | 24 | 28 | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.28 | 1140 | 147.347 |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.27 | 1248 | 166.025 |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.19 | 1236 | 183.285 |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.19 | 1248 | 206.519 |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.18 | 1343 | 224.636 |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | | | |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | 0.18 | 1258 | 253.111 |
| | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

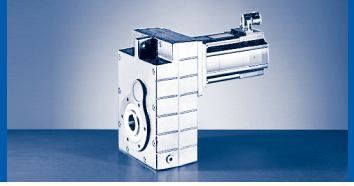
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 290.706 | 1378 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 324<br>3.7<br>14<br>14 | 408<br>3.0<br>14<br>14 | | | | |
| 327.556 | 1258 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 368<br>3.0<br>12<br>12 | 463<br>2.4<br>12<br>12 | | | | |
| 352.811 | 1378 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 396<br>3.1<br>12<br>11 | 498<br>2.5<br>12<br>11 | | | | |
| 397.533 | 1258 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 218<br>5.0<br>10<br>10 | 449<br>2.5<br>10<br>10 | 564<br>2.0<br>10<br>10 | | | | |
| 430.222 | 1270 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 237<br>4.7<br>9<br>9 | 487<br>2.3<br>9<br>9 | 611<br>1.9<br>9<br>9 | | | | |
| 522.133 | 1270 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 291<br>3.8<br>8<br>8 | 593<br>1.9<br>8<br>8 | 744<br>1.5<br>8<br>8 | | | | |
| 562.391 | 1128 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 315<br>3.2<br>7<br>7 | 641<br>1.6<br>7<br>7 | 804<br>1.3<br>7<br>7 | | | | |
| 633.680 | 1220 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 356<br>3.0<br>6<br>6 | 723<br>1.5<br>6<br>6 | 906<br>1.2<br>6<br>6 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GFL07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 1378 | 290.706 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 1258 | 327.556 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.08 | 1378 | 352.811 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.08 | 1258 | 397.533 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.10 | 1270 | 430.222 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.08 | 1270 | 522.133 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.07 | 1128 | 562.391 |
| | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.07 | 1220 | 633.680 |

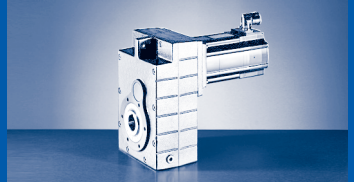
M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2767$ Nm

| GFL09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 6.864 | 1207 | 41.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 7.466 | 1313 | 38.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.010 | 860 | 26.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.010 | 1336 | 26.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.799 | 935 | 25.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.799 | 1453 | 25.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 11.167 | 976 | 19.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 165<br>5.6<br>134<br>134 |
| 11.167 | 1516 | 19.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 12.307 | 2165 | 27.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 14.333 | 1368 | 20.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 14.333 | 2125 | 20.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 16.333 | 1427 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 241<br>5.6<br>92<br>92 |
| 16.333 | 2217 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2767$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | 257 | 185 | 331 | 205 | $M_2$ | 41.30 | 1207 | 6.864 |
| | | | | | | | 4.5 | 5.0 | 3.6 | 4.5 | c | | | |
| | | | | | | | 208 | 437 | 197 | 437 | $n_{2\,Eck}$ | | | |
| | | | | | | | 208 | 294 | 197 | 288 | $n_{2\,th}$ | | | |
| | | | | | | | 279 | 201 | 360 | 223 | $M_2$ | 38.70 | 1313 | 7.466 |
| | | | | | | | 4.5 | 5.0 | 3.6 | 4.5 | c | | | |
| | | | | | | | 191 | 402 | 181 | 402 | $n_{2\,Eck}$ | | | |
| | | | | | | | 191 | 271 | 181 | 265 | $n_{2\,th}$ | | | |
| 117 | 194 | 145 | 256 | 179 | | | | | | | $M_2$ | 26.80 | 860 | 9.010 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 358 | 167 | 358 | 150 | 358 | | | | | | | $n_{2\,Eck}$ | | | |
| 259 | 166 | 249 | 150 | 238 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 225 | 175 | 339 | 245 | 437 | 272 | $M_2$ | 26.80 | 1336 | 9.010 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 158 | 333 | 158 | 333 | 150 | 333 | $n_{2\,Eck}$ | | | |
| | | | | | 158 | 245 | 158 | 245 | 150 | 241 | $n_{2\,th}$ | | | |
| 127 | 211 | 158 | 279 | 194 | | | | | | | $M_2$ | 25.30 | 935 | 9.799 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 329 | 153 | 329 | 138 | 329 | | | | | | | $n_{2\,Eck}$ | | | |
| 239 | 153 | 229 | 138 | 219 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 244 | 190 | 369 | 267 | 475 | 295 | $M_2$ | 25.30 | 1453 | 9.799 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 145 | 306 | 145 | 306 | 138 | 306 | $n_{2\,Eck}$ | | | |
| | | | | | 145 | 226 | 145 | 226 | 138 | 221 | $n_{2\,th}$ | | | |
| 145 | 242 | 180 | 318 | 222 | | | | | | | $M_2$ | 19.50 | 976 | 11.167 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 289 | 134 | 289 | 121 | 289 | | | | | | | $n_{2\,Eck}$ | | | |
| 225 | 134 | 216 | 121 | 207 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 280 | 217 | 422 | 305 | 543 | 338 | $M_2$ | 19.50 | 1516 | 11.167 |
| | | | | | 5.2 | 5.3 | 3.5 | 3.8 | 2.7 | 3.5 | c | | | |
| | | | | | 128 | 269 | 128 | 269 | 121 | 269 | $n_{2\,Eck}$ | | | |
| | | | | | 128 | 198 | 128 | 198 | 121 | 198 | $n_{2\,th}$ | | | |
| | | | | | | | 460 | 332 | 593 | 368 | $M_2$ | 27.60 | 2165 | 12.307 |
| | | | | | | | 4.5 | 5.0 | 3.6 | 4.5 | c | | | |
| | | | | | | | 116 | 244 | 110 | 244 | $n_{2\,Eck}$ | | | |
| | | | | | | | 116 | 164 | 110 | 161 | $n_{2\,th}$ | | | |
| 186 | 309 | 231 | 407 | 284 | | | | | | | $M_2$ | 20.00 | 1368 | 14.333 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 225 | 105 | 225 | 94 | 225 | | | | | | | $n_{2\,Eck}$ | | | |
| 163 | 105 | 156 | 94 | 150 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 357 | 278 | 540 | 390 | 695 | 432 | $M_2$ | 20.00 | 2125 | 14.333 |
| | | | | | 5.7 | 5.8 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | | | | | 99 | 209 | 99 | 209 | 94 | 209 | $n_{2\,Eck}$ | | | |
| | | | | | 99 | 154 | 99 | 154 | 94 | 151 | $n_{2\,th}$ | | | |
| 213 | 354 | 264 | 466 | 325 | | | | | | | $M_2$ | 15.50 | 1427 | 16.333 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 198 | 92 | 198 | 83 | 198 | | | | | | | $n_{2\,Eck}$ | | | |
| 154 | 92 | 147 | 83 | 141 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 409 | 318 | 618 | 446 | 794 | 494 | $M_2$ | 15.50 | 2217 | 16.333 |
| | | | | | 5.2 | 5.3 | 3.5 | 3.8 | 2.7 | 3.5 | c | | | |
| | | | | | 87 | 184 | 87 | 184 | 83 | 184 | $n_{2\,Eck}$ | | | |
| | | | | | 87 | 135 | 87 | 135 | 83 | 135 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

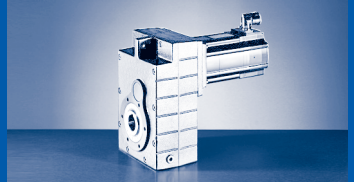
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2767$ Nm

| GFL09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 18.407 | 1608 | 14.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 272<br>5.6<br>82<br>81 |
| 18.407 | 2480 | 14.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 19.667 | 962 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 183<br>5.0<br>76<br>76 | 146<br>5.0<br>153<br>145 | 137<br>5.1<br>179<br>145 | 251<br>3.4<br>99<br>99 | 205<br>3.3<br>206<br>132 | | | |
| 19.667 | 1506 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 293<br>4.9<br>76<br>76 |
| 19.667 | 2339 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 22.164 | 1084 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 206<br>5.0<br>68<br>68 | 165<br>5.0<br>135<br>128 | 155<br>5.1<br>159<br>129 | 283<br>3.4<br>88<br>88 | 231<br>3.3<br>183<br>118 | | | |
| 22.164 | 1697 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 330<br>4.9<br>68<br>68 |
| 22.164 | 2612 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 24.111 | 1585 | 9.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 362<br>4.2<br>62<br>62 |
| 24.111 | 2463 | 9.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 27.173 | 1786 | 8.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 408<br>4.2<br>55<br>55 |
| 27.173 | 2767 | 8.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 32.667 | 1074 | 5.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 309<br>3.4<br>46<br>46 | 246<br>3.8<br>92<br>92 | 231<br>3.9<br>108<br>108 | 421<br>2.5<br>60<br>60 | 343<br>2.5<br>124<br>100 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2767$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 240 | 398 | 298 | 525 | 366 | | | | | | | $M_2$ | 14.60 | 1608 | 18.407 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 175 | 82 | 175 | 73 | 175 | | | | | | | $n_{2\,Eck}$ | | | |
| 137 | 81 | 131 | 73 | 125 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 462 | 359 | 696 | 503 | 895 | 557 | $M_2$ | 14.60 | 2480 | 18.407 |
| | | | | | 5.1 | 5.3 | 3.5 | 3.8 | 2.7 | 3.4 | c | | | |
| | | | | | 77 | 163 | 77 | 163 | 73 | 163 | $n_{2\,Eck}$ | | | |
| | | | | | 77 | 120 | 77 | 120 | 73 | 120 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 12.10 | 962 | 19.667 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 258 | 428 | 320 | 563 | 393 | | | | | | | $M_2$ | 12.10 | 1506 | 19.667 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 164 | 76 | 164 | 69 | 164 | | | | | | | $n_{2\,Eck}$ | | | |
| 141 | 76 | 135 | 69 | 129 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 496 | 386 | 747 | 540 | 959 | 598 | $M_2$ | 12.10 | 2339 | 19.667 |
| | | | | | 4.5 | 4.6 | 3.1 | 3.4 | 2.4 | 3.0 | c | | | |
| | | | | | 73 | 153 | 73 | 153 | 69 | 153 | $n_{2\,Eck}$ | | | |
| | | | | | 72 | 112 | 72 | 112 | 69 | 112 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 11.30 | 1084 | 22.164 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 291 | 482 | 360 | 634 | 443 | | | | | | | $M_2$ | 11.30 | 1697 | 22.164 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 146 | 68 | 146 | 61 | 146 | | | | | | | $n_{2\,Eck}$ | | | |
| 125 | 68 | 119 | 61 | 114 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 560 | 435 | 842 | 609 | 1081 | 674 | $M_2$ | 11.30 | 2612 | 22.164 |
| | | | | | 4.5 | 4.6 | 3.0 | 3.3 | 2.4 | 3.0 | c | | | |
| | | | | | 64 | 135 | 64 | 135 | 61 | 135 | $n_{2\,Eck}$ | | | |
| | | | | | 64 | 100 | 64 | 100 | 61 | 100 | $n_{2\,th}$ | | | |
| 317 | 527 | 392 | 693 | 482 | | | | | | | $M_2$ | 9.04 | 1585 | 24.111 |
| 4.3 | 3.0 | 3.5 | 2.3 | 2.8 | | | | | | | c | | | |
| 134 | 62 | 134 | 56 | 134 | | | | | | | $n_{2\,Eck}$ | | | |
| 124 | 62 | 119 | 56 | 114 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 613 | 473 | 920 | 662 | 1180 | 733 | $M_2$ | 9.04 | 2463 | 24.111 |
| | | | | | 3.9 | 4.5 | 2.6 | 3.3 | 2.1 | 3.0 | c | | | |
| | | | | | 59 | 124 | 59 | 124 | 56 | 124 | $n_{2\,Eck}$ | | | |
| | | | | | 59 | 92 | 59 | 92 | 56 | 92 | $n_{2\,th}$ | | | |
| 357 | 594 | 442 | 781 | 543 | | | | | | | $M_2$ | 8.63 | 1786 | 27.173 |
| 4.3 | 3.0 | 3.5 | 2.3 | 2.8 | | | | | | | c | | | |
| 119 | 55 | 119 | 50 | 119 | | | | | | | $n_{2\,Eck}$ | | | |
| 110 | 55 | 105 | 50 | 101 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 691 | 534 | 1037 | 747 | 1330 | 827 | $M_2$ | 8.63 | 2767 | 27.173 |
| | | | | | 3.9 | 4.5 | 2.6 | 3.3 | 2.1 | 3.0 | c | | | |
| | | | | | 52 | 110 | 52 | 110 | 50 | 110 | $n_{2\,Eck}$ | | | |
| | | | | | 52 | 81 | 52 | 81 | 50 | 81 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 5.43 | 1074 | 32.667 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

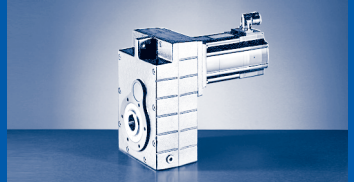
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2767$ Nm

| GFL09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 32.667 | 1678 | 5.43 | $M_2$ | | | | | | | | 277 | 225 | 495 |
| | | | c | | | | | | | | 5.8 | 6.0 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 46 | 110 | 46 |
| | | | $n_{2\,th}$ | | | | | | | | 46 | 110 | 46 |
| 36.815 | 1211 | 5.21 | $M_2$ | | | 348 | 277 | 260 | 475 | 387 | | | |
| | | | c | | | 3.4 | 3.8 | 3.9 | 2.5 | 2.5 | | | |
| | | | $n_{2\,Eck}$ | | | 41 | 82 | 96 | 53 | 110 | | | |
| | | | $n_{2\,th}$ | | | 41 | 81 | 96 | 53 | 89 | | | |
| 36.815 | 1891 | 5.21 | $M_2$ | | | | | | | | 313 | 254 | 558 |
| | | | c | | | | | | | | 5.8 | 6.0 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 41 | 98 | 41 |
| | | | $n_{2\,th}$ | | | | | | | | 41 | 98 | 41 |
| 39.667 | 1118 | 4.07 | $M_2$ | 202 | 158 | 377 | 301 | 282 | 513 | 418 | | | |
| | | | c | 5.3 | 5.5 | 2.9 | 3.3 | 3.3 | 2.2 | 2.2 | | | |
| | | | $n_{2\,Eck}$ | 49 | 102 | 38 | 76 | 89 | 49 | 102 | | | |
| | | | $n_{2\,th}$ | 49 | 102 | 38 | 76 | 89 | 49 | 95 | | | |
| 39.667 | 1743 | 4.07 | $M_2$ | | | | | | | | 340 | 276 | 604 |
| | | | c | | | | | | | | 4.9 | 5.1 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 38 | 91 | 38 |
| | | | $n_{2\,th}$ | | | | | | | | 38 | 91 | 38 |
| 44.704 | 1260 | 3.92 | $M_2$ | 228 | 178 | 425 | 339 | 318 | 579 | 471 | | | |
| | | | c | 5.3 | 5.5 | 2.9 | 3.3 | 3.3 | 2.2 | 2.2 | | | |
| | | | $n_{2\,Eck}$ | 44 | 91 | 34 | 67 | 79 | 44 | 91 | | | |
| | | | $n_{2\,th}$ | 44 | 91 | 34 | 67 | 79 | 44 | 84 | | | |
| 44.704 | 1965 | 3.92 | $M_2$ | | | | | | | | 383 | 311 | 681 |
| | | | c | | | | | | | | 4.9 | 5.1 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 34 | 81 | 34 |
| | | | $n_{2\,th}$ | | | | | | | | 34 | 80 | 34 |
| 51.333 | 1160 | 2.59 | $M_2$ | 265 | 207 | 491 | 392 | 367 | 667 | 544 | | | |
| | | | c | 4.2 | 4.4 | 2.3 | 2.6 | 2.7 | 1.7 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 38 | 79 | 29 | 58 | 69 | 38 | 79 | | | |
| | | | $n_{2\,th}$ | 38 | 79 | 29 | 58 | 69 | 38 | 78 | | | |
| 51.333 | 1808 | 2.59 | $M_2$ | | | | | | | | 444 | 362 | 786 |
| | | | c | | | | | | | | 4.0 | 4.1 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 29 | 70 | 29 |
| | | | $n_{2\,th}$ | | | | | | | | 29 | 70 | 29 |
| 57.852 | 1307 | 2.50 | $M_2$ | 298 | 233 | 554 | 442 | 414 | 752 | 613 | | | |
| | | | c | 4.2 | 4.4 | 2.3 | 2.6 | 2.7 | 1.7 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 34 | 70 | 26 | 52 | 61 | 34 | 70 | | | |
| | | | $n_{2\,th}$ | 34 | 70 | 26 | 52 | 61 | 34 | 69 | | | |
| 57.852 | 2038 | 2.50 | $M_2$ | | | | | | | | 501 | 407 | 886 |
| | | | c | | | | | | | | 4.0 | 4.1 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 26 | 62 | 26 |
| | | | $n_{2\,th}$ | | | | | | | | 26 | 62 | 26 |
| 62.300 | 1174 | 1.89 | $M_2$ | 324 | 253 | 599 | 478 | 448 | 812 | 662 | | | |
| | | | c | 3.5 | 3.7 | 1.9 | 2.2 | 2.2 | 1.4 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 31 | 65 | 24 | 48 | 57 | 31 | 65 | | | |
| | | | $n_{2\,th}$ | 31 | 65 | 24 | 48 | 57 | 31 | 65 | | | |
| 62.300 | 1829 | 1.89 | $M_2$ | | | | | | | | 543 | 442 | 958 |
| | | | c | | | | | | | | 3.3 | 3.4 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 24 | 58 | 24 |
| | | | $n_{2\,th}$ | | | | | | | | 24 | 58 | 24 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2767$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 433 | 719 | 536 | 943 | 657 | | | | | | | $M_2$ | 5.43 | 1678 | 32.667 |
| 3.3 | 2.3 | 2.7 | 1.8 | 2.2 | | | | | | | c | | | |
| 99 | 46 | 99 | 41 | 99 | | | | | | | $n_{2\,Eck}$ | | | |
| 99 | 46 | 99 | 41 | 98 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 5.21 | 1211 | 36.815 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 488 | 811 | 604 | 1063 | 741 | | | | | | | $M_2$ | 5.21 | 1891 | 36.815 |
| 3.3 | 2.3 | 2.7 | 1.8 | 2.2 | | | | | | | c | | | |
| 88 | 41 | 88 | 37 | 88 | | | | | | | $n_{2\,Eck}$ | | | |
| 88 | 41 | 88 | 37 | 87 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.07 | 1118 | 39.667 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 529 | 876 | 653 | 1148 | 801 | | | | | | | $M_2$ | 4.07 | 1743 | 39.667 |
| 2.9 | 2.0 | 2.3 | 1.5 | 1.9 | | | | | | | c | | | |
| 81 | 38 | 81 | 34 | 81 | | | | | | | $n_{2\,Eck}$ | | | |
| 81 | 38 | 81 | 34 | 81 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 3.92 | 1260 | 44.704 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 596 | 988 | 736 | 1294 | 902 | | | | | | | $M_2$ | 3.92 | 1965 | 44.704 |
| 2.9 | 2.0 | 2.3 | 1.5 | 1.9 | | | | | | | c | | | |
| 72 | 34 | 72 | 30 | 72 | | | | | | | $n_{2\,Eck}$ | | | |
| 72 | 34 | 72 | 30 | 72 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.59 | 1160 | 51.333 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 688 | 1139 | 849 | 1491 | 1040 | | | | | | | $M_2$ | 2.59 | 1808 | 51.333 |
| 2.3 | 1.6 | 1.9 | 1.2 | 1.5 | | | | | | | c | | | |
| 63 | 29 | 63 | 26 | 63 | | | | | | | $n_{2\,Eck}$ | | | |
| 63 | 29 | 63 | 26 | 63 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.50 | 1307 | 57.852 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 775 | 1283 | 957 | 1680 | 1172 | | | | | | | $M_2$ | 2.50 | 2038 | 57.852 |
| 2.3 | 1.6 | 1.9 | 1.2 | 1.5 | | | | | | | c | | | |
| 56 | 26 | 56 | 23 | 56 | | | | | | | $n_{2\,Eck}$ | | | |
| 56 | 26 | 56 | 23 | 56 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.89 | 1174 | 62.300 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 838 | 1386 | 1034 | 1813 | 1266 | | | | | | | $M_2$ | 1.89 | 1829 | 62.300 |
| 1.9 | 1.3 | 1.6 | 1.0 | 1.3 | | | | | | | c | | | |
| 52 | 24 | 52 | 22 | 52 | | | | | | | $n_{2\,Eck}$ | | | |
| 52 | 24 | 52 | 22 | 52 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

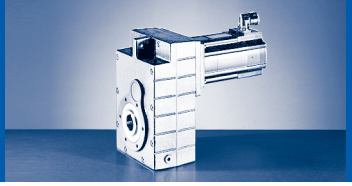
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 2767$ Nm

| GFL09-2S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 70.211 | 1324 | 1.83 | $M_2$ | 365 | 284 | 675 | 537 | 503 | 915 | 745 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 28 | 58 | 21 | 43 | 50 | 28 | 58 | | | |
| | | | $n_{2\,th}$ | 28 | 58 | 21 | 43 | 50 | 28 | 58 | | | |
| 70.211 | 2061 | 1.83 | $M_2$ | | | | | | | | 612 | 496 | 1080 |
| | | | c | | | | | | | | 3.3 | 3.8 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 21 | 51 | 21 |
| | | | $n_{2\,th}$ | | | | | | | | 21 | 51 | 21 |
| 78.750 | 1190 | 1.25 | $M_2$ | 412 | 321 | 760 | 605 | 567 | 1030 | 838 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 25 | 51 | 19 | 38 | 45 | 25 | 51 | | | |
| | | | $n_{2\,th}$ | 25 | 51 | 19 | 38 | 45 | 25 | 51 | | | |
| 88.750 | 1341 | 1.21 | $M_2$ | 465 | 362 | 856 | 682 | 639 | 1161 | 944 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 22 | 46 | 17 | 34 | 40 | 22 | 46 | | | |
| | | | $n_{2\,th}$ | 22 | 46 | 17 | 34 | 40 | 22 | 46 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 2767$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL09-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.83 | 1324 | 70.211 |
| 943<br>2.1<br>46<br>46 | 1562<br>1.3<br>21<br>21 | 1163<br>1.7<br>46<br>46 | 2043<br>1.0<br>19<br>19 | 1425<br>1.4<br>46<br>46 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.83 | 2061 | 70.211 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 1190 | 78.750 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.21 | 1341 | 88.750 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

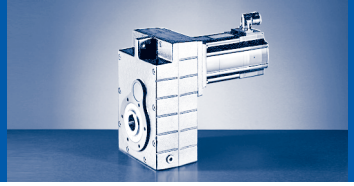
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3170$ Nm

| GFL09-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 |
| 63.326 | 1510 | 2.34 | $M_2$ | | | | | | 219 | 262 | 321 | 250 | 596 |
| | | | c | | | | | | 5.4 | 4.5 | 4.5 | 4.7 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | 64 | 64 | 31 | 64 | 24 |
| | | | $n_{2\,th}$ | | | | | | 64 | 64 | 31 | 64 | 24 |
| 73.173 | 1517 | 2.47 | $M_2$ | | | | | | 254 | 304 | 373 | 289 | 691 |
| | | | c | | | | | | 5.2 | 4.4 | 4.0 | 4.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | | 55 | 55 | 27 | 55 | 21 |
| | | | $n_{2\,th}$ | | | | | | 55 | 55 | 27 | 55 | 21 |
| 82.465 | 1710 | 2.43 | $M_2$ | | | | | | 286 | 342 | 420 | 326 | 778 |
| | | | c | | | | | | 5.2 | 4.4 | 4.0 | 4.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | | 49 | 49 | 24 | 49 | 18 |
| | | | $n_{2\,th}$ | | | | | | 49 | 49 | 24 | 49 | 18 |
| 93.333 | 1692 | 1.68 | $M_2$ | | | | | 263 | 326 | 390 | 478 | 372 | 884 |
| | | | c | | | | | 5.7 | 4.5 | 3.8 | 3.5 | 4.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | 40 | 43 | 43 | 21 | 43 | 16 |
| | | | $n_{2\,th}$ | | | | | 40 | 43 | 43 | 21 | 43 | 16 |
| 105.185 | 1907 | 1.65 | $M_2$ | | | | | 296 | 368 | 439 | 539 | 419 | 996 |
| | | | c | | | | | 5.7 | 4.5 | 3.8 | 3.5 | 4.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | 36 | 39 | 39 | 19 | 39 | 14 |
| | | | $n_{2\,th}$ | | | | | 36 | 39 | 39 | 19 | 39 | 14 |
| 114.333 | 1847 | 1.23 | $M_2$ | | | | | 324 | 402 | 479 | 588 | 457 | 1085 |
| | | | c | | | | | 5.1 | 4.0 | 3.4 | 3.1 | 3.6 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | | 33 | 35 | 35 | 17 | 35 | 13 |
| | | | $n_{2\,th}$ | | | | | 33 | 35 | 35 | 17 | 35 | 13 |
| 128.852 | 2082 | 1.21 | $M_2$ | | | | | 366 | 453 | 540 | 663 | 515 | 1223 |
| | | | c | | | | | 5.1 | 4.0 | 3.4 | 3.1 | 3.6 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | | 29 | 31 | 31 | 15 | 31 | 12 |
| | | | $n_{2\,th}$ | | | | | 29 | 31 | 31 | 15 | 31 | 12 |
| 148.815 | 2053 | 0.77 | $M_2$ | | | | 311 | 426 | 527 | 627 | 769 | 598 | 1416 |
| | | | c | | | | 5.7 | 4.3 | 3.4 | 2.9 | 2.6 | 3.0 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 27 | 25 | 27 | 27 | 13 | 27 | 10 |
| | | | $n_{2\,th}$ | | | | 27 | 25 | 27 | 27 | 13 | 27 | 10 |
| 167.712 | 2314 | 0.76 | $M_2$ | | | | 351 | 480 | 594 | 707 | 867 | 674 | 1595 |
| | | | c | | | | 5.7 | 4.3 | 3.4 | 2.9 | 2.6 | 3.0 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 24 | 22 | 24 | 24 | 12 | 24 | 9 |
| | | | $n_{2\,th}$ | | | | 24 | 22 | 24 | 24 | 12 | 24 | 9 |
| 185.111 | 1724 | 0.55 | $M_2$ | | | 252 | | | | | | | |
| | | | c | | | 5.9 | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 22 | | | | | | | |
| | | | $n_{2\,th}$ | | | 22 | | | | | | | |
| 185.111 | 2232 | 0.55 | $M_2$ | | | | 390 | 532 | 658 | 783 | 960 | 748 | 1764 |
| | | | c | | | | 5.0 | 3.8 | 3.0 | 2.5 | 2.3 | 2.7 | 1.3 |
| | | | $n_{2\,Eck}$ | | | | 22 | 20 | 22 | 22 | 11 | 22 | 8 |
| | | | $n_{2\,th}$ | | | | 22 | 20 | 22 | 22 | 11 | 22 | 8 |
| 208.617 | 1943 | 0.54 | $M_2$ | | | 284 | | | | | | | |
| | | | c | | | 5.9 | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 19 | | | | | | | |
| | | | $n_{2\,th}$ | | | 19 | | | | | | | |
| 208.617 | 2515 | 0.54 | $M_2$ | | | | 440 | 600 | 742 | 883 | 1082 | 842 | 1988 |
| | | | c | | | | 5.0 | 3.8 | 3.0 | 2.5 | 2.3 | 2.7 | 1.3 |
| | | | $n_{2\,Eck}$ | | | | 19 | 18 | 19 | 19 | 9 | 19 | 7 |
| | | | $n_{2\,th}$ | | | | 19 | 18 | 19 | 19 | 9 | 19 | 7 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3170$ Nm

| 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC32 | GFL09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 3225 | $n_1$ | | | |
| 10.5 | | 11.8 | | | | | | | | | $I_{M\,230}$ | | | |
| | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 15.6 | $I_{M\,400}$ | | | |
| 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 7.10 | $P_N$ | | | |
| 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.82 | $J_M$ | | | |
| 475 | 445 | 810 | 660 | 547 | 445 | 963 | 842 | 1391 | 1038 | 1270 | $M_2$ | | | |
| 2.8 | 2.8 | 1.9 | 1.9 | 2.7 | 2.8 | 1.6 | 1.6 | 1.1 | 1.3 | 1.1 | c | | | |
| 47 | 56 | 31 | 64 | 24 | 57 | 24 | 51 | 24 | 51 | 51 | $n_{2\,Eck}$ | 2.34 | 1510 | 63.326 |
| 47 | 56 | 31 | 64 | 24 | 57 | 24 | 51 | 24 | 51 | 51 | $n_{2\,th}$ | | | |
| 549 | 515 | 938 | 763 | 634 | 515 | 1115 | 974 | | 1200 | 1468 | $M_2$ | | | |
| 2.7 | 2.7 | 1.6 | 1.8 | 2.4 | 2.7 | 1.4 | 1.5 | | 1.2 | 1.0 | c | | | |
| 41 | 48 | 27 | 55 | 21 | 49 | 21 | 44 | | 44 | 44 | $n_{2\,Eck}$ | 2.47 | 1517 | 73.173 |
| 41 | 48 | 27 | 49 | 21 | 49 | 21 | 44 | | 41 | 37 | $n_{2\,th}$ | | | |
| 619 | 580 | 1057 | 860 | 715 | 580 | 1256 | 1097 | | 1352 | 1655 | $M_2$ | | | |
| 2.7 | 2.7 | 1.6 | 1.8 | 2.4 | 2.7 | 1.4 | 1.5 | | 1.2 | 1.0 | c | | | |
| 36 | 43 | 24 | 49 | 18 | 44 | 18 | 39 | | 39 | 39 | $n_{2\,Eck}$ | 2.43 | 1710 | 82.465 |
| 36 | 43 | 24 | 44 | 18 | 44 | 18 | 39 | | 36 | 33 | $n_{2\,th}$ | | | |
| 703 | 659 | 1199 | 975 | 811 | 659 | 1424 | 1245 | | 1533 | | $M_2$ | | | |
| 2.4 | 2.4 | 1.4 | 1.6 | 2.1 | 2.4 | 1.2 | 1.3 | | 1.1 | | c | | | |
| 32 | 38 | 21 | 43 | 16 | 39 | 16 | 35 | | 35 | | $n_{2\,Eck}$ | 1.68 | 1692 | 93.333 |
| 32 | 38 | 21 | 41 | 16 | 38 | 16 | 35 | | 35 | | $n_{2\,th}$ | | | |
| 793 | 743 | 1351 | 1099 | 915 | 743 | 1605 | 1403 | | 1728 | | $M_2$ | | | |
| 2.4 | 2.4 | 1.4 | 1.6 | 2.1 | 2.4 | 1.2 | 1.3 | | 1.1 | | c | | | |
| 29 | 34 | 19 | 39 | 14 | 34 | 14 | 31 | | 31 | | $n_{2\,Eck}$ | 1.65 | 1907 | 105.185 |
| 29 | 34 | 19 | 36 | 14 | 34 | 14 | 31 | | 31 | | $n_{2\,th}$ | | | |
| 864 | 810 | 1471 | 1197 | 996 | 810 | 1747 | 1527 | | | | $M_2$ | | | |
| 2.1 | 2.1 | 1.3 | 1.4 | 1.8 | 2.1 | 1.1 | 1.2 | | | | c | | | |
| 26 | 31 | 17 | 35 | 13 | 32 | 13 | 28 | | | | $n_{2\,Eck}$ | 1.23 | 1847 | 114.333 |
| 26 | 31 | 17 | 35 | 13 | 31 | 13 | 28 | | | | $n_{2\,th}$ | | | |
| 974 | 913 | 1658 | 1349 | 1123 | 913 | 1969 | 1721 | | | | $M_2$ | | | |
| 2.1 | 2.1 | 1.3 | 1.4 | 1.8 | 2.1 | 1.1 | 1.2 | | | | c | | | |
| 23 | 27 | 15 | 31 | 12 | 28 | 12 | 25 | | | | $n_{2\,Eck}$ | 1.21 | 2082 | 128.852 |
| 23 | 27 | 15 | 31 | 12 | 28 | 12 | 25 | | | | $n_{2\,th}$ | | | |
| 1128 | 1057 | 1919 | 1561 | | | | | | | | $M_2$ | | | |
| 1.8 | 1.8 | 1.1 | 1.2 | | | | | | | | c | | | |
| 20 | 24 | 13 | 27 | | | | | | | | $n_{2\,Eck}$ | 0.77 | 2053 | 148.815 |
| 20 | 24 | 13 | 27 | | | | | | | | $n_{2\,th}$ | | | |
| 1271 | 1192 | 2162 | 1760 | | | | | | | | $M_2$ | | | |
| 1.8 | 1.8 | 1.1 | 1.2 | | | | | | | | c | | | |
| 18 | 21 | 12 | 24 | | | | | | | | $n_{2\,Eck}$ | 0.76 | 2314 | 167.712 |
| 18 | 21 | 12 | 24 | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 0.55 | 1724 | 185.111 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1407 | 1319 | | 1945 | | | | | | | | $M_2$ | | | |
| 1.6 | 1.6 | | 1.0 | | | | | | | | c | | | |
| 16 | 19 | | 22 | | | | | | | | $n_{2\,Eck}$ | 0.55 | 2232 | 185.111 |
| 16 | 19 | | 22 | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 0.54 | 1943 | 208.617 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1585 | 1486 | | 2192 | | | | | | | | $M_2$ | | | |
| 1.6 | 1.6 | | 1.0 | | | | | | | | c | | | |
| 14 | 17 | | 19 | | | | | | | | $n_{2\,Eck}$ | 0.54 | 2515 | 208.617 |
| 14 | 17 | | 19 | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

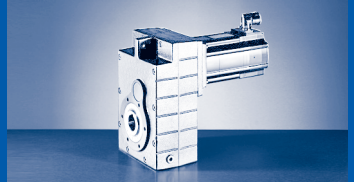
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3170$ Nm

| GFL09-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 |
| 224.778 | 2093 | 0.51 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 306<br>5.9<br>18<br>18 | | | | | | | |
| 224.778 | 2407 | 0.51 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 476<br>4.4<br>18<br>18 | 650<br>3.4<br>17<br>17 | 802<br>2.7<br>18<br>18 | 954<br>2.3<br>18<br>18 | 1169<br>2.0<br>9<br>9 | 911<br>2.4<br>18<br>18 | 2145<br>1.1<br>7<br>7 |
| 253.321 | 2359 | 0.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 345<br>5.9<br>16<br>16 | | | | | | | |
| 253.321 | 2712 | 0.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 537<br>4.4<br>16<br>16 | 732<br>3.4<br>15<br>15 | 904<br>2.7<br>16<br>16 | 1075<br>2.3<br>16<br>16 | 1317<br>2.0<br>8<br>8 | 1026<br>2.4<br>16<br>16 | 2418<br>1.1<br>6<br>6 |
| 290.889 | 2172 | 0.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 317<br>5.9<br>14<br>14 | 401<br>4.7<br>14<br>14 | | | | | | | |
| 290.889 | 2640 | 0.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 621<br>3.7<br>14<br>14 | 845<br>2.8<br>13<br>13 | 1042<br>2.3<br>14<br>14 | 1239<br>1.9<br>14<br>14 | | | |
| 327.827 | 2447 | 0.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 357<br>5.9<br>12<br>12 | 452<br>4.7<br>12<br>12 | | | | | | | |
| 327.827 | 2976 | 0.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 700<br>3.7<br>12<br>12 | 952<br>2.8<br>11<br>11 | 1175<br>2.3<br>12<br>12 | 1396<br>1.9<br>12<br>12 | | | |
| 353.033 | 2197 | 0.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 388<br>4.9<br>12<br>11 | 491<br>3.9<br>12<br>11 | | | | | | | |
| 353.033 | 2813 | 0.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 757<br>3.3<br>12<br>11 | 1030<br>2.5<br>11<br>11 | 1269<br>2.0<br>12<br>11 | 1507<br>1.7<br>12<br>11 | | | |
| 397.863 | 2476 | 0.22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 438<br>4.9<br>10<br>10 | 553<br>3.9<br>10<br>10 | | | | | | | |
| 397.863 | 3170 | 0.22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 854<br>3.3<br>10<br>10 | 1160<br>2.5<br>9<br>9 | 1430<br>2.0<br>10<br>10 | 1699<br>1.7<br>10<br>10 | | | |
| 424.247 | 2724 | 0.29 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 466<br>5.1<br>10<br>10 | 589<br>4.1<br>10<br>10 | 916<br>2.6<br>10<br>10 | 1244<br>2.0<br>9<br>9 | 1531<br>1.6<br>10<br>10 | 1818<br>1.4<br>10<br>10 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3170$ Nm

| 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC32 | GFL09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 3225 | $n_1$ | | | |
| 10.5 | | 11.8 | | | | | | | | | $I_{M\,230}$ | | | |
| | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 15.6 | $I_{M\,400}$ | | | |
| 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 7.10 | $P_N$ | | | |
| 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.51 | 2093 | 224.778 |
| 1711<br>1.4<br>13<br>13 | 1604<br>1.4<br>16<br>16 | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.51 | 2407 | 224.778 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.50 | 2359 | 253.321 |
| 1929<br>1.4<br>12<br>12 | 1808<br>1.4<br>14<br>14 | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.50 | 2712 | 253.321 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.31 | 2172 | 290.889 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.31 | 2640 | 290.889 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.31 | 2447 | 327.827 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.31 | 2976 | 327.827 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.23 | 2197 | 353.033 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.23 | 2813 | 353.033 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.22 | 2476 | 397.863 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.22 | 3170 | 397.863 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.29 | 2724 | 424.247 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

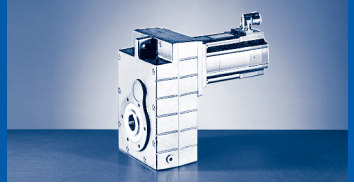
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3170$ Nm

| GFL09-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 |
| 514.881 | 2724 | 0.21 | $M_2$ | | 571 | 720 | 1118 | 1515 | 1864 | 2212 | | | |
| | | | c | | 4.2 | 3.3 | 2.2 | 1.7 | 1.3 | 1.1 | | | |
| | | | $n_{2\,Eck}$ | | 8 | 8 | 8 | 7 | 8 | 8 | | | |
| | | | $n_{2\,th}$ | | 8 | 8 | 8 | 7 | 8 | 8 | | | |
| 554.470 | 2113 | 0.20 | $M_2$ | | 623 | 783 | 1211 | 1639 | | | | | |
| | | | c | | 3.0 | 2.4 | 1.6 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | | 7 | 7 | 7 | 7 | | | | | |
| | | | $n_{2\,th}$ | | 7 | 7 | 7 | 7 | | | | | |
| 624.879 | 2273 | 0.20 | $M_2$ | 341 | 703 | 884 | 1366 | 1849 | | | | | |
| | | | c | 5.7 | 2.9 | 2.3 | 1.5 | 1.1 | | | | | |
| | | | $n_{2\,Eck}$ | 7 | 7 | 7 | 7 | 6 | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | 6 | 6 | | | | | |
| 700.875 | 2113 | 0.13 | $M_2$ | 386 | 792 | 995 | | | | | | | |
| | | | c | 4.8 | 2.4 | 1.9 | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | 6 | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | | | | | | | |
| 789.875 | 2273 | 0.13 | $M_2$ | 436 | 894 | 1123 | | | | | | | |
| | | | c | 4.5 | 2.3 | 1.8 | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | | | | | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3170$ Nm

| 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC32 | GFL09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 3225 | $n_1$ | | | |
| 10.5 | | 11.8 | | | | | | | | | $I_{M\,230}$ | | | |
| | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 15.6 | $I_{M\,400}$ | | | |
| 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 7.10 | $P_N$ | | | |
| 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.21 | 2724 | 514.881 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.20 | 2113 | 554.470 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.20 | 2273 | 624.879 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.13 | 2113 | 700.875 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.13 | 2273 | 789.875 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

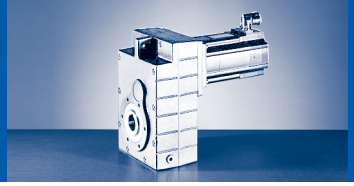
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3833$ Nm

| GFL11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 6.864 | 1502 | 124.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 7.466 | 1634 | 116.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.010 | 1663 | 79.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.799 | 1808 | 74.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 10.720 | 1872 | 65.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 12.480 | 2732 | 81.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 14.538 | 2683 | 58.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 15.904 | 2778 | 51.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 17.920 | 3130 | 48.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 20.286 | 1921 | 36.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 263<br>5.4<br>159<br>115 | 438<br>4.2<br>74<br>74 | 327<br>4.4<br>159<br>111 | 577<br>3.3<br>67<br>67 |
| 20.286 | 2984 | 36.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 22.857 | 2165 | 34.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 296<br>5.4<br>141<br>102 | 493<br>4.2<br>66<br>66 | 368<br>4.4<br>141<br>98 | 650<br>3.3<br>59<br>59 |
| 22.857 | 3362 | 34.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3833$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | 254 | | 328 | 203 | $M_2$ | 124.00 | 1502 | 6.864 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 208 | | 197 | 437 | $n_{2\,Eck}$ | | | |
| | | | 208 | | 197 | 253 | $n_{2\,th}$ | | | |
| | | | 276 | | 356 | 221 | $M_2$ | 116.00 | 1634 | 7.466 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 191 | | 181 | 402 | $n_{2\,Eck}$ | | | |
| | | | 191 | | 181 | 233 | $n_{2\,th}$ | | | |
| | | | 336 | 243 | 433 | 269 | $M_2$ | 79.60 | 1663 | 9.010 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 158 | 333 | 150 | 333 | $n_{2\,Eck}$ | | | |
| | | | 158 | 221 | 150 | 216 | $n_{2\,th}$ | | | |
| | | | 366 | 264 | 471 | 293 | $M_2$ | 74.80 | 1808 | 9.799 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 145 | 306 | 138 | 306 | $n_{2\,Eck}$ | | | |
| | | | 145 | 203 | 138 | 199 | $n_{2\,th}$ | | | |
| | | | 401 | 289 | 517 | 321 | $M_2$ | 65.00 | 1872 | 10.720 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 133 | 280 | 126 | 280 | $n_{2\,Eck}$ | | | |
| | | | 133 | 189 | 126 | 185 | $n_{2\,th}$ | | | |
| | | | 461 | | 596 | 369 | $M_2$ | 81.50 | 2732 | 12.480 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 114 | | 108 | 240 | $n_{2\,Eck}$ | | | |
| | | | 114 | | 108 | 139 | $n_{2\,th}$ | | | |
| | | | 542 | 391 | 699 | 434 | $M_2$ | 58.40 | 2683 | 14.538 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 98 | 206 | 93 | 206 | $n_{2\,Eck}$ | | | |
| | | | 98 | 137 | 93 | 134 | $n_{2\,th}$ | | | |
| | | | 595 | 429 | 766 | 476 | $M_2$ | 51.30 | 2778 | 15.904 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 90 | 189 | 85 | 189 | $n_{2\,Eck}$ | | | |
| | | | 90 | 127 | 85 | 125 | $n_{2\,th}$ | | | |
| | | | 670 | 484 | 864 | 536 | $M_2$ | 48.30 | 3130 | 17.920 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 80 | 167 | 75 | 167 | $n_{2\,Eck}$ | | | |
| | | | 80 | 113 | 75 | 111 | $n_{2\,th}$ | | | |
| 402 | | | | | | | $M_2$ | 36.10 | 1921 | 20.286 |
| 3.6 | | | | | | | c | | | |
| 159 | | | | | | | $n_{2\,Eck}$ | | | |
| 106 | | | | | | | $n_{2\,th}$ | | | |
| | 506 | 393 | 765 | 552 | 983 | 612 | $M_2$ | 36.10 | 2984 | 20.286 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 70 | 148 | 70 | 148 | 67 | 148 | $n_{2\,Eck}$ | | | |
| | 70 | 109 | 70 | 109 | 67 | 107 | $n_{2\,th}$ | | | |
| 453 | | | | | | | $M_2$ | 34.30 | 2165 | 22.857 |
| 3.6 | | | | | | | c | | | |
| 141 | | | | | | | $n_{2\,Eck}$ | | | |
| 94 | | | | | | | $n_{2\,th}$ | | | |
| | 570 | 443 | 862 | 622 | 1108 | 689 | $M_2$ | 34.30 | 3362 | 22.857 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 62 | 131 | 62 | 131 | 59 | 131 | $n_{2\,Eck}$ | | | |
| | 62 | 97 | 62 | 97 | 59 | 95 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

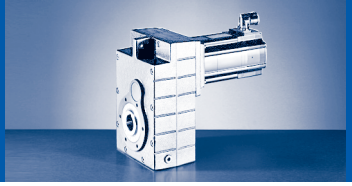
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3833$ Nm

| GFL11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 24.850 | 3142 | 26.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 28.000 | 3540 | 25.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 32.739 | 2135 | 17.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 491<br>4.2<br>46<br>46 | 430<br>4.2<br>99<br>91 | 716<br>2.9<br>46<br>46 | 533<br>3.4<br>99<br>88 | 941<br>2.2<br>41<br>41 |
| 32.739 | 3319 | 17.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 36.889 | 2406 | 16.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 554<br>4.2<br>41<br>41 | 484<br>4.2<br>87<br>81 | 807<br>2.9<br>41<br>41 | 600<br>3.4<br>87<br>78 | 1060<br>2.2<br>37<br>37 |
| 36.889 | 3740 | 16.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 40.233 | 2189 | 12.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 608<br>3.5<br>37<br>37 | 532<br>3.5<br>80<br>80 | 885<br>2.4<br>37<br>37 | 658<br>2.9<br>80<br>80 | 1161<br>1.9<br>34<br>34 |
| 40.233 | 3402 | 12.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 45.333 | 2467 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 686<br>3.5<br>33<br>33 | 600<br>3.5<br>71<br>71 | 997<br>2.4<br>33<br>33 | 742<br>2.9<br>71<br>71 | 1308<br>1.9<br>30<br>30 |
| 45.333 | 3833 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 52.067 | 2270 | 8.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 446<br>4.9<br>29<br>29 | 363<br>5.1<br>69<br>69 | 793<br>2.8<br>29<br>29 | 694<br>2.8<br>62<br>62 | 1150<br>2.0<br>29<br>29 | 857<br>2.3<br>62<br>62 | 1508<br>1.5<br>26<br>26 |
| 58.667 | 2557 | 7.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 503<br>4.9<br>26<br>26 | 409<br>5.1<br>61<br>61 | 894<br>2.8<br>26<br>26 | 782<br>2.8<br>55<br>55 | 1296<br>2.0<br>26<br>26 | 966<br>2.3<br>55<br>55 | 1699<br>1.5<br>23<br>23 |
| 63.190 | 2297 | 5.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 546<br>4.1<br>24<br>24 | 444<br>4.2<br>57<br>57 | 967<br>2.3<br>24<br>24 | 846<br>2.4<br>51<br>51 | 1401<br>1.6<br>24<br>24 | 1045<br>1.9<br>51<br>51 | 1835<br>1.3<br>21<br>21 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3833$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | 625<br>4.8<br>57<br>121<br>57 | 482<br>5.6<br>121<br>89 | 942<br>3.3<br>57<br>57 | 677<br>4.1<br>121<br>89 | 1210<br>2.6<br>54<br>54 | 750<br>3.7<br>121<br>89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 26.90 | 3142 | 24.850 |
| | 705<br>4.8<br>51<br>51 | 543<br>5.6<br>107<br>79 | 1061<br>3.3<br>51<br>51 | 763<br>4.1<br>107<br>79 | 1363<br>2.6<br>48<br>48 | 845<br>3.7<br>107<br>79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.70 | 3540 | 28.000 |
| 655<br>2.8<br>99<br>84 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.10 | 2135 | 32.739 |
| | 832<br>3.9<br>44<br>44 | 643<br>4.5<br>92<br>68 | 1249<br>2.6<br>44<br>44 | 900<br>3.3<br>92<br>68 | 1602<br>2.1<br>41<br>41 | 996<br>3.0<br>92<br>68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.10 | 3319 | 32.739 |
| 738<br>2.8<br>87<br>75 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.50 | 2406 | 36.889 |
| | 938<br>3.9<br>39<br>39 | 725<br>4.5<br>81<br>60 | 1408<br>2.6<br>39<br>39 | 1014<br>3.3<br>81<br>60 | 1806<br>2.1<br>37<br>37 | 1122<br>3.0<br>81<br>60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.50 | 3740 | 36.889 |
| 808<br>2.4<br>80<br>77 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.60 | 2189 | 40.233 |
| | 1030<br>3.2<br>35<br>35 | 797<br>3.7<br>75<br>55 | 1542<br>2.2<br>35<br>35 | 1112<br>2.7<br>75<br>55 | 1976<br>1.7<br>34<br>34 | 1230<br>2.5<br>75<br>55 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.60 | 3402 | 40.233 |
| 911<br>2.4<br>71<br>68 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 2467 | 45.333 |
| | 1160<br>3.2<br>31<br>31 | 898<br>3.7<br>66<br>49 | 1738<br>2.2<br>31<br>31 | 1253<br>2.7<br>66<br>49 | 2227<br>1.7<br>30<br>30 | 1386<br>2.5<br>66<br>49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 3833 | 45.333 |
| 1051<br>1.9<br>62<br>62 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.08 | 2270 | 52.067 |
| 1184<br>1.9<br>55<br>55 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.81 | 2557 | 58.667 |
| 1280<br>1.6<br>51<br>51 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.90 | 2297 | 63.190 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

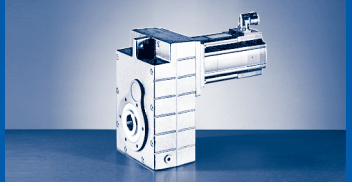
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3833$ Nm

| GFL11-2S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 71.200 | 2588 | 5.72 | $M_2$ | 615 | 498 | 1090 | 951 | 1579 | 1174 | 2067 |
| | | | c | 4.1 | 4.7 | 2.3 | 2.6 | 1.6 | 2.1 | 1.3 |
| | | | $n_{2\,Eck}$ | 21 | 51 | 21 | 45 | 21 | 45 | 19 |
| | | | $n_{2\,th}$ | 21 | 50 | 21 | 45 | 21 | 45 | 19 |
| 79.875 | 2325 | 3.87 | $M_2$ | 696 | 565 | 1229 | 1073 | 1777 | 1323 | 2325 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 19 | 45 | 19 | 40 | 19 | 40 | 17 |
| | | | $n_{2\,th}$ | 19 | 45 | 19 | 40 | 19 | 40 | 17 |
| 90.000 | 2620 | 3.76 | $M_2$ | 785 | 636 | 1385 | 1209 | 2002 | 1491 | 2620 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 17 | 40 | 17 | 36 | 17 | 36 | 15 |
| | | | $n_{2\,th}$ | 17 | 40 | 17 | 36 | 17 | 36 | 15 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3833$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL11-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 1440 | | | | | | | $M_2$ | 5.72 | 2588 | 71.200 |
| 1.7 | | | | | | | c | | | |
| 45 | | | | | | | $n_{2\,Eck}$ | | | |
| 45 | | | | | | | $n_{2\,th}$ | | | |
| 1621 | | | | | | | $M_2$ | 3.87 | 2325 | 79.875 |
| 1.4 | | | | | | | c | | | |
| 40 | | | | | | | $n_{2\,Eck}$ | | | |
| 40 | | | | | | | $n_{2\,th}$ | | | |
| 1826 | | | | | | | $M_2$ | 3.76 | 2620 | 90.000 |
| 1.4 | | | | | | | c | | | |
| 36 | | | | | | | $n_{2\,Eck}$ | | | |
| 36 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

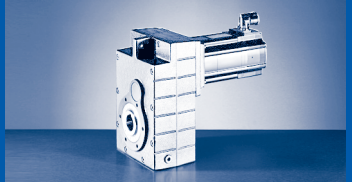
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5950$ Nm

| GFL11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 65.306 | 2503 | 6.97 | $M_2$ | | | | | | | 604 | 478 | 448 | 825 | 670 | |
| | | | c | | | | | | | 4.0 | 5.0 | 5.1 | 3.0 | 3.3 | |
| | | | $n_{2\,Eck}$ | | | | | | | 23 | 46 | 54 | 30 | 62 | |
| | | | $n_{2\,th}$ | | | | | | | 23 | 46 | 54 | 30 | 62 | |
| 65.306 | 2891 | 6.97 | $M_2$ | | | | | | | | | | | | 550 |
| | | | c | | | | | | | | | | | | 5.0 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 23 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 23 |
| 73.335 | 2875 | 7.84 | $M_2$ | | | | | | | 678 | 536 | 503 | 926 | 752 | 621 |
| | | | c | | | | | | | 4.1 | 5.1 | 5.2 | 3.0 | 3.4 | 4.5 |
| | | | $n_{2\,Eck}$ | | | | | | | 21 | 41 | 48 | 27 | 55 | 21 |
| | | | $n_{2\,th}$ | | | | | | | 20 | 41 | 48 | 27 | 48 | 20 |
| 82.631 | 3240 | 7.71 | $M_2$ | | | | | | | 764 | 604 | 566 | 1043 | 847 | 700 |
| | | | c | | | | | | | 4.1 | 5.1 | 5.2 | 3.0 | 3.4 | 4.5 |
| | | | $n_{2\,Eck}$ | | | | | | | 18 | 36 | 43 | 24 | 49 | 18 |
| | | | $n_{2\,th}$ | | | | | | | 18 | 36 | 43 | 24 | 43 | 18 |
| 93.540 | 3206 | 5.05 | $M_2$ | | | | | | | 870 | 689 | 646 | 1186 | 963 | 797 |
| | | | c | | | | | | | 3.6 | 4.5 | 4.5 | 2.7 | 3.0 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 16 | 32 | 38 | 21 | 43 | 16 |
| | | | $n_{2\,th}$ | | | | | | | 16 | 32 | 38 | 21 | 43 | 16 |
| 105.397 | 3613 | 4.97 | $M_2$ | | | | | | | 980 | 776 | 728 | 1336 | 1085 | 899 |
| | | | c | | | | | | | 3.6 | 4.5 | 4.5 | 2.7 | 3.0 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 14 | 29 | 34 | 19 | 38 | 14 |
| | | | $n_{2\,th}$ | | | | | | | 14 | 28 | 33 | 19 | 38 | 14 |
| 114.586 | 3501 | 3.71 | $M_2$ | | | | | 572 | | 1070 | 849 | 795 | 1457 | 1184 | 981 |
| | | | c | | | | | 5.8 | | 3.2 | 4.0 | 4.0 | 2.4 | 2.6 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | 17 | | 13 | 26 | 31 | 17 | 35 | 13 |
| | | | $n_{2\,th}$ | | | | | 17 | | 13 | 26 | 31 | 17 | 35 | 13 |
| 129.111 | 3945 | 3.66 | $M_2$ | | | | | 644 | | 1206 | 956 | 896 | 1642 | 1334 | 1106 |
| | | | c | | | | | 5.8 | | 3.2 | 4.0 | 4.0 | 2.4 | 2.6 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | 15 | | 12 | 23 | 27 | 15 | 31 | 12 |
| | | | $n_{2\,th}$ | | | | | 15 | | 12 | 23 | 27 | 15 | 31 | 12 |
| 149.144 | 3063 | 2.30 | $M_2$ | | | 518 | 619 | | | | | | | | |
| | | | c | | | 5.1 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 27 | 27 | | | | | | | | |
| | | | $n_{2\,th}$ | | | 27 | 27 | | | | | | | | |
| 149.144 | 3894 | 2.30 | $M_2$ | | | | | 751 | 582 | 1399 | 1111 | 1042 | 1904 | 1547 | 1284 |
| | | | c | | | | | 5.0 | 5.8 | 2.7 | 3.4 | 3.5 | 2.0 | 2.3 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | 13 | 27 | 10 | 20 | 24 | 13 | 27 | 10 |
| | | | $n_{2\,th}$ | | | | | 13 | 27 | 10 | 20 | 24 | 13 | 27 | 10 |
| 168.049 | 3451 | 2.27 | $M_2$ | | | 584 | 698 | | | | | | | | |
| | | | c | | | 5.1 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 24 | 24 | | | | | | | | |
| | | | $n_{2\,th}$ | | | 24 | 24 | | | | | | | | |
| 168.049 | 4387 | 2.27 | $M_2$ | | | | | 847 | 656 | 1577 | 1252 | 1174 | 2145 | 1744 | 1447 |
| | | | c | | | | | 5.0 | 5.8 | 2.7 | 3.4 | 3.5 | 2.0 | 2.3 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | 12 | 24 | 9 | 18 | 21 | 12 | 24 | 9 |
| | | | $n_{2\,th}$ | | | | | 12 | 24 | 9 | 18 | 21 | 12 | 24 | 9 |
| 182.792 | 3211 | 1.66 | $M_2$ | | 516 | 640 | 764 | | | | | | | | |
| | | | c | | 5.5 | 4.4 | 3.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 21 | 22 | 22 | | | | | | | | |
| | | | $n_{2\,th}$ | | 21 | 22 | 22 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5950$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC30 | GFL11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.97 | 2503 | 65.306 |
| 445<br>5.8<br>55<br>55 | 979<br>2.9<br>23<br>23 | 853<br>3.2<br>49<br>49 | 1420<br>2.0<br>23<br>23 | 1055<br>2.6<br>49<br>49 | 1862<br>1.5<br>21<br>21 | 1295<br>2.2<br>49<br>49 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.97 | 2891 | 65.306 |
| 503<br>5.2<br>49<br>49 | 1103<br>2.6<br>21<br>20 | 962<br>2.9<br>44<br>44 | 1599<br>1.8<br>21<br>20 | 1189<br>2.3<br>44<br>44 | 2094<br>1.4<br>18<br>18 | 1458<br>1.9<br>44<br>42 | 1882<br>1.5<br>19<br>19 | 1457<br>2.0<br>41<br>30 | 2803<br>1.0<br>19<br>19 | 2024<br>1.4<br>41<br>30 | 2236<br>1.3<br>41<br>30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.84 | 2875 | 73.335 |
| 567<br>5.2<br>44<br>43 | 1243<br>2.6<br>18<br>18 | 1084<br>2.9<br>39<br>39 | 1801<br>1.8<br>18<br>18 | 1339<br>2.3<br>39<br>39 | 2360<br>1.4<br>16<br>16 | 1643<br>1.9<br>39<br>37 | 2121<br>1.5<br>17<br>17 | 1642<br>2.0<br>36<br>27 | 3158<br>1.0<br>17<br>17 | 2280<br>1.4<br>36<br>27 | 2520<br>1.3<br>36<br>27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.71 | 3240 | 82.631 |
| 646<br>4.5<br>39<br>38 | 1412<br>2.2<br>16<br>16 | 1232<br>2.5<br>35<br>34 | 2044<br>1.6<br>16<br>16 | 1521<br>2.0<br>35<br>34 | 2676<br>1.2<br>14<br>14 | 1864<br>1.7<br>35<br>34 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.05 | 3206 | 93.540 |
| 728<br>4.5<br>34<br>34 | 1591<br>2.2<br>14<br>14 | 1388<br>2.5<br>31<br>31 | 2303<br>1.6<br>14<br>14 | 1714<br>2.0<br>31<br>31 | 3016<br>1.2<br>13<br>13 | 2100<br>1.7<br>31<br>31 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.97 | 3613 | 105.397 |
| 795<br>4.0<br>31<br>31 | 1734<br>2.0<br>13<br>13 | 1513<br>2.2<br>28<br>28 | 2508<br>1.4<br>13<br>13 | 1867<br>1.8<br>28<br>28 | 3283<br>1.1<br>12<br>12 | 2288<br>1.5<br>28<br>28 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.71 | 3501 | 114.586 |
| 896<br>4.0<br>28<br>28 | 1954<br>2.0<br>12<br>12 | 1705<br>2.2<br>25<br>25 | 2826<br>1.4<br>12<br>12 | 2104<br>1.8<br>25<br>25 | 3699<br>1.1<br>11<br>10 | 2578<br>1.5<br>25<br>25 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.66 | 3945 | 129.111 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.30 | 3063 | 149.144 |
| 1042<br>3.4<br>24<br>24 | 2264<br>1.7<br>10<br>10 | 1977<br>1.9<br>22<br>22 | 3272<br>1.2<br>10<br>10 | 2437<br>1.6<br>22<br>22 | | 2985<br>1.3<br>22<br>22 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.30 | 3894 | 149.144 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.27 | 3451 | 168.049 |
| 1174<br>3.4<br>21<br>21 | 2551<br>1.7<br>9<br>9 | 2227<br>1.9<br>19<br>19 | 3687<br>1.2<br>9<br>9 | 2746<br>1.6<br>19<br>19 | | 3363<br>1.3<br>19<br>19 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.27 | 4387 | 168.049 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 3211 | 182.792 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

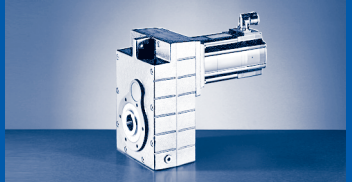
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5950$ Nm

| GFL11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 182.792 | 4131 | 1.66 | $M_2$ | | | | | 928 | 720 | 1722 | 1369 | 1283 | 2340 | 1903 | |
| | | | c | | | | | 4.3 | 5.0 | 2.4 | 3.0 | 3.0 | 1.8 | 2.0 | |
| | | | $n_{2\,Eck}$ | | | | | 11 | 22 | 8 | 16 | 19 | 11 | 22 | |
| | | | $n_{2\,th}$ | | | | | 11 | 22 | 8 | 16 | 19 | 11 | 22 | |
| 182.792 | 4233 | 1.66 | $M_2$ | | | | | | | | | | | | 1580 |
| | | | c | | | | | | | | | | | | 2.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 8 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 8 |
| 205.963 | 3618 | 1.64 | $M_2$ | | 581 | 722 | 861 | | | | | | | | |
| | | | c | | 5.5 | 4.4 | 3.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 18 | 20 | 20 | | | | | | | | |
| | | | $n_{2\,th}$ | | 18 | 20 | 20 | | | | | | | | |
| 205.963 | 4655 | 1.64 | $M_2$ | | | | | 1045 | 811 | 1940 | 1542 | 1446 | 2636 | 2144 | |
| | | | c | | | | | 4.3 | 5.0 | 2.4 | 3.0 | 3.0 | 1.8 | 2.0 | |
| | | | $n_{2\,Eck}$ | | | | | 10 | 20 | 7 | 15 | 17 | 10 | 20 | |
| | | | $n_{2\,th}$ | | | | | 9 | 20 | 7 | 15 | 17 | 9 | 20 | |
| 205.963 | 4769 | 1.64 | $M_2$ | | | | | | | | | | | | 1780 |
| | | | c | | | | | | | | | | | | 2.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 7 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 7 |
| 224.636 | 3946 | 1.52 | $M_2$ | | 634 | 787 | 939 | | | | | | | | |
| | | | c | | 5.5 | 4.4 | 3.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 17 | 18 | 18 | | | | | | | | |
| | | | $n_{2\,th}$ | | 17 | 18 | 18 | | | | | | | | |
| 224.636 | 4523 | 1.52 | $M_2$ | | | | | 1146 | 890 | 2122 | 1688 | 1582 | 2881 | 2343 | 1948 |
| | | | c | | | | | 3.8 | 4.4 | 2.1 | 2.6 | 2.7 | 1.6 | 1.7 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | 9 | 18 | 7 | 13 | 16 | 9 | 18 | 7 |
| | | | $n_{2\,th}$ | | | | | 9 | 18 | 7 | 13 | 16 | 9 | 18 | 7 |
| 253.111 | 4446 | 1.50 | $M_2$ | | 715 | 887 | 1058 | | | | | | | | |
| | | | c | | 5.5 | 4.4 | 3.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 15 | 16 | 16 | | | | | | | | |
| | | | $n_{2\,th}$ | | 15 | 16 | 16 | | | | | | | | |
| 253.111 | 5097 | 1.50 | $M_2$ | | | | | 1291 | 1003 | 2391 | 1902 | 1783 | 3246 | 2640 | 2195 |
| | | | c | | | | | 3.8 | 4.4 | 2.1 | 2.6 | 2.7 | 1.6 | 1.7 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | 8 | 16 | 6 | 12 | 14 | 8 | 16 | 6 |
| | | | $n_{2\,th}$ | | | | | 8 | 16 | 6 | 12 | 14 | 8 | 16 | 6 |
| 267.259 | 5106 | 1.87 | $M_2$ | | 750 | 932 | 1113 | 1366 | 1061 | 2527 | 2011 | 1885 | 3431 | 2791 | 2321 |
| | | | c | | 6.0 | 4.8 | 4.0 | 3.6 | 4.2 | 2.0 | 2.5 | 2.5 | 1.5 | 1.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | 14 | 15 | 15 | 7 | 15 | 6 | 11 | 13 | 7 | 15 | 6 |
| | | | $n_{2\,th}$ | | 14 | 15 | 15 | 7 | 15 | 6 | 11 | 13 | 7 | 15 | 6 |
| 327.556 | 5523 | 1.37 | $M_2$ | | 927 | 1150 | 1371 | 1682 | 1308 | 3105 | 2473 | 2318 | 4212 | 3427 | 2852 |
| | | | c | | 5.3 | 4.2 | 3.6 | 3.2 | 3.7 | 1.8 | 2.2 | 2.2 | 1.3 | 1.5 | 1.9 |
| | | | $n_{2\,Eck}$ | | 12 | 12 | 12 | 6 | 12 | 5 | 9 | 11 | 6 | 12 | 5 |
| | | | $n_{2\,th}$ | | 11 | 12 | 12 | 6 | 12 | 5 | 9 | 11 | 6 | 12 | 5 |
| 358.077 | 4103 | 0.68 | $M_2$ | 756 | 1032 | 1275 | 1517 | | | | | | | | |
| | | | c | 4.7 | 3.6 | 2.9 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 11 | 11 | 11 | | | | | | | | |
| | | | $n_{2\,th}$ | 11 | 10 | 11 | 11 | | | | | | | | |
| 358.077 | 5280 | 0.68 | $M_2$ | | | | | 1847 | 1437 | 3403 | 2711 | 2541 | 4613 | 3754 | |
| | | | c | | | | | 2.8 | 3.3 | 1.5 | 1.9 | 2.0 | 1.1 | 1.3 | |
| | | | $n_{2\,Eck}$ | | | | | 6 | 11 | 4 | 8 | 10 | 6 | 11 | |
| | | | $n_{2\,th}$ | | | | | 5 | 11 | 4 | 8 | 10 | 5 | 11 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5950$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC30 | GFL11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 4131 | 182.792 |
| 1282<br>3.0<br>20<br>20 | 2780<br>1.5<br>8<br>8 | 2428<br>1.7<br>18<br>18 | 4016<br>1.1<br>8<br>8 | 2993<br>1.4<br>18<br>18 | | 3664<br>1.1<br>18<br>18 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 4233 | 182.792 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 3618 | 205.963 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 4655 | 205.963 |
| 1445<br>3.0<br>18<br>17 | 3132<br>1.5<br>7<br>7 | 2736<br>1.7<br>16<br>16 | 4525<br>1.1<br>7<br>7 | 3372<br>1.4<br>16<br>16 | | 4128<br>1.1<br>16<br>16 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 4769 | 205.963 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 3946 | 224.636 |
| 1582<br>2.6<br>16<br>16 | 3423<br>1.3<br>7<br>7 | 2991<br>1.5<br>14<br>14 | | 3685<br>1.2<br>14<br>14 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 4523 | 224.636 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.50 | 4446 | 253.111 |
| 1783<br>2.6<br>14<br>14 | 3857<br>1.3<br>6<br>6 | 3370<br>1.5<br>13<br>13 | | 4152<br>1.2<br>13<br>13 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.50 | 5097 | 253.111 |
| 1885<br>2.5<br>14<br>13 | 4076<br>1.3<br>6<br>6 | 3561<br>1.4<br>12<br>12 | | 4387<br>1.1<br>12<br>12 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.87 | 5106 | 267.259 |
| 2318<br>2.2<br>11<br>11 | 5003<br>1.1<br>5<br>5 | 4372<br>1.2<br>10<br>10 | | 5384<br>1.0<br>10<br>10 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.37 | 5523 | 327.556 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.68 | 4103 | 358.077 |
| | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.68 | 5280 | 358.077 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

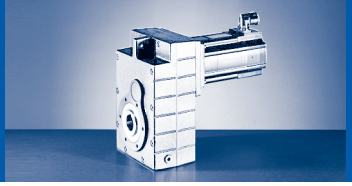
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5950$ Nm

| GFL11-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 403.467 | 4623 | 0.67 | $M_2$ | 852 | 1163 | 1437 | 1710 | | | | | | | | |
| | | | c | 4.7 | 3.6 | 2.9 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 9 | 10 | 10 | | | | | | | | |
| | | | $n_{2\,th}$ | 10 | 9 | 10 | 10 | | | | | | | | |
| 403.467 | 5950 | 0.67 | $M_2$ | | | | | 2081 | 1619 | 3834 | 3055 | 2863 | 5198 | 4229 | |
| | | | c | | | | | 2.8 | 3.3 | 1.5 | 1.9 | 2.0 | 1.1 | 1.3 | |
| | | | $n_{2\,Eck}$ | | | | | 5 | 10 | 4 | 7 | 9 | 5 | 10 | |
| | | | $n_{2\,th}$ | | | | | 5 | 10 | 4 | 7 | 9 | 5 | 10 | |
| 430.222 | 5912 | 0.85 | $M_2$ | 900 | 1230 | 1523 | 1814 | | | | | | | | |
| | | | c | 5.7 | 4.3 | 3.4 | 2.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 9 | 9 | 9 | 9 | | | | | | | | |
| | | | $n_{2\,th}$ | 9 | 9 | 9 | 9 | | | | | | | | |
| 430.222 | 5942 | 0.85 | $M_2$ | | | | | 2223 | 1730 | 4092 | 3261 | 3057 | 5546 | 4514 | |
| | | | c | | | | | 2.6 | 3.0 | 1.5 | 1.8 | 1.8 | 1.1 | 1.2 | |
| | | | $n_{2\,Eck}$ | | | | | 5 | 9 | 4 | 7 | 8 | 5 | 9 | |
| | | | $n_{2\,th}$ | | | | | 5 | 9 | 3 | 7 | 8 | 5 | 9 | |
| 522.133 | 5942 | 0.62 | $M_2$ | 1103 | 1505 | 1860 | 2213 | 2711 | 2112 | 4980 | 3972 | 3723 | | | |
| | | | c | 4.7 | 3.6 | 2.8 | 2.4 | 2.2 | 2.5 | 1.2 | 1.5 | 1.5 | | | |
| | | | $n_{2\,Eck}$ | 8 | 7 | 8 | 8 | 4 | 8 | 3 | 6 | 7 | | | |
| | | | $n_{2\,th}$ | 8 | 7 | 8 | 8 | 4 | 8 | 3 | 6 | 7 | | | |
| 562.391 | 5319 | 0.60 | $M_2$ | 1199 | 1632 | 2013 | 2394 | 2931 | 2285 | | 4289 | 4020 | | | |
| | | | c | 3.9 | 3.0 | 2.4 | 2.0 | 1.8 | 2.1 | | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 7 | 7 | 7 | 7 | 4 | 7 | | 5 | 6 | | | |
| | | | $n_{2\,th}$ | 7 | 7 | 7 | 7 | 3 | 7 | | 5 | 6 | | | |
| 633.680 | 5844 | 0.60 | $M_2$ | 1352 | 1840 | 2270 | 2698 | 3304 | 2576 | | 4834 | 4532 | | | |
| | | | c | 3.8 | 2.9 | 2.3 | 1.9 | 1.8 | 2.0 | | 1.2 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | 6 | 6 | 3 | 6 | | 5 | 6 | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | 6 | 3 | 6 | | 5 | 6 | | | |
| 710.888 | 5319 | 0.39 | $M_2$ | 1529 | 2076 | 2558 | 3039 | | | | | | | | |
| | | | c | 3.1 | 2.4 | 1.9 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 5 | 6 | 6 | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 5 | 6 | 6 | | | | | | | | |
| 801.000 | 5844 | 0.38 | $M_2$ | 1724 | 2341 | 2884 | 3425 | | | | | | | | |
| | | | c | 3.0 | 2.3 | 1.8 | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | 5 | | | | | | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | 5 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5950$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC30 | GFL11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.67 | 4623 | 403.467 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.67 | 5950 | 403.467 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.85 | 5912 | 430.222 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.85 | 5942 | 430.222 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.62 | 5942 | 522.133 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.60 | 5319 | 562.391 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.60 | 5844 | 633.680 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.39 | 5319 | 710.888 |
| | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.38 | 5844 | 801.000 |

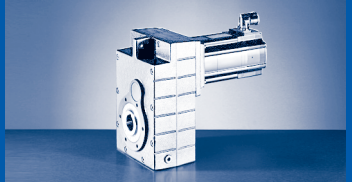
M ... [Nm]
n ... [r/min]
J ... [kgcm²]
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 4971$ Nm

| GFL14-2S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 8.800 | 2033 | 247.00 | $M_2$ | | | 324 | | 419 | 259 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 162 | | 153 | 341 |
| | | | $n_{2\,th}$ | | | 162 | | 153 | 194 |
| 9.571 | 2211 | 232.00 | $M_2$ | | | 352 | | 456 | 282 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 149 | | 141 | 313 |
| | | | $n_{2\,th}$ | | | 149 | | 141 | 178 |
| 14.200 | 3280 | 625.00 | $M_2$ | | | 523 | | 676 | 419 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 100 | | 95 | 211 |
| | | | $n_{2\,th}$ | | | 100 | | 95 | 120 |
| 15.620 | 3389 | 156.00 | $M_2$ | | | 578 | | 746 | 462 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 91 | | 86 | 192 |
| | | | $n_{2\,th}$ | | | 91 | | 86 | 111 |
| 17.600 | 3818 | 146.00 | $M_2$ | | | 651 | | 840 | 521 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 81 | | 77 | 171 |
| | | | $n_{2\,th}$ | | | 81 | | 77 | 99 |
| 19.948 | 3646 | 111.00 | $M_2$ | | | 745 | 537 | 960 | 596 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 71 | 150 | 68 | 150 |
| | | | $n_{2\,th}$ | | | 71 | 99 | 68 | 97 |
| 22.476 | 4108 | 105.00 | $M_2$ | | | 839 | 605 | 1081 | 671 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 63 | 134 | 60 | 134 |
| | | | $n_{2\,th}$ | | | 63 | 88 | 60 | 86 |
| 24.456 | 3842 | 83.20 | $M_2$ | 608 | | 919 | 659 | 1183 | 731 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 58 | | 58 | 123 | 55 | 123 |
| | | | $n_{2\,th}$ | 58 | | 58 | 90 | 55 | 89 |
| 27.556 | 4328 | 79.40 | $M_2$ | 685 | | 1036 | 743 | 1333 | 824 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 52 | | 52 | 109 | 49 | 109 |
| | | | $n_{2\,th}$ | 52 | | 52 | 80 | 49 | 79 |
| 32.344 | 4045 | 52.90 | $M_2$ | 814 | 628 | 1227 | 882 | 1575 | 977 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 44 | 93 | 44 | 93 | 42 | 93 |
| | | | $n_{2\,th}$ | 44 | 68 | 44 | 68 | 42 | 68 |
| 36.444 | 4558 | 50.70 | $M_2$ | 918 | 708 | 1382 | 994 | 1775 | 1101 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 39 | 82 | 39 | 82 | 37 | 82 |
| | | | $n_{2\,th}$ | 39 | 61 | 39 | 61 | 37 | 61 |
| 39.642 | 4238 | 38.00 | $M_2$ | 1005 | 777 | 1511 | 1087 | 1938 | 1204 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 36 | 76 | 36 | 76 | 34 | 76 |
| | | | $n_{2\,th}$ | 36 | 56 | 36 | 56 | 34 | 56 |
| 44.667 | 4776 | 36.60 | $M_2$ | 1133 | 875 | 1702 | 1225 | 2184 | 1357 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 32 | 67 | 32 | 67 | 30 | 67 |
| | | | $n_{2\,th}$ | 32 | 49 | 32 | 49 | 30 | 49 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 4971$ Nm

| GFL14-2S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 52.067 | 4358 | 24.60 | $M_2$ | 1333 | 1031 | 1997 | 1440 | 2558 | 1593 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 27 | 58 | 27 | 58 | 26 | 58 |
| | | | $n_{2\,th}$ | 27 | 42 | 27 | 42 | 26 | 42 |
| 58.667 | 4911 | 23.80 | $M_2$ | 1502 | 1162 | 2250 | 1622 | 2882 | 1795 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 24 | 51 | 24 | 51 | 23 | 51 |
| | | | $n_{2\,th}$ | 24 | 38 | 24 | 38 | 23 | 38 |
| 63.190 | 4412 | 18.00 | $M_2$ | 1627 | 1260 | 2432 | 1755 | 3113 | 1941 |
| | | | c | 2.7 | 3.1 | 1.8 | 2.2 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 23 | 48 | 23 | 48 | 21 | 48 |
| | | | $n_{2\,th}$ | 23 | 35 | 23 | 35 | 21 | 35 |
| 71.200 | 4971 | 17.40 | $M_2$ | 1833 | 1414 | 2740 | 1973 | 3508 | 2182 |
| | | | c | 2.7 | 3.4 | 1.8 | 2.5 | 1.4 | 2.3 |
| | | | $n_{2\,Eck}$ | 20 | 42 | 20 | 42 | 19 | 42 |
| | | | $n_{2\,th}$ | 20 | 31 | 20 | 31 | 19 | 31 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

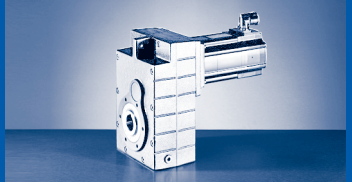
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11496$ Nm

| GFL14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 64.296 | 5534 | 26.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 936<br>5.6<br>23<br>23 |
| 64.296 | 5610 | 26.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 68.708 | 3311 | 19.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 629<br>5.0<br>22<br>22 | | | 861<br>3.7<br>28<br>28 | 699<br>4.2<br>59<br>52 | | | |
| 68.708 | 5182 | 19.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1007<br>4.9<br>22<br>22 |
| 68.708 | 5416 | 19.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 77.418 | 3730 | 19.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 709<br>5.0<br>19<br>19 | | | 970<br>3.7<br>25<br>25 | 787<br>4.2<br>52<br>46 | | | |
| 77.418 | 5839 | 19.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1135<br>4.9<br>19<br>19 |
| 77.418 | 6103 | 19.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 85.037 | 6276 | 21.59 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1248<br>4.8<br>18<br>18 |
| 104.889 | 3398 | 9.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 977<br>3.4<br>14<br>14 | 775<br>4.2<br>29<br>29 | 726<br>4.3<br>34<br>34 | 1332<br>2.5<br>19<br>19 | 1082<br>2.8<br>39<br>39 | | | |
| 104.889 | 5307 | 9.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 876<br>5.8<br>14<br>14 | | 1565<br>3.3<br>14<br>14 |
| 114.126 | 3697 | 8.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1063<br>3.4<br>13<br>13 | 843<br>4.2<br>26<br>26 | 790<br>4.3<br>31<br>31 | 1449<br>2.5<br>17<br>17 | 1177<br>2.8<br>36<br>35 | | | |
| 114.126 | 5774 | 8.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 953<br>5.8<br>13<br>13 | | 1703<br>3.3<br>13<br>13 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11496$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 818 | 1370 | 1017 | 1805 | 1253 | | | | | | | $M_2$ | 26.32 | 5534 | 64.296 |
| 5.7 | 3.9 | 4.6 | 3.0 | 3.8 | | | | | | | c | | | |
| 50 | 23 | 50 | 21 | 50 | | | | | | | $n_{2\,Eck}$ | | | |
| 50 | 23 | 50 | 21 | 48 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1618 | 1251 | 2425 | 1748 | 3108 | 1934 | $M_2$ | 26.32 | 5610 | 64.296 |
| | | | | | 3.4 | 3.9 | 2.3 | 2.8 | 1.8 | 2.6 | c | | | |
| | | | | | 22 | 47 | 22 | 47 | 21 | 47 | $n_{2\,Eck}$ | | | |
| | | | | | 22 | 34 | 22 | 34 | 21 | 34 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 19.86 | 3311 | 68.708 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 876 | 1472 | 1088 | 1936 | 1340 | | | | | | | $M_2$ | 19.86 | 5182 | 68.708 |
| 5.5 | 3.4 | 4.5 | 2.6 | 3.7 | | | | | | | c | | | |
| 47 | 22 | 47 | 20 | 47 | | | | | | | $n_{2\,Eck}$ | | | |
| 47 | 22 | 47 | 20 | 47 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1735 | 1337 | 2597 | 1867 | 3327 | 2067 | $M_2$ | 19.86 | 5416 | 68.708 |
| | | | | | 3.1 | 3.9 | 2.1 | 2.8 | 1.6 | 2.6 | c | | | |
| | | | | | 21 | 44 | 21 | 44 | 20 | 44 | $n_{2\,Eck}$ | | | |
| | | | | | 21 | 32 | 21 | 32 | 20 | 32 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 19.38 | 3730 | 77.418 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 987 | 1658 | 1226 | 2182 | 1510 | | | | | | | $M_2$ | 19.38 | 5839 | 77.418 |
| 5.5 | 3.4 | 4.5 | 2.6 | 3.7 | | | | | | | c | | | |
| 42 | 19 | 42 | 17 | 42 | | | | | | | $n_{2\,Eck}$ | | | |
| 42 | 19 | 42 | 17 | 42 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1955 | 1506 | 2927 | 2104 | 3749 | 2328 | $M_2$ | 19.38 | 6103 | 77.418 |
| | | | | | 3.1 | 3.9 | 2.1 | 2.8 | 1.6 | 2.6 | c | | | |
| | | | | | 18 | 39 | 18 | 39 | 17 | 39 | $n_{2\,Eck}$ | | | |
| | | | | | 18 | 29 | 18 | 29 | 17 | 29 | $n_{2\,th}$ | | | |
| 1086 | 1823 | 1348 | 2398 | 1660 | 2152 | 1659 | 3219 | 2316 | 4122 | 2562 | $M_2$ | 21.59 | 6276 | 85.037 |
| 5.4 | 3.4 | 4.4 | 2.6 | 3.6 | 2.9 | 3.7 | 1.9 | 2.7 | 1.5 | 2.4 | c | | | |
| 38 | 18 | 38 | 16 | 38 | 17 | 35 | 17 | 35 | 16 | 35 | $n_{2\,Eck}$ | | | |
| 38 | 18 | 37 | 16 | 36 | 17 | 26 | 17 | 26 | 16 | 26 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 9.32 | 3398 | 104.889 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1364 | 2274 | 1688 | 2983 | 2073 | | | | | | | $M_2$ | 9.32 | 5307 | 104.889 |
| 3.7 | 2.3 | 3.0 | 1.8 | 2.5 | | | | | | | c | | | |
| 31 | 14 | 31 | 13 | 31 | | | | | | | $n_{2\,Eck}$ | | | |
| 31 | 14 | 31 | 13 | 31 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 8.32 | 3697 | 114.126 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1484 | 2474 | 1837 | 3246 | 2255 | | | | | | | $M_2$ | 8.32 | 5774 | 114.126 |
| 3.7 | 2.3 | 3.0 | 1.8 | 2.5 | | | | | | | c | | | |
| 28 | 13 | 28 | 12 | 28 | | | | | | | $n_{2\,Eck}$ | | | |
| 28 | 13 | 28 | 12 | 28 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

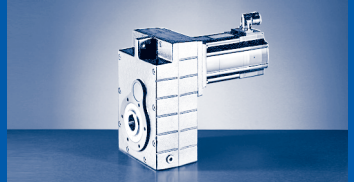
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11496$ Nm

| GFL14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 128.593 | 4166 | 8.14 | $M_2$ | | | 1198 | 950 | 890 | 1633 | 1327 | | | |
| | | | c | | | 3.4 | 4.2 | 4.3 | 2.5 | 2.8 | | | |
| | | | $n_{2\,Eck}$ | | | 12 | 23 | 27 | 15 | 32 | | | |
| | | | $n_{2\,th}$ | | | 12 | 23 | 27 | 15 | 31 | | | |
| 128.593 | 6506 | 8.14 | $M_2$ | | | | | | | | 1074 | | 1919 |
| | | | c | | | | | | | | 5.8 | | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 12 | | 12 |
| | | | $n_{2\,th}$ | | | | | | | | 12 | | 12 |
| 136.889 | 7359 | 16.78 | $M_2$ | | | | | | | | | | 2038 |
| | | | c | | | | | | | | | | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 11 |
| | | | $n_{2\,th}$ | | | | | | | | | | 11 |
| 156.148 | 4335 | 5.92 | $M_2$ | 784 | | 1463 | 1161 | 1088 | 1990 | 1618 | | | |
| | | | c | 5.3 | | 2.9 | 3.6 | 3.7 | 2.2 | 2.4 | | | |
| | | | $n_{2\,Eck}$ | 13 | | 10 | 19 | 23 | 13 | 26 | | | |
| | | | $n_{2\,th}$ | 12 | | 10 | 19 | 23 | 12 | 26 | | | |
| 156.148 | 6760 | 5.92 | $M_2$ | | | | | | | | 1317 | 1064 | 2342 |
| | | | c | | | | | | | | 4.9 | 5.7 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 10 | 23 | 10 |
| | | | $n_{2\,th}$ | | | | | | | | 10 | 23 | 10 |
| 170.074 | 5510 | 6.96 | $M_2$ | | | 1585 | 1256 | 1177 | 2160 | 1754 | | | |
| | | | c | | | 3.4 | 4.2 | 4.3 | 2.5 | 2.8 | | | |
| | | | $n_{2\,Eck}$ | | | 9 | 18 | 21 | 12 | 24 | | | |
| | | | $n_{2\,th}$ | | | 9 | 18 | 21 | 11 | 24 | | | |
| 170.074 | 8408 | 6.96 | $M_2$ | | | | | | | | 1423 | | 2540 |
| | | | c | | | | | | | | 5.6 | | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | 9 | | 9 |
| | | | $n_{2\,th}$ | | | | | | | | 9 | | 9 |
| 202.074 | 4498 | 3.69 | $M_2$ | 1026 | 797 | 1904 | 1514 | 1419 | 2587 | 2104 | | | |
| | | | c | 4.2 | 4.9 | 2.3 | 2.9 | 2.9 | 1.7 | 1.9 | | | |
| | | | $n_{2\,Eck}$ | 10 | 20 | 7 | 15 | 17 | 10 | 20 | | | |
| | | | $n_{2\,th}$ | 10 | 20 | 7 | 15 | 17 | 10 | 20 | | | |
| 202.074 | 7010 | 3.69 | $M_2$ | | | | | | | | 1722 | 1395 | 3049 |
| | | | c | | | | | | | | 4.0 | 4.6 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 7 | 18 | 7 |
| | | | $n_{2\,th}$ | | | | | | | | 7 | 18 | 7 |
| 224.636 | 6236 | 4.74 | $M_2$ | 1128 | | 2104 | 1670 | 1565 | 2863 | 2327 | | | |
| | | | c | 5.3 | | 2.9 | 3.6 | 3.7 | 2.2 | 2.4 | | | |
| | | | $n_{2\,Eck}$ | 9 | | 7 | 13 | 16 | 9 | 18 | | | |
| | | | $n_{2\,th}$ | 9 | | 7 | 13 | 16 | 9 | 18 | | | |
| 224.636 | 8739 | 4.74 | $M_2$ | | | | | | | | 1904 | 1541 | 3379 |
| | | | c | | | | | | | | 4.4 | 5.1 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | 7 | 16 | 7 |
| | | | $n_{2\,th}$ | | | | | | | | 7 | 16 | 7 |
| 253.111 | 7027 | 4.70 | $M_2$ | 1271 | | 2371 | 1882 | 1763 | 3226 | 2622 | | | |
| | | | c | 5.3 | | 2.9 | 3.6 | 3.7 | 2.2 | 2.4 | | | |
| | | | $n_{2\,Eck}$ | 8 | | 6 | 12 | 14 | 8 | 16 | | | |
| | | | $n_{2\,th}$ | 8 | | 6 | 12 | 14 | 8 | 16 | | | |
| 253.111 | 9846 | 4.70 | $M_2$ | | | | | | | | 2146 | 1736 | 3808 |
| | | | c | | | | | | | | 4.4 | 5.1 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | 6 | 14 | 6 |
| | | | $n_{2\,th}$ | | | | | | | | 6 | 14 | 6 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11496$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.14 | 4166 | 128.593 |
| 1672<br>3.7<br>25<br>25 | 2788<br>2.3<br>12<br>12 | 2069<br>3.0<br>25<br>25 | 3657<br>1.8<br>11<br>11 | 2541<br>2.5<br>25<br>25 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.14 | 6506 | 128.593 |
| 1775<br>3.9<br>24<br>23 | 2963<br>2.5<br>11<br>11 | 2198<br>3.2<br>24<br>22 | 3889<br>1.9<br>10<br>10 | 2701<br>2.6<br>24<br>21 | 3492<br>2.1<br>10<br>10 | 2699<br>2.7<br>22<br>16 | 5211<br>1.4<br>10<br>10 | 3757<br>1.9<br>22<br>16 | 6665<br>1.1<br>10<br>10 | 4153<br>1.8<br>22<br>16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.78 | 7359 | 136.889 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.92 | 4335 | 156.148 |
| 2042<br>3.2<br>21<br>21 | 3397<br>2.0<br>10<br>10 | 2525<br>2.6<br>21<br>21 | 4453<br>1.5<br>9<br>9 | 3097<br>2.1<br>21<br>21 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.92 | 6760 | 156.148 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.96 | 5510 | 170.074 |
| 2213<br>3.6<br>19<br>19 | 3689<br>2.3<br>9<br>9 | 2739<br>2.9<br>19<br>19 | 4839<br>1.7<br>8<br>8 | 3363<br>2.4<br>19<br>19 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.96 | 8408 | 170.074 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.69 | 4498 | 202.074 |
| 2660<br>2.5<br>16<br>16 | 4415<br>1.6<br>7<br>7 | 3285<br>2.1<br>16<br>16 | 5781<br>1.2<br>7<br>7 | 4026<br>1.7<br>16<br>16 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.69 | 7010 | 202.074 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.74 | 6236 | 224.636 |
| 2948<br>2.8<br>14<br>14 | 4898<br>1.8<br>7<br>7 | 3642<br>2.3<br>14<br>14 | 6416<br>1.4<br>6<br>6 | 4466<br>1.9<br>14<br>14 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.74 | 8739 | 224.636 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.70 | 7027 | 253.111 |
| 3321<br>2.8<br>13<br>13 | 5519<br>1.8<br>6<br>6 | 4103<br>2.3<br>13<br>13 | 7230<br>1.4<br>5<br>5 | 5032<br>1.9<br>13<br>13 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.70 | 9846 | 253.111 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

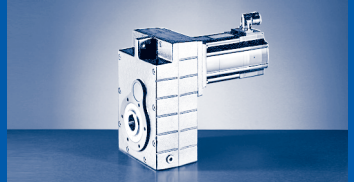
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11496$ Nm

| GFL14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 273.778 | 8870 | 5.76 | $M_2$ | | | 2551 | 2022 | 1895 | 3476 | 2824 | | | |
| | | | c | | | 3.4 | 4.2 | 4.3 | 2.5 | 2.8 | | | |
| | | | $n_{2\,Eck}$ | | | 6 | 11 | 13 | 7 | 15 | | | |
| | | | $n_{2\,th}$ | | | 5 | 11 | 13 | 7 | 15 | | | |
| 273.778 | 9753 | 5.76 | $M_2$ | | | | | | | | 2330 | 1887 | 4128 |
| | | | c | | | | | | | | 4.1 | 4.7 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 6 | 13 | 6 |
| | | | $n_{2\,th}$ | | | | | | | | 5 | 13 | 5 |
| 332.444 | 9229 | 4.30 | $M_2$ | 1669 | | 3114 | 2472 | 2316 | 4237 | 3444 | | | |
| | | | c | 5.3 | | 2.9 | 3.6 | 3.7 | 2.2 | 2.4 | | | |
| | | | $n_{2\,Eck}$ | 6 | | 5 | 9 | 11 | 6 | 12 | | | |
| | | | $n_{2\,th}$ | 6 | | 5 | 9 | 11 | 6 | 12 | | | |
| 332.444 | 10550 | 4.30 | $M_2$ | | | | | | | | 2843 | 2304 | 5026 |
| | | | c | | | | | | | | 3.6 | 4.2 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | | | | | 5 | 11 | 5 |
| | | | $n_{2\,th}$ | | | | | | | | 5 | 11 | 5 |
| 352.811 | 6551 | 2.16 | $M_2$ | 1805 | 1403 | 3338 | 2657 | 2490 | 4531 | 3686 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 6 | 12 | 4 | 9 | 10 | 6 | 12 | | | |
| | | | $n_{2\,th}$ | 6 | 11 | 4 | 9 | 10 | 6 | 11 | | | |
| 352.811 | 10203 | 2.16 | $M_2$ | | | | | | | | 3028 | 2455 | 5344 |
| | | | c | | | | | | | | 3.3 | 3.8 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 4 | 10 | 4 |
| | | | $n_{2\,th}$ | | | | | | | | 4 | 10 | 4 |
| 397.533 | 7382 | 2.15 | $M_2$ | 2034 | 1581 | 3762 | 2994 | 2806 | 5105 | 4153 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 5 | 10 | 4 | 8 | 9 | 5 | 10 | | | |
| | | | $n_{2\,th}$ | 5 | 10 | 4 | 8 | 9 | 5 | 10 | | | |
| 397.533 | 11496 | 2.15 | $M_2$ | | | | | | | | 3411 | 2766 | 6022 |
| | | | c | | | | | | | | 3.3 | 3.8 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | | | | 4 | 9 | 4 |
| | | | $n_{2\,th}$ | | | | | | | | 4 | 9 | 4 |
| 430.222 | 9576 | 2.73 | $M_2$ | 2185 | 1696 | 4054 | 3223 | 3021 | 5508 | 4479 | | | |
| | | | c | 4.2 | 4.9 | 2.3 | 2.9 | 2.9 | 1.7 | 1.9 | | | |
| | | | $n_{2\,Eck}$ | 5 | 9 | 4 | 7 | 8 | 5 | 9 | | | |
| | | | $n_{2\,th}$ | 5 | 9 | 3 | 7 | 8 | 5 | 9 | | | |
| 430.222 | 10560 | 2.73 | $M_2$ | | | | | | | | 3712 | 3012 | 6537 |
| | | | c | | | | | | | | 2.8 | 3.2 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | 4 | 8 | 4 |
| | | | $n_{2\,th}$ | | | | | | | | 3 | 8 | 3 |
| 522.133 | 9695 | 1.98 | $M_2$ | 2672 | 2076 | 4941 | 3932 | 3685 | 6705 | 5455 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 4 | 8 | 3 | 6 | 7 | 4 | 8 | | | |
| | | | $n_{2\,th}$ | 4 | 8 | 3 | 6 | 7 | 4 | 8 | | | |
| 522.133 | 10560 | 1.98 | $M_2$ | | | | | | | | 4528 | 3678 | 7957 |
| | | | c | | | | | | | | 2.3 | 2.7 | 1.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 3 | 7 | 3 |
| | | | $n_{2\,th}$ | | | | | | | | 3 | 7 | 3 |
| 562.391 | 9036 | 1.91 | $M_2$ | 2892 | 2250 | 5336 | 4250 | 3984 | 7237 | 5888 | 4902 | 3984 | 8595 |
| | | | c | 3.1 | 3.5 | 1.7 | 2.1 | 2.1 | 1.3 | 1.4 | 1.8 | 2.1 | 1.1 |
| | | | $n_{2\,Eck}$ | 4 | 7 | 3 | 5 | 6 | 4 | 7 | 3 | 6 | 3 |
| | | | $n_{2\,th}$ | 3 | 7 | 3 | 5 | 6 | 3 | 7 | 3 | 6 | 3 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11496$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.76 | 8870 | 273.778 |
| 3602<br>2.6<br>12<br>12 | 5979<br>1.6<br>6<br>5 | 4448<br>2.1<br>12<br>12 | 7829<br>1.2<br>5<br>5 | 5452<br>1.7<br>12<br>12 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.76 | 9753 | 273.778 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.30 | 9229 | 332.444 |
| 4387<br>2.3<br>10<br>10 | 7273<br>1.4<br>5<br>5 | 5414<br>1.9<br>10<br>10 | 9521<br>1.1<br>4<br>4 | 6634<br>1.5<br>10<br>10 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.30 | 10550 | 332.444 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.16 | 6551 | 352.811 |
| 4666<br>2.1<br>9<br>9 | 7729<br>1.3<br>4<br>4 | 5756<br>1.7<br>9<br>9 | 10114<br>1.0<br>4<br>4 | 7050<br>1.4<br>9<br>9 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.16 | 10203 | 352.811 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.15 | 7382 | 397.533 |
| 5257<br>2.1<br>8<br>8 | 8709<br>1.3<br>4<br>4 | 6485<br>1.7<br>8<br>8 | 11396<br>1.0<br>3<br>3 | 7944<br>1.4<br>8<br>8 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.15 | 11496 | 397.533 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.73 | 9576 | 430.222 |
| 5708<br>1.8<br>8<br>8 | 9445<br>1.1<br>4<br>3 | 7038<br>1.5<br>8<br>8 | | 8617<br>1.2<br>8<br>8 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.73 | 10560 | 430.222 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.98 | 9695 | 522.133 |
| 6951<br>1.5<br>6<br>6 | | 8565<br>1.2<br>6<br>6 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.98 | 10560 | 522.133 |
| 7511<br>1.2<br>6<br>6 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.91 | 9036 | 562.391 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

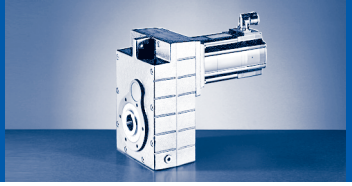
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11496$ Nm

| GFL14-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 633.680 | 9811 | 1.90 | $M_2$ | 3263 | 2538 | 6017 | 4793 | 4492 | 8158 | 6638 | 5527 | 4493 | 9688 |
| | | | c | 3.0 | 3.4 | 1.6 | 2.0 | 2.1 | 1.2 | 1.3 | 1.8 | 2.0 | 1.0 |
| | | | $n_{2\,Eck}$ | 3 | 6 | 2 | 5 | 6 | 3 | 6 | 2 | 6 | 2 |
| | | | $n_{2\,th}$ | 3 | 6 | 2 | 5 | 6 | 3 | 6 | 2 | 6 | 2 |
| 710.888 | 9036 | 1.26 | $M_2$ | 3681 | 2866 | 6770 | 5397 | 5059 | | 7466 | | | |
| | | | c | 2.4 | 2.8 | 1.3 | 1.7 | 1.7 | | 1.1 | | | |
| | | | $n_{2\,Eck}$ | 3 | 6 | 2 | 4 | 5 | | 6 | | | |
| | | | $n_{2\,th}$ | 3 | 6 | 2 | 4 | 5 | | 6 | | | |
| 801.000 | 9811 | 1.25 | $M_2$ | 4152 | 3233 | 7632 | 6085 | 5704 | | 8416 | | | |
| | | | c | 2.3 | 2.7 | 1.3 | 1.6 | 1.6 | | 1.1 | | | |
| | | | $n_{2\,Eck}$ | 2 | 5 | 2 | 4 | 4 | | 5 | | | |
| | | | $n_{2\,th}$ | 2 | 5 | 2 | 4 | 4 | | 5 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11496$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GFL14-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 8467<br>1.1<br>5<br>5 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.90 | 9811 | 633.680 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 9036 | 710.888 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 9811 | 801.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

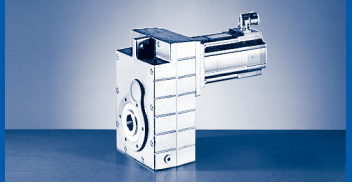
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 187$ Nm

| GFL04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 3.659 | 109 | 1.51 | $M_2$ | | 22 | 14 |
| | | | c | | 3.7 | 5.5 |
| | | | $n_{2\,Eck}$ | | 932 | 1107 |
| | | | $n_{2\,th}$ | | 932 | 1003 |
| 5.018 | 111 | 0.86 | $M_2$ | | 30 | 19 |
| | | | c | | 2.8 | 4.1 |
| | | | $n_{2\,Eck}$ | | 680 | 807 |
| | | | $n_{2\,th}$ | | 680 | 769 |
| 5.833 | 153 | 0.93 | $M_2$ | | 35 | 22 |
| | | | c | | 3.3 | 4.9 |
| | | | $n_{2\,Eck}$ | | 585 | 694 |
| | | | $n_{2\,th}$ | | 572 | 616 |
| 6.422 | 113 | 0.56 | $M_2$ | | 39 | 24 |
| | | | c | | 2.2 | 3.2 |
| | | | $n_{2\,Eck}$ | | 531 | 631 |
| | | | $n_{2\,th}$ | | 531 | 631 |
| 7.025 | 113 | 0.47 | $M_2$ | 13 | 42 | 27 |
| | | | c | 6.0 | 2.0 | 3.0 |
| | | | $n_{2\,Eck}$ | 562 | 485 | 577 |
| | | | $n_{2\,th}$ | 562 | 485 | 576 |
| 8.379 | 179 | 0.67 | $M_2$ | | 50 | 32 |
| | | | c | | 2.7 | 3.9 |
| | | | $n_{2\,Eck}$ | | 407 | 483 |
| | | | $n_{2\,th}$ | | 382 | 413 |
| 9.333 | 165 | 0.61 | $M_2$ | | 56 | 35 |
| | | | c | | 2.2 | 3.3 |
| | | | $n_{2\,Eck}$ | | 365 | 434 |
| | | | $n_{2\,th}$ | | 330 | 358 |
| 10.238 | 159 | 0.37 | $M_2$ | 19 | 62 | 39 |
| | | | c | 5.8 | 1.9 | 2.9 |
| | | | $n_{2\,Eck}$ | 386 | 333 | 396 |
| | | | $n_{2\,th}$ | 386 | 333 | 396 |
| 11.491 | 181 | 0.41 | $M_2$ | 21 | 70 | 44 |
| | | | c | 5.9 | 2.0 | 2.9 |
| | | | $n_{2\,Eck}$ | 344 | 297 | 353 |
| | | | $n_{2\,th}$ | 344 | 294 | 317 |
| 12.800 | 166 | 0.38 | $M_2$ | 24 | 78 | 49 |
| | | | c | 4.8 | 1.6 | 2.4 |
| | | | $n_{2\,Eck}$ | 309 | 266 | 316 |
| | | | $n_{2\,th}$ | 309 | 240 | 274 |
| 14.706 | 182 | 0.28 | $M_2$ | 27 | 89 | 56 |
| | | | c | 4.6 | 1.5 | 2.3 |
| | | | $n_{2\,Eck}$ | 269 | 232 | 275 |
| | | | $n_{2\,th}$ | 269 | 232 | 275 |
| 16.087 | 182 | 0.25 | $M_2$ | 30 | 98 | 62 |
| | | | c | 4.2 | 1.4 | 2.1 |
| | | | $n_{2\,Eck}$ | 246 | 212 | 252 |
| | | | $n_{2\,th}$ | 246 | 212 | 252 |
| 17.920 | 167 | 0.23 | $M_2$ | 34 | 109 | 69 |
| | | | c | 3.5 | 1.2 | 1.7 |
| | | | $n_{2\,Eck}$ | 220 | 190 | 226 |
| | | | $n_{2\,th}$ | 220 | 181 | 217 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 187$ Nm

| GFL04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 20.519 | 183 | 0.17 | $M_2$ | 39 | 125 | 79 |
| | | | c | 3.3 | 1.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 193 | 166 | 197 |
| | | | $n_{2\,th}$ | 193 | 166 | 197 |
| 22.857 | 167 | 0.16 | $M_2$ | 44 | | 88 |
| | | | c | 2.7 | | 1.4 |
| | | | $n_{2\,Eck}$ | 173 | | 177 |
| | | | $n_{2\,th}$ | 173 | | 174 |
| 25.136 | 183 | 0.13 | $M_2$ | 48 | 154 | 97 |
| | | | c | 3.1 | 1.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 157 | 136 | 161 |
| | | | $n_{2\,th}$ | 157 | 136 | 161 |
| 28.000 | 168 | 0.12 | $M_2$ | 53 | | 108 |
| | | | c | 2.5 | | 1.3 |
| | | | $n_{2\,Eck}$ | 141 | | 145 |
| | | | $n_{2\,th}$ | 141 | | 145 |
| 31.600 | 185 | 0.09 | $M_2$ | 60 | | |
| | | | c | 2.5 | | |
| | | | $n_{2\,Eck}$ | 125 | | |
| | | | $n_{2\,th}$ | 125 | | |
| 35.200 | 170 | 0.08 | $M_2$ | 68 | | |
| | | | c | 2.1 | | |
| | | | $n_{2\,Eck}$ | 112 | | |
| | | | $n_{2\,th}$ | 112 | | |
| 40.697 | 187 | 0.06 | $M_2$ | 78 | | |
| | | | c | 2.0 | | |
| | | | $n_{2\,Eck}$ | 97 | | |
| | | | $n_{2\,th}$ | 97 | | |
| 45.333 | 172 | 0.06 | $M_2$ | 87 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 87 | | |
| | | | $n_{2\,th}$ | 87 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

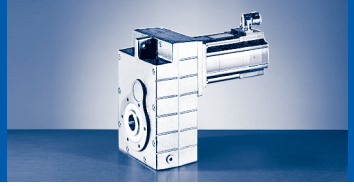
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 3.333 | 138 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 20<br>5.1<br>1023<br>910 | | | | | |
| 3.333 | 166 | 1.68 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 38<br>4.2<br>491<br>491 | | 34<br>3.6<br>1037<br>849 | |
| 4.571 | 170 | 2.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 27<br>4.6<br>746<br>746 | | 52<br>3.1<br>358<br>358 | 28<br>5.2<br>438<br>438 | 47<br>2.7<br>756<br>686 | 23<br>5.1<br>897<br>775 |
| 5.133 | 212 | 2.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 30<br>5.1<br>664<br>591 | | | | | |
| 5.133 | 223 | 2.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 58<br>3.6<br>319<br>319 | | 53<br>3.1<br>673<br>536 | 26<br>5.9<br>799<br>607 |
| 5.667 | 233 | 2.33 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 33<br>5.1<br>602<br>535 | | 64<br>3.4<br>289<br>289 | 35<br>5.7<br>353<br>353 | 58<br>3.0<br>610<br>480 | 28<br>5.6<br>724<br>544 |
| 6.400 | 173 | 0.82 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 38<br>3.4<br>533<br>533 | 24<br>5.0<br>633<br>621 | 74<br>2.3<br>256<br>255 | 40<br>3.8<br>313<br>313 | 66<br>2.0<br>540<br>527 | 33<br>3.7<br>641<br>561 |
| 7.040 | 248 | 1.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 42<br>4.4<br>484<br>484 | | 80<br>2.9<br>232<br>232 | 44<br>4.9<br>284<br>284 | 73<br>2.6<br>491<br>440 | 35<br>4.8<br>582<br>498 |
| 7.771 | 258 | 1.45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 46<br>4.1<br>439<br>439 | | 89<br>2.8<br>210<br>210 | 49<br>4.7<br>257<br>257 | 80<br>2.4<br>445<br>394 | 39<br>4.5<br>528<br>447 |
| 9.010 | 266 | 0.95 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 54<br>3.7<br>379<br>378 | 33<br>5.5<br>450<br>433 | 103<br>2.5<br>182<br>181 | 57<br>4.1<br>222<br>222 | 93<br>2.1<br>384<br>366 | 46<br>4.0<br>455<br>399 |
| 9.946 | 275 | 0.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 59<br>3.4<br>343<br>343 | 37<br>5.1<br>407<br>388 | 114<br>2.3<br>164<br>164 | 63<br>3.9<br>201<br>201 | 103<br>2.0<br>347<br>329 | 51<br>3.8<br>412<br>361 |
| 11.360 | 278 | 1.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 68<br>3.1<br>300<br>283 | 42<br>4.5<br>357<br>305 | 131<br>2.1<br>144<br>144 | 72<br>3.4<br>176<br>176 | 118<br>1.8<br>304<br>243 | 58<br>3.4<br>361<br>288 |
| 12.800 | 285 | 1.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 77<br>2.8<br>266<br>246 | 48<br>4.1<br>316<br>266 | 148<br>1.9<br>128<br>128 | 81<br>3.1<br>156<br>156 | 133<br>1.6<br>270<br>204 | 66<br>3.0<br>320<br>251 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 345$ Nm

| GFL05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 14.538 | 301 | 0.75 | $M_2$ | | 87 | 55 | 168 | 93 | 152 | 75 |
| | | | c | | 2.6 | 3.8 | 1.7 | 2.9 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 235 | 279 | 113 | 138 | 238 | 282 |
| | | | $n_{2\,th}$ | | 235 | 253 | 112 | 138 | 195 | 239 |
| 15.904 | 310 | 0.60 | $M_2$ | | 96 | 60 | 184 | 102 | 166 | 82 |
| | | | c | | 2.4 | 3.6 | 1.6 | 2.7 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 214 | 255 | 103 | 126 | 217 | 258 |
| | | | $n_{2\,th}$ | | 214 | 237 | 103 | 126 | 181 | 225 |
| 17.920 | 312 | 0.61 | $M_2$ | | 108 | 68 | 208 | 115 | 187 | 93 |
| | | | c | | 2.2 | 3.2 | 1.5 | 2.4 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 190 | 226 | 91 | 112 | 193 | 229 |
| | | | $n_{2\,th}$ | | 190 | 206 | 91 | 112 | 154 | 195 |
| 20.286 | 333 | 0.43 | $M_2$ | | 123 | 77 | 235 | 130 | 212 | 105 |
| | | | c | | 2.0 | 3.0 | 1.4 | 2.3 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 168 | 200 | 81 | 99 | 170 | 202 |
| | | | $n_{2\,th}$ | | 168 | 200 | 81 | 99 | 155 | 177 |
| 22.857 | 313 | 0.43 | $M_2$ | 42 | 139 | 87 | 266 | 147 | | 119 |
| | | | c | 5.1 | 1.7 | 2.5 | 1.1 | 1.9 | | 1.9 |
| | | | $n_{2\,Eck}$ | 173 | 149 | 177 | 72 | 88 | | 179 |
| | | | $n_{2\,th}$ | 173 | 149 | 177 | 72 | 88 | | 157 |
| 24.850 | 344 | 0.35 | $M_2$ | 46 | 150 | 95 | 289 | 160 | 260 | 129 |
| | | | c | 5.9 | 2.0 | 2.9 | 1.2 | 2.1 | 1.1 | 2.2 |
| | | | $n_{2\,Eck}$ | 159 | 137 | 163 | 66 | 81 | 139 | 165 |
| | | | $n_{2\,th}$ | 159 | 137 | 163 | 66 | 80 | 139 | 144 |
| 28.000 | 314 | 0.33 | $M_2$ | 52 | 170 | 107 | | 181 | | 146 |
| | | | c | 4.8 | 1.6 | 2.4 | | 1.7 | | 1.7 |
| | | | $n_{2\,Eck}$ | 141 | 122 | 145 | | 71 | | 146 |
| | | | $n_{2\,th}$ | 141 | 122 | 145 | | 71 | | 128 |
| 32.344 | 345 | 0.20 | $M_2$ | 60 | 197 | 124 | | | | |
| | | | c | 4.5 | 1.5 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 122 | 105 | 125 | | | | |
| | | | $n_{2\,th}$ | 122 | 105 | 125 | | | | |
| 36.444 | 316 | 0.20 | $M_2$ | 69 | 222 | 140 | | | | |
| | | | c | 3.7 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 108 | 94 | 111 | | | | |
| | | | $n_{2\,th}$ | 108 | 94 | 111 | | | | |
| 40.233 | 345 | 0.15 | $M_2$ | 76 | 245 | 155 | | | | |
| | | | c | 3.6 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 98 | 85 | 101 | | | | |
| | | | $n_{2\,th}$ | 98 | 85 | 101 | | | | |
| 45.333 | 319 | 0.14 | $M_2$ | 86 | | 175 | | | | |
| | | | c | 3.0 | | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 87 | | 89 | | | | |
| | | | $n_{2\,th}$ | 87 | | 89 | | | | |
| 52.067 | 309 | 0.09 | $M_2$ | 99 | | | | | | |
| | | | c | 2.5 | | | | | | |
| | | | $n_{2\,Eck}$ | 76 | | | | | | |
| | | | $n_{2\,th}$ | 76 | | | | | | |
| 58.667 | 322 | 0.09 | $M_2$ | 112 | | | | | | |
| | | | c | 2.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 67 | | | | | | |
| | | | $n_{2\,th}$ | 67 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

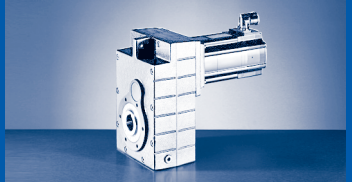
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 345$ Nm

| GFL05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 63.190 | 282 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 121<br>1.9<br>63<br>63 | | | | | | |
| 71.200 | 305 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 137<br>2.0<br>56<br>55 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 345$ Nm

| GFL05-3A | | | | 10IC40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | 2.4 |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 61.653 | 207 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 117<br>1.5<br>64<br>64 |
| 78.639 | 225 | 0.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 150<br>1.4<br>50<br>50 |
| 90.123 | 303 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 171<br>1.6<br>44<br>44 |
| 101.547 | 328 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 193<br>1.5<br>39<br>39 |
| 114.952 | 329 | 0.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 219<br>1.4<br>34<br>34 |
| 129.524 | 328 | 0.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 247<br>1.2<br>31<br>31 |
| 140.817 | 345 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 269<br>1.2<br>28<br>28 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

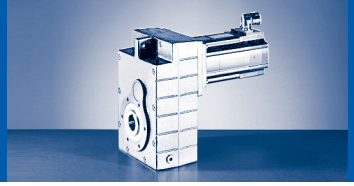
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 660$ Nm

| GFL06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 3.675 | 266 | 7.76 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 37<br>5.2<br>940<br>702 | | | | | |
| 3.675 | 311 | 7.76 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 74<br>3.9<br>457<br>457 | | 66<br>3.5<br>947<br>645 | |
| 5.211 | 377 | 6.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 52<br>5.2<br>663<br>495 | | | | | |
| 5.211 | 424 | 6.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 106<br>3.8<br>322<br>322 | | 94<br>3.3<br>668<br>451 | |
| 5.750 | 416 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 58<br>5.2<br>601<br>448 | | | | | |
| 5.750 | 442 | 6.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 117<br>3.6<br>292<br>292 | | 104<br>3.2<br>605<br>403 | 50<br>6.0<br>715<br>460 |
| 6.450 | 263 | 3.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 38<br>5.1<br>529<br>529 | | | | | | | | | |
| 6.450 | 352 | 3.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 72<br>4.6<br>254<br>253 | | 66<br>3.9<br>536<br>507 | | 132<br>2.5<br>261<br>260 | 65<br>4.5<br>357<br>357 | 117<br>2.2<br>540<br>451 | 57<br>4.2<br>637<br>482 |
| 7.147 | 433 | 4.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 80<br>5.1<br>229<br>229 | | 72<br>4.4<br>483<br>404 | | 146<br>2.8<br>235<br>235 | 72<br>5.0<br>322<br>322 | 130<br>2.5<br>487<br>359 | 63<br>4.7<br>575<br>409 |
| 8.400 | 604 | 4.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 93<br>6.0<br>195<br>195 | | 84<br>5.2<br>411<br>307 | | 171<br>3.3<br>200<br>200 | 84<br>6.0<br>274<br>274 | 152<br>3.0<br>414<br>272 | 74<br>5.6<br>489<br>311 |
| 9.463 | 581 | 3.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 105<br>5.1<br>173<br>173 | | 96<br>4.4<br>365<br>264 | | 194<br>2.8<br>178<br>178 | 95<br>5.1<br>243<br>243 | 172<br>2.5<br>368<br>233 | 84<br>4.8<br>434<br>267 |
| 10.092 | 412 | 2.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 59<br>5.1<br>338<br>338 | | | | | | | | | |
| 10.092 | 459 | 2.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 114<br>3.8<br>162<br>162 | | 103<br>3.3<br>342<br>313 | | 208<br>2.1<br>167<br>166 | 103<br>3.8<br>228<br>228 | 184<br>1.9<br>345<br>271 | 91<br>3.5<br>407<br>308 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 660$ Nm

| GFL06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 11.520 | 632 | 1.73 | $M_2$ | | | | 129 | | 117 | | 237 | 116 | 210 | 103 |
| | | | c | | | | 4.6 | | 4.0 | | 2.5 | 4.5 | 2.3 | 4.3 |
| | | | $n_{2\,Eck}$ | | | | 142 | | 300 | | 146 | 200 | 302 | 357 |
| | | | $n_{2\,th}$ | | | | 142 | | 246 | | 146 | 200 | 217 | 249 |
| 12.978 | 592 | 2.61 | $M_2$ | | | | 147 | | 133 | | 268 | 132 | 237 | 116 |
| | | | c | | | | 3.8 | | 3.3 | | 2.1 | 3.8 | 1.9 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | 126 | | 266 | | 130 | 177 | 268 | 317 |
| | | | $n_{2\,th}$ | | | | 126 | | 210 | | 129 | 177 | 182 | 213 |
| 14.743 | 602 | 1.95 | $M_2$ | | 86 | | | | | | | | | |
| | | | c | | 5.1 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 231 | | | | | | | | | |
| | | | $n_{2\,th}$ | | 231 | | | | | | | | | |
| 14.743 | 641 | 1.95 | $M_2$ | | | | 167 | | 151 | 73 | 304 | 150 | 270 | 133 |
| | | | c | | | | 3.6 | | 3.1 | 5.9 | 2.0 | 3.6 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | 111 | | 234 | 278 | 114 | 156 | 236 | 279 |
| | | | $n_{2\,th}$ | | | | 111 | | 212 | 240 | 114 | 156 | 181 | 211 |
| 16.128 | 643 | 1.68 | $M_2$ | | 95 | | 183 | 100 | 166 | 81 | 334 | 165 | 295 | 145 |
| | | | c | | 5.0 | | 3.3 | 5.6 | 2.9 | 5.4 | 1.8 | 3.3 | 1.6 | 3.1 |
| | | | $n_{2\,Eck}$ | | 211 | | 101 | 124 | 214 | 254 | 104 | 143 | 216 | 255 |
| | | | $n_{2\,th}$ | | 211 | | 101 | 124 | 197 | 223 | 104 | 143 | 164 | 193 |
| 18.169 | 600 | 1.57 | $M_2$ | | 108 | | 208 | 114 | 188 | 92 | 377 | 187 | 334 | 165 |
| | | | c | | 4.1 | | 2.8 | 4.6 | 2.4 | 4.5 | 1.5 | 2.7 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | 188 | | 90 | 110 | 190 | 226 | 93 | 127 | 192 | 226 |
| | | | $n_{2\,th}$ | | 188 | | 90 | 110 | 168 | 191 | 92 | 127 | 132 | 171 |
| 20.571 | 645 | 1.19 | $M_2$ | | 122 | 76 | 236 | 129 | 213 | 104 | 427 | 212 | 378 | 187 |
| | | | c | | 3.9 | 5.8 | 2.6 | 4.4 | 2.3 | 4.3 | 1.5 | 2.6 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 166 | 197 | 80 | 97 | 168 | 199 | 82 | 112 | 169 | 200 |
| | | | $n_{2\,th}$ | | 166 | 193 | 79 | 97 | 164 | 175 | 82 | 112 | 130 | 151 |
| 23.175 | 604 | 1.13 | $M_2$ | | 138 | 86 | 267 | 147 | 241 | 118 | 482 | 240 | 427 | 211 |
| | | | c | | 3.2 | 4.8 | 2.2 | 3.6 | 1.9 | 3.6 | 1.2 | 2.2 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | 147 | 175 | 71 | 86 | 149 | 177 | 73 | 99 | 150 | 177 |
| | | | $n_{2\,th}$ | | 147 | 166 | 71 | 86 | 138 | 155 | 72 | 99 | 107 | 134 |
| 25.200 | 651 | 0.90 | $M_2$ | | 150 | 93 | 290 | 159 | 261 | 128 | 524 | 260 | 464 | 229 |
| | | | c | | 3.7 | 5.4 | 2.2 | 4.0 | 2.1 | 4.0 | 1.2 | 2.4 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 135 | 161 | 65 | 79 | 137 | 163 | 67 | 91 | 138 | 163 |
| | | | $n_{2\,th}$ | | 135 | 161 | 65 | 79 | 137 | 142 | 67 | 91 | 119 | 123 |
| 28.389 | 607 | 0.86 | $M_2$ | | 170 | 106 | 328 | 180 | 295 | 145 | 592 | 294 | | 259 |
| | | | c | | 3.0 | 4.5 | 1.8 | 3.3 | 1.8 | 3.3 | 1.0 | 2.0 | | 1.9 |
| | | | $n_{2\,Eck}$ | | 120 | 143 | 58 | 71 | 122 | 144 | 59 | 81 | | 145 |
| | | | $n_{2\,th}$ | | 120 | 143 | 58 | 70 | 122 | 126 | 59 | 81 | | 110 |
| 32.800 | 641 | 0.58 | $M_2$ | | 197 | 123 | 379 | 209 | 342 | 168 | | | | |
| | | | c | | 2.8 | 4.1 | 1.7 | 3.0 | 1.6 | 3.0 | | | | |
| | | | $n_{2\,Eck}$ | | 104 | 124 | 50 | 61 | 105 | 125 | | | | |
| | | | $n_{2\,th}$ | | 104 | 123 | 50 | 61 | 105 | 109 | | | | |
| 36.951 | 611 | 0.56 | $M_2$ | | 223 | 140 | 428 | 236 | 386 | 190 | | | | |
| | | | c | | 2.3 | 3.5 | 1.4 | 2.5 | 1.4 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | | 92 | 110 | 44 | 54 | 94 | 111 | | | | |
| | | | $n_{2\,th}$ | | 92 | 110 | 44 | 54 | 94 | 97 | | | | |
| 40.800 | 657 | 0.43 | $M_2$ | | 246 | 154 | 473 | 261 | 426 | 210 | | | | |
| | | | c | | 2.3 | 3.4 | 1.4 | 2.5 | 1.3 | 2.5 | | | | |
| | | | $n_{2\,Eck}$ | | 84 | 99 | 40 | 49 | 85 | 101 | | | | |
| | | | $n_{2\,th}$ | | 84 | 99 | 40 | 49 | 85 | 88 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

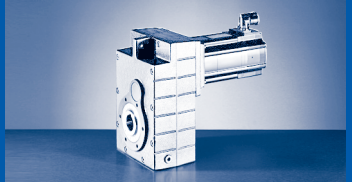
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 660$ Nm

| GFL06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 45.963 | 613 | 0.41 | $M_2$ | 85 | 278 | 175 | 534 | 296 | 481 | 238 | | | | |
| | | | c | 5.7 | 1.9 | 2.8 | 1.2 | 2.1 | 1.1 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 86 | 74 | 88 | 36 | 44 | 75 | 89 | | | | |
| | | | $n_{2\,th}$ | 86 | 74 | 88 | 36 | 44 | 75 | 78 | | | | |
| 52.800 | 660 | 0.26 | $M_2$ | 98 | 320 | 201 | | | | | | | | |
| | | | c | 5.3 | 1.8 | 2.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 75 | 65 | 77 | | | | | | | | |
| | | | $n_{2\,th}$ | 75 | 65 | 77 | | | | | | | | |
| 59.481 | 615 | 0.25 | $M_2$ | 111 | 362 | 228 | | | | | | | | |
| | | | c | 4.4 | 1.5 | 2.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 66 | 57 | 68 | | | | | | | | |
| | | | $n_{2\,th}$ | 66 | 57 | 68 | | | | | | | | |
| 64.080 | 576 | 0.19 | $M_2$ | 121 | 391 | 246 | | | | | | | | |
| | | | c | 3.8 | 1.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 62 | 53 | 63 | | | | | | | | |
| | | | $n_{2\,th}$ | 62 | 53 | 63 | | | | | | | | |
| 72.189 | 616 | 0.19 | $M_2$ | 136 | 440 | 277 | | | | | | | | |
| | | | c | 4.0 | 1.3 | 2.0 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 55 | 47 | 56 | | | | | | | | |
| | | | $n_{2\,th}$ | 55 | 47 | 56 | | | | | | | | |
| 81.000 | 435 | 0.13 | $M_2$ | 155 | | | | | | | | | | |
| | | | c | 2.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 49 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 49 | | | | | | | | | | |
| 91.250 | 476 | 0.12 | $M_2$ | 174 | | | | | | | | | | |
| | | | c | 2.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 43 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 43 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 634$ Nm

| GFL06-3A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 66.213 | 497 | 0.29 | $M_2$ | 123 | 398 | 251 |
| | | | c | 3.6 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 60 | 52 | 61 |
| | | | $n_{2\,th}$ | 60 | 52 | 61 |
| 72.000 | 497 | 0.26 | $M_2$ | 134 | 433 | 273 |
| | | | c | 3.3 | 1.1 | 1.6 |
| | | | $n_{2\,Eck}$ | 55 | 47 | 56 |
| | | | $n_{2\,th}$ | 55 | 47 | 56 |
| 81.111 | 497 | 0.26 | $M_2$ | 152 | | 309 |
| | | | c | 2.9 | | 1.5 |
| | | | $n_{2\,Eck}$ | 49 | | 50 |
| | | | $n_{2\,th}$ | 49 | | 50 |
| 88.200 | 488 | 0.19 | $M_2$ | 166 | | 336 |
| | | | c | 2.6 | | 1.3 |
| | | | $n_{2\,Eck}$ | 45 | | 46 |
| | | | $n_{2\,th}$ | 45 | | 46 |
| 99.361 | 550 | 0.19 | $M_2$ | 187 | | 379 |
| | | | c | 2.6 | | 1.3 |
| | | | $n_{2\,Eck}$ | 40 | | 41 |
| | | | $n_{2\,th}$ | 40 | | 41 |
| 116.571 | 528 | 0.09 | $M_2$ | 220 | | |
| | | | c | 2.2 | | |
| | | | $n_{2\,Eck}$ | 34 | | |
| | | | $n_{2\,th}$ | 34 | | |
| 131.323 | 595 | 0.21 | $M_2$ | 248 | | 502 |
| | | | c | 2.2 | | 1.1 |
| | | | $n_{2\,Eck}$ | 30 | | 31 |
| | | | $n_{2\,th}$ | 30 | | 31 |
| 144.320 | 560 | 0.11 | $M_2$ | 273 | | |
| | | | c | 1.9 | | |
| | | | $n_{2\,Eck}$ | 27 | | |
| | | | $n_{2\,th}$ | 27 | | |
| 162.583 | 613 | 0.11 | $M_2$ | 308 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 24 | | |
| | | | $n_{2\,th}$ | 24 | | |
| 179.520 | 605 | 0.10 | $M_2$ | 341 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 22 | | |
| | | | $n_{2\,th}$ | 22 | | |
| 202.237 | 611 | 0.10 | $M_2$ | 385 | | |
| | | | c | 1.4 | | |
| | | | $n_{2\,Eck}$ | 20 | | |
| | | | $n_{2\,th}$ | 20 | | |
| 231.200 | 634 | 0.07 | $M_2$ | 440 | | |
| | | | c | 1.3 | | |
| | | | $n_{2\,Eck}$ | 17 | | |
| | | | $n_{2\,th}$ | 17 | | |
| 260.457 | 613 | 0.07 | $M_2$ | 497 | | |
| | | | c | 1.1 | | |
| | | | $n_{2\,Eck}$ | 15 | | |
| | | | $n_{2\,th}$ | 15 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

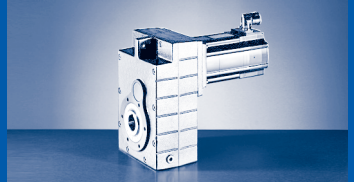
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 3.350 | 349 | 19.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 67<br>4.8<br>502<br>502 |
| 3.350 | 639 | 19.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 4.643 | 483 | 11.99 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 93<br>4.8<br>362<br>362 |
| 4.643 | 653 | 11.99 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.159 | 537 | 11.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 103<br>4.8<br>326<br>326 |
| 5.159 | 850 | 11.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 5.695 | 592 | 18.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 114<br>4.8<br>295<br>295 |
| 5.695 | 914 | 18.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.400 | 463 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 64<br>5.2<br>540<br>466 | | |
| 6.400 | 541 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 130<br>3.9<br>263<br>263 |
| 6.400 | 662 | 9.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 7.150 | 744 | 11.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 143<br>4.8<br>235<br>235 |
| 7.150 | 918 | 11.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 60 | | | | | | | | | $M_2$ | 19.57 | 349 | 3.350 |
| 4.3 | | | | | | | | | c | | | |
| 1039 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 631 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 113 | 113 | | 195 | | 176 | | $M_2$ | 19.57 | 639 | 3.350 |
| | | 5.2 | 4.1 | | 3.1 | | 2.7 | | c | | | |
| | | 508 | 1048 | | 511 | | 1051 | | $n_{2\,Eck}$ | | | |
| | | 508 | 626 | | 510 | | 567 | | $n_{2\,th}$ | | | |
| 83 | | | | | | | | | $M_2$ | 11.99 | 483 | 4.643 |
| 4.3 | | | | | | | | | c | | | |
| 750 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 524 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 159 | 159 | | 273 | 106 | 245 | | $M_2$ | 11.99 | 653 | 4.643 |
| | | 3.8 | 3.0 | | 2.3 | 5.0 | 2.0 | | c | | | |
| | | 366 | 756 | | 368 | 536 | 758 | | $n_{2\,Eck}$ | | | |
| | | 366 | 487 | | 368 | 434 | 434 | | $n_{2\,th}$ | | | |
| 92 | | | | | | | | | $M_2$ | 11.12 | 537 | 5.159 |
| 4.3 | | | | | | | | | c | | | |
| 675 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 410 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 175 | 175 | | 302 | 117 | 272 | | $M_2$ | 11.12 | 850 | 5.159 |
| | | 4.5 | 3.6 | | 2.7 | 5.8 | 2.3 | | c | | | |
| | | 330 | 680 | | 332 | 483 | 682 | | $n_{2\,Eck}$ | | | |
| | | 330 | 393 | | 331 | 390 | 354 | | $n_{2\,th}$ | | | |
| 101 | | | | | | | | | $M_2$ | 18.09 | 592 | 5.695 |
| 4.3 | | | | | | | | | c | | | |
| 611 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 371 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 194 | 194 | | 334 | 129 | 300 | | $M_2$ | 18.09 | 914 | 5.695 |
| | | 4.4 | 3.5 | | 2.6 | 5.7 | 2.3 | | c | | | |
| | | 299 | 616 | | 300 | 437 | 618 | | $n_{2\,Eck}$ | | | |
| | | 299 | 354 | | 300 | 354 | 319 | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 9.83 | 463 | 6.400 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 115 | | | | | | | | | $M_2$ | 9.83 | 541 | 6.400 |
| 3.5 | | | | | | | | | c | | | |
| 544 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 429 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 221 | 221 | | 379 | 149 | 340 | 102 | $M_2$ | 9.83 | 662 | 6.400 |
| | | 2.8 | 2.2 | | 1.7 | 3.7 | 1.5 | 4.5 | c | | | |
| | | 266 | 548 | | 267 | 389 | 550 | 650 | $n_{2\,Eck}$ | | | |
| | | 266 | 383 | | 267 | 315 | 315 | 315 | $n_{2\,th}$ | | | |
| 127 | | | | | | | | | $M_2$ | 11.88 | 744 | 7.150 |
| 4.3 | | | | | | | | | c | | | |
| 487 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 341 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 245 | 245 | | 421 | 164 | 378 | 112 | $M_2$ | 11.88 | 918 | 7.150 |
| | | 3.5 | 2.8 | | 2.1 | 4.6 | 1.8 | 5.5 | c | | | |
| | | 238 | 491 | | 239 | 348 | 492 | 582 | $n_{2\,Eck}$ | | | |
| | | 238 | 310 | | 239 | 282 | 271 | 282 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

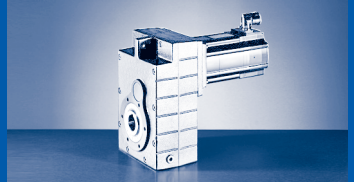
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 8.324 | 866 | 13.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 167<br>4.8<br>202<br>202 |
| 8.324 | 993 | 13.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.379 | 976 | 12.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 188<br>4.8<br>179<br>179 |
| 9.379 | 999 | 12.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.714 | 757 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 97<br>5.6<br>356<br>300 | | |
| 9.714 | 885 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 196<br>4.2<br>173<br>173 |
| 9.714 | 969 | 8.03 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 11.538 | 1080 | 8.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 232<br>4.3<br>146<br>146 |
| 13.000 | 1089 | 7.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 263<br>3.9<br>129<br>129 |
| 14.200 | 1106 | 6.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 142<br>5.6<br>243<br>205 | | |
| 14.200 | 1143 | 6.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 288<br>3.7<br>118<br>118 |
| 15.904 | 1150 | 5.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 159<br>5.2<br>217<br>187 | | |
| 15.904 | 1179 | 5.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 323<br>3.4<br>106<br>106 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 148 | | | | | | | | | $M_2$ | 13.11 | 866 | 8.324 |
| 4.3 | | | | | | | | | c | | | |
| 418 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 254 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 286 | 286 | | 491 | 192 | 441 | 131 | $M_2$ | 13.11 | 993 | 8.324 |
| | | 3.3 | 2.6 | | 1.9 | 4.2 | 1.7 | 5.2 | c | | | |
| | | 204 | 422 | | 205 | 299 | 423 | 500 | $n_{2\,Eck}$ | | | |
| | | 204 | 225 | | 205 | 242 | 191 | 242 | $n_{2\,th}$ | | | |
| 167 | | | | | | | | | $M_2$ | 12.04 | 976 | 9.379 |
| 4.3 | | | | | | | | | c | | | |
| 371 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 225 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 324 | 323 | | 555 | 217 | 498 | 149 | $M_2$ | 12.04 | 999 | 9.379 |
| | | 2.9 | 2.3 | | 1.7 | 3.8 | 1.5 | 4.6 | c | | | |
| | | 181 | 374 | | 182 | 266 | 375 | 444 | $n_{2\,Eck}$ | | | |
| | | 181 | 194 | | 171 | 215 | 159 | 215 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 8.03 | 757 | 9.714 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 174 | | | | | | | | | $M_2$ | 8.03 | 885 | 9.714 |
| 3.7 | | | | | | | | | c | | | |
| 358 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 276 | | | | | | | | | $n_{2\,th}$ | | | |
| | | 336 | 335 | | 575 | 226 | 516 | 155 | $M_2$ | 8.03 | 969 | 9.714 |
| | | 2.7 | 2.2 | | 1.6 | 3.5 | 1.4 | 4.3 | c | | | |
| | | 175 | 361 | | 176 | 256 | 362 | 428 | $n_{2\,Eck}$ | | | |
| | | 175 | 243 | | 176 | 207 | 195 | 207 | $n_{2\,th}$ | | | |
| 206 | | 400 | 399 | 128 | 684 | 269 | 614 | 184 | $M_2$ | 8.52 | 1080 | 11.538 |
| 3.8 | | 2.6 | 2.0 | 5.7 | 1.5 | 3.3 | 1.3 | 4.0 | c | | | |
| 302 | | 147 | 304 | 360 | 148 | 216 | 305 | 361 | $n_{2\,Eck}$ | | | |
| 206 | | 147 | 178 | 212 | 148 | 175 | 141 | 175 | $n_{2\,th}$ | | | |
| 234 | | 452 | 450 | 145 | 772 | 304 | 692 | 209 | $M_2$ | 7.97 | 1089 | 13.000 |
| 3.4 | | 2.3 | 1.8 | 5.1 | 1.4 | 3.0 | 1.2 | 3.6 | c | | | |
| 268 | | 131 | 270 | 319 | 132 | 192 | 271 | 320 | $n_{2\,Eck}$ | | | |
| 179 | | 131 | 149 | 188 | 126 | 155 | 118 | 155 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 6.35 | 1106 | 14.200 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 256 | | 494 | 492 | 159 | 843 | 332 | 757 | 228 | $M_2$ | 6.35 | 1143 | 14.200 |
| 3.3 | | 2.2 | 1.7 | 4.9 | 1.3 | 2.9 | 1.1 | 3.5 | c | | | |
| 245 | | 120 | 247 | 292 | 120 | 175 | 248 | 293 | $n_{2\,Eck}$ | | | |
| 184 | | 120 | 151 | 172 | 120 | 142 | 120 | 142 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 5.27 | 1150 | 15.904 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 287 | 139 | 554 | 552 | 178 | 946 | 373 | 848 | 256 | $M_2$ | 5.27 | 1179 | 15.904 |
| 3.0 | 5.8 | 2.0 | 1.6 | 4.5 | 1.2 | 2.6 | 1.1 | 3.2 | c | | | |
| 219 | 258 | 107 | 221 | 261 | 108 | 157 | 221 | 262 | $n_{2\,Eck}$ | | | |
| 168 | 191 | 107 | 135 | 154 | 108 | 127 | 110 | 127 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

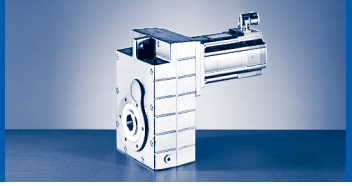
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 17.920 | 1189 | 4.98 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 199<br>5.5<br>91<br>91 | | 180<br>4.8<br>193<br>164 | | 366<br>3.1<br>94<br>94 |
| 20.286 | 828 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 119<br>5.1<br>168<br>168 | | | | | | |
| 20.286 | 1233 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 226<br>5.1<br>81<br>81 | | 205<br>4.4<br>170<br>166 | | |
| 20.286 | 1262 | 3.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 415<br>2.9<br>83<br>83 |
| 22.857 | 933 | 3.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 134<br>5.1<br>149<br>149 | | | | | | |
| 22.857 | 1240 | 3.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 256<br>4.5<br>72<br>72 | | 232<br>3.9<br>151<br>144 | | 469<br>2.5<br>74<br>74 |
| 24.850 | 1295 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 279<br>4.5<br>66<br>66 | | 252<br>4.3<br>139<br>139 | | |
| 24.850 | 1337 | 2.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 510<br>2.6<br>68<br>68 |
| 28.000 | 1242 | 2.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 317<br>3.8<br>58<br>58 | | 285<br>3.6<br>123<br>123 | | 577<br>2.1<br>60<br>60 |
| 32.344 | 1048 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 190<br>4.6<br>105<br>105 | | | | | | |
| 32.344 | 1358 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 366<br>3.6<br>51<br>51 | | 330<br>3.5<br>107<br>107 | | |
| 32.344 | 1370 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 668<br>2.0<br>52<br>52 |
| 36.444 | 1181 | 1.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 215<br>4.6<br>94<br>94 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 324 | 158 | 626 | 623 | 202 | 1067 | 422 | | 290 | $M_2$ | 4.98 | 1189 | 17.920 |
| 2.7 | 5.2 | 1.8 | 1.4 | 4.1 | 1.1 | 2.4 | | 2.9 | c | | | |
| 194 | 229 | 95 | 196 | 232 | 95 | 139 | | 232 | $n_{2\,Eck}$ | | | |
| 146 | 166 | 95 | 113 | 137 | 95 | 112 | | 112 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 3.47 | 828 | 20.286 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 3.47 | 1233 | 20.286 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 368 | 180 | 709 | 706 | 229 | | | | | $M_2$ | 3.47 | 1262 | 20.286 |
| 2.6 | 4.8 | 1.7 | 1.3 | 3.8 | | | | | c | | | |
| 172 | 203 | 84 | 173 | 205 | | | | | $n_{2\,Eck}$ | | | |
| 149 | 153 | 84 | 113 | 121 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 3.27 | 933 | 22.857 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 416 | 204 | 801 | 797 | 260 | | | | | $M_2$ | 3.27 | 1240 | 22.857 |
| 2.2 | 4.2 | 1.5 | 1.2 | 3.3 | | | | | c | | | |
| 152 | 180 | 74 | 154 | 182 | | | | | $n_{2\,Eck}$ | | | |
| 128 | 136 | 74 | 94 | 107 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 2.65 | 1295 | 24.850 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 451 | 220 | 870 | 865 | 281 | | | | | $M_2$ | 2.65 | 1337 | 24.850 |
| 2.5 | 4.7 | 1.5 | 1.3 | 3.7 | | | | | c | | | |
| 140 | 165 | 68 | 141 | 167 | | | | | $n_{2\,Eck}$ | | | |
| 125 | 125 | 68 | 99 | 99 | | | | | $n_{2\,th}$ | | | |
| 510 | 250 | 983 | 977 | 319 | | | | | $M_2$ | 2.53 | 1242 | 28.000 |
| 2.1 | 3.9 | 1.3 | 1.1 | 3.1 | | | | | c | | | |
| 124 | 147 | 61 | 125 | 148 | | | | | $n_{2\,Eck}$ | | | |
| 111 | 111 | 61 | 84 | 87 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 1.69 | 1048 | 32.344 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 1.69 | 1358 | 32.344 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 590 | 290 | | | | | | | | $M_2$ | 1.69 | 1370 | 32.344 |
| 2.0 | 3.7 | | | | | | | | c | | | |
| 108 | 127 | | | | | | | | $n_{2\,Eck}$ | | | |
| 96 | 96 | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | 1.61 | 1181 | 36.444 |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

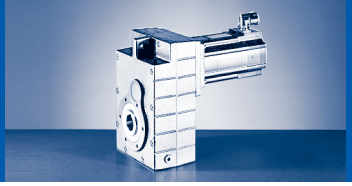
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 36.444 | 1248 | 1.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 416<br>2.9<br>45<br>45 | 226<br>5.3<br>55<br>55 | 375<br>2.8<br>95<br>95 | 182<br>5.3<br>113<br>99 | 755<br>1.6<br>46<br>46 |
| 39.642 | 1093 | 1.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 235<br>3.9<br>86<br>86 | 146<br>5.8<br>102<br>102 | | | | | |
| 39.642 | 1378 | 1.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 452<br>3.0<br>41<br>41 | 246<br>5.4<br>51<br>50 | 407<br>2.9<br>87<br>87 | 198<br>5.4<br>103<br>91 | 821<br>1.7<br>42<br>42 |
| 44.667 | 1231 | 1.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 265<br>3.9<br>76<br>76 | 165<br>5.8<br>91<br>91 | | | | | |
| 44.667 | 1258 | 1.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 512<br>2.4<br>37<br>37 | 280<br>4.3<br>45<br>45 | 462<br>2.3<br>77<br>77 | 226<br>4.4<br>92<br>80 | 928<br>1.4<br>38<br>38 |
| 52.067 | 1127 | 0.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 311<br>3.1<br>66<br>65 | 195<br>4.6<br>78<br>78 | | | | | |
| 52.067 | 1342 | 0.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 599<br>2.2<br>31<br>31 | 328<br>4.0<br>38<br>38 | 539<br>2.1<br>66<br>66 | 264<br>4.0<br>79<br>69 | |
| 58.667 | 1270 | 0.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 351<br>3.1<br>58<br>58 | 219<br>4.6<br>69<br>69 | 677<br>1.9<br>28<br>28 | 372<br>3.3<br>34<br>34 | 610<br>1.8<br>59<br>59 | 300<br>3.4<br>70<br>61 | |
| 63.190 | 792 | 0.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 117<br>5.3<br>63<br>63 | | | | | | | |
| 63.190 | 1145 | 0.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 380<br>2.6<br>54<br>54 | 238<br>3.8<br>64<br>64 | | | | | |
| 63.190 | 1240 | 0.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 731<br>1.7<br>26<br>26 | 402<br>3.0<br>32<br>32 | 658<br>1.6<br>55<br>55 | 324<br>3.1<br>65<br>57 | |
| 71.200 | 893 | 0.56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 131<br>5.9<br>56<br>55 | | | | | | | |
| 71.200 | 1280 | 0.56 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 427<br>2.8<br>48<br>48 | 267<br>4.2<br>57<br>57 | 824<br>1.5<br>23<br>23 | 454<br>2.8<br>28<br>28 | 741<br>1.6<br>49<br>49 | 365<br>3.1<br>58<br>50 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 668<br>1.6<br>96<br>85 | 329<br>3.0<br>113<br>85 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.61 | 1248 | 36.444 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 1093 | 39.642 |
| 726<br>1.6<br>88<br>78 | 358<br>3.1<br>104<br>78 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 1378 | 39.642 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.20 | 1231 | 44.667 |
| 821<br>1.3<br>78<br>70 | 405<br>2.5<br>92<br>70 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.20 | 1258 | 44.667 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.78 | 1127 | 52.067 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.78 | 1342 | 52.067 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.75 | 1270 | 58.667 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.57 | 792 | 63.190 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.57 | 1145 | 63.190 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.57 | 1240 | 63.190 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.56 | 893 | 71.200 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.56 | 1280 | 71.200 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

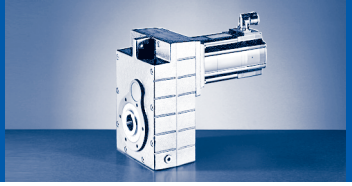
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 79.875 | 796 | 0.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 149<br>4.7<br>50<br>49 | | | | | | | |
| 79.875 | 854 | 0.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 485<br>1.7<br>43<br>43 | 305<br>2.5<br>51<br>51 | | | | | |
| 90.000 | 897 | 0.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 168<br>4.7<br>44<br>44 | | | | | | | |
| 90.000 | 930 | 0.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 547<br>1.6<br>38<br>38 | 344<br>2.4<br>45<br>45 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.37 | 796 | 79.875 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.37 | 854 | 79.875 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.36 | 897 | 90.000 |
| | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.36 | 930 | 90.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

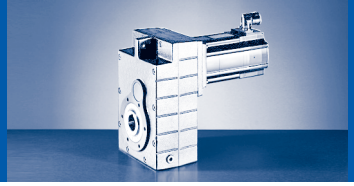
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1378$ Nm

| GFL07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 65.306 | 883 | 0.79 | $M_2$ | | 388 | 244 | 748 | 413 | 672 | 332 |
| | | | c | | 2.2 | 3.2 | 1.2 | 2.1 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 52 | 62 | 25 | 31 | 53 | 63 |
| | | | $n_{2\,th}$ | | 52 | 62 | 25 | 31 | 53 | 55 |
| 72.452 | 869 | 0.89 | $M_2$ | 132 | 432 | 272 | 830 | 460 | 747 | 370 |
| | | | c | 5.7 | 1.9 | 2.8 | 1.1 | 1.9 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | 55 | 47 | 56 | 23 | 28 | 48 | 57 |
| | | | $n_{2\,th}$ | 55 | 47 | 56 | 23 | 28 | 47 | 50 |
| 81.636 | 979 | 0.88 | $M_2$ | 148 | 487 | 306 | 936 | 518 | 842 | 416 |
| | | | c | 5.7 | 1.9 | 2.8 | 1.1 | 1.9 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | 48 | 42 | 50 | 20 | 25 | 42 | 50 |
| | | | $n_{2\,th}$ | 48 | 42 | 50 | 20 | 25 | 42 | 44 |
| 92.413 | 961 | 0.61 | $M_2$ | 169 | 553 | 348 | | 588 | | 473 |
| | | | c | 5.0 | 1.7 | 2.5 | | 1.6 | | 1.8 |
| | | | $n_{2\,Eck}$ | 43 | 37 | 44 | | 22 | | 44 |
| | | | $n_{2\,th}$ | 43 | 37 | 44 | | 22 | | 39 |
| 104.127 | 1082 | 0.60 | $M_2$ | 191 | 623 | 392 | | 662 | | 533 |
| | | | c | 5.0 | 1.7 | 2.5 | | 1.6 | | 1.8 |
| | | | $n_{2\,Eck}$ | 38 | 33 | 39 | | 19 | | 39 |
| | | | $n_{2\,th}$ | 38 | 33 | 39 | | 19 | | 34 |
| 113.206 | 1040 | 0.45 | $M_2$ | 209 | 678 | 427 | | 722 | | 581 |
| | | | c | 4.4 | 1.5 | 2.2 | | 1.4 | | 1.6 |
| | | | $n_{2\,Eck}$ | 35 | 30 | 36 | | 18 | | 36 |
| | | | $n_{2\,th}$ | 35 | 30 | 36 | | 18 | | 32 |
| 127.556 | 1171 | 0.44 | $M_2$ | 235 | 764 | 482 | | 813 | | 654 |
| | | | c | 4.4 | 1.5 | 2.2 | | 1.4 | | 1.6 |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | | 16 | | 32 |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | | 16 | | 28 |
| 147.347 | 1140 | 0.28 | $M_2$ | 274 | 885 | 558 | | | | |
| | | | c | 3.7 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 27 | 23 | 28 | | | | |
| | | | $n_{2\,th}$ | 27 | 23 | 27 | | | | |
| 166.025 | 1248 | 0.27 | $M_2$ | 309 | 998 | 629 | | | | |
| | | | c | 3.6 | 1.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 24 | 21 | 24 | | | | |
| | | | $n_{2\,th}$ | 24 | 21 | 24 | | | | |
| 183.285 | 1236 | 0.19 | $M_2$ | 342 | 1103 | 696 | | | | |
| | | | c | 3.2 | 1.1 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 22 | 19 | 22 | | | | |
| | | | $n_{2\,th}$ | 22 | 19 | 22 | | | | |
| 206.519 | 1248 | 0.19 | $M_2$ | 387 | | 786 | | | | |
| | | | c | 2.9 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 19 | | 20 | | | | |
| | | | $n_{2\,th}$ | 19 | | 20 | | | | |
| 224.636 | 1343 | 0.18 | $M_2$ | 421 | | 855 | | | | |
| | | | c | 2.9 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 18 | | 18 | | | | |
| | | | $n_{2\,th}$ | 18 | | 18 | | | | |
| 253.111 | 1258 | 0.18 | $M_2$ | 477 | | 966 | | | | |
| | | | c | 2.4 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 16 | | 16 | | | | |
| | | | $n_{2\,th}$ | 16 | | 16 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1378$ Nm

| GFL07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 290.706 | 1378 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 548<br>2.3<br>14<br>14 | | | | | | |
| 327.556 | 1258 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 621<br>1.8<br>12<br>12 | | | | | | |
| 352.811 | 1378 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 668<br>1.9<br>11<br>11 | | | | | | |
| 397.533 | 1258 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 756<br>1.5<br>10<br>10 | | | | | | |
| 430.222 | 1270 | 0.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 819<br>1.4<br>9<br>9 | | | | | | |
| 522.133 | 1270 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 996<br>1.2<br>8<br>8 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

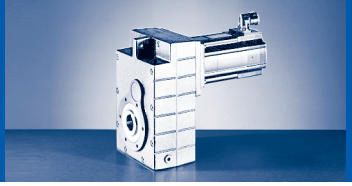
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3107$ Nm

| GFL09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 6.864 | 1662 | 41.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 6.864 | 2089 | 41.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 7.466 | 1807 | 38.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 7.466 | 2156 | 38.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.010 | 1037 | 26.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 180<br>5.3<br>187<br>186 | | 160<br>4.7<br>386<br>252 | |
| 9.010 | 2040 | 26.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.010 | 2230 | 26.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.799 | 1128 | 25.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 195<br>5.3<br>171<br>171 | | 174<br>4.7<br>355<br>232 | |
| 9.799 | 2219 | 25.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 9.799 | 2310 | 25.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 11.167 | 1156 | 19.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 224<br>4.8<br>151<br>150 | | 199<br>4.2<br>312<br>218 | |
| 11.167 | 2303 | 19.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 12.307 | 2223 | 27.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3107$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | 229<br>5.2<br>511<br>298 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 41.30 | 1662 | 6.864 |
| | | | | 393<br>4.9<br>249<br>249 | | 354<br>4.3<br>513<br>285 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 41.30 | 2089 | 6.864 |
| | | 249<br>5.2<br>470<br>274 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 38.70 | 1807 | 7.466 |
| | | | | 428<br>4.6<br>229<br>229 | | 386<br>4.1<br>472<br>259 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 38.70 | 2156 | 7.466 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 26.80 | 1037 | 9.010 |
| | | 302<br>4.9<br>390<br>254 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 26.80 | 2040 | 9.010 |
| | | | | 520<br>4.0<br>190<br>190 | | 468<br>3.5<br>391<br>223 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 26.80 | 2230 | 9.010 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.30 | 1128 | 9.799 |
| | | 329<br>4.9<br>358<br>233 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.30 | 2219 | 9.799 |
| | | | | 567<br>3.8<br>175<br>175 | | 510<br>3.3<br>359<br>205 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.30 | 2310 | 9.799 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.50 | 1156 | 11.167 |
| 375<br>5.6<br>152<br>152 | | 376<br>4.5<br>314<br>219 | | 649<br>3.3<br>153<br>153 | | 584<br>2.9<br>315<br>180 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.50 | 2303 | 11.167 |
| 416<br>4.9<br>138<br>138 | | 417<br>3.9<br>285<br>156 | | 719<br>2.9<br>139<br>139 | | 646<br>2.6<br>286<br>141 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.60 | 2223 | 12.307 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

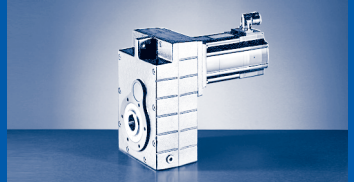
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3107$ Nm

| GFL09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 14.333 | 1650 | 20.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 286<br>5.3<br>117<br>117 | | 254<br>4.7<br>243<br>158 | |
| 14.333 | 2374 | 20.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 16.333 | 1692 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 327<br>4.8<br>103<br>103 | | 291<br>4.2<br>213<br>149 | |
| 16.333 | 2461 | 15.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 18.407 | 1906 | 14.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 369<br>4.8<br>91<br>91 | | 328<br>4.2<br>189<br>132 | |
| 18.407 | 2480 | 14.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 19.667 | 1524 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 196<br>5.6<br>176<br>148 | | | | | |
| 19.667 | 1784 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 397<br>4.2<br>85<br>85 | | 352<br>3.7<br>177<br>136 | |
| 19.667 | 2563 | 12.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 22.164 | 1717 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 221<br>5.6<br>156<br>131 | | | | | |
| 22.164 | 2010 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 447<br>4.2<br>76<br>76 | | 397<br>3.7<br>157<br>121 | |
| 22.164 | 2612 | 11.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 24.111 | 1876 | 9.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 489<br>3.7<br>70<br>70 | | 432<br>3.6<br>144<br>120 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3107$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 20.00 | 1650 | 14.333 |
| 487<br>4.5<br>119<br>119 | | 487<br>3.6<br>245<br>149 | | 839<br>2.7<br>119<br>119 | 325<br>5.9<br>174<br>140 | 754<br>2.3<br>246<br>135 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 20.00 | 2374 | 14.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.50 | 1692 | 16.333 |
| 557<br>4.1<br>104<br>104 | | 557<br>3.3<br>215<br>140 | | 959<br>2.4<br>105<br>105 | 372<br>5.3<br>153<br>123 | 861<br>2.1<br>216<br>123 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 15.50 | 2461 | 16.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.60 | 1906 | 18.407 |
| 630<br>3.7<br>92<br>92 | | 630<br>2.9<br>191<br>122 | | 1083<br>2.2<br>93<br>93 | 422<br>4.8<br>135<br>109 | 973<br>1.9<br>191<br>108 | 289<br>5.8<br>226<br>109 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 14.60 | 2480 | 18.407 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.10 | 1524 | 19.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.10 | 1784 | 19.667 |
| 674<br>3.6<br>86<br>86 | | 674<br>2.8<br>179<br>125 | | 1158<br>2.1<br>87<br>87 | 452<br>4.6<br>127<br>102 | 1040<br>1.8<br>179<br>102 | 309<br>5.6<br>212<br>102 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.10 | 2563 | 19.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 1717 | 22.164 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 2010 | 22.164 |
| 763<br>3.2<br>77<br>77 | | 762<br>2.5<br>158<br>110 | | 1308<br>1.9<br>77<br>77 | 512<br>4.2<br>112<br>91 | 1175<br>1.7<br>159<br>91 | 350<br>5.1<br>188<br>91 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 11.30 | 2612 | 22.164 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.04 | 1876 | 24.111 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

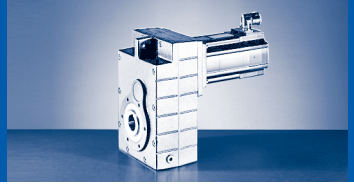
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3107$ Nm

| GFL09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 24.111 | 2722 | 9.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 27.173 | 2114 | 8.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 551<br>3.7<br>62<br>62 | | 487<br>3.6<br>128<br>106 | |
| 27.173 | 2767 | 8.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 32.667 | 1699 | 5.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 367<br>4.5<br>50<br>50 | | 331<br>4.3<br>106<br>106 | | | | | |
| 32.667 | 1990 | 5.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 668<br>2.9<br>51<br>51 | 326<br>5.7<br>70<br>70 | 591<br>2.8<br>107<br>95 | 288<br>5.4<br>126<br>95 |
| 32.667 | 2990 | 5.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 36.815 | 1915 | 5.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 413<br>4.5<br>44<br>44 | | 373<br>4.3<br>94<br>94 | | | | | |
| 36.815 | 2242 | 5.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 753<br>2.9<br>46<br>46 | 367<br>5.7<br>63<br>62 | 666<br>2.8<br>95<br>85 | 324<br>5.4<br>112<br>85 |
| 36.815 | 3018 | 5.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 39.667 | 1761 | 4.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 448<br>3.8<br>41<br>41 | | 404<br>3.7<br>87<br>87 | | | | | |
| 39.667 | 2061 | 4.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 815<br>2.5<br>42<br>42 | 399<br>4.9<br>58<br>58 | 721<br>2.4<br>88<br>78 | 352<br>4.6<br>104<br>78 |
| 39.667 | 3107 | 4.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 44.704 | 1985 | 3.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 505<br>3.8<br>37<br>37 | | 456<br>3.7<br>77<br>77 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3107$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 830<br>3.2<br>71<br>71 | | 827<br>2.8<br>146<br>102 | | 1423<br>1.9<br>71<br>71 | 554<br>4.5<br>103<br>84 | 1276<br>1.8<br>146<br>84 | 379<br>5.5<br>173<br>84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.04 | 2722 | 24.111 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.63 | 2114 | 27.173 |
| 938<br>2.9<br>63<br>63 | | 934<br>2.5<br>129<br>90 | | 1607<br>1.7<br>63<br>63 | 628<br>4.1<br>92<br>74 | 1441<br>1.6<br>130<br>74 | 430<br>5.0<br>153<br>74 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.63 | 2767 | 27.173 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.43 | 1699 | 32.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.43 | 1990 | 32.667 |
| 1132<br>2.6<br>52<br>52 | 492<br>5.7<br>72<br>72 | 1126<br>2.2<br>108<br>75 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.43 | 2990 | 32.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.21 | 1915 | 36.815 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.21 | 2242 | 36.815 |
| 1279<br>2.3<br>46<br>46 | 558<br>5.1<br>64<br>64 | 1273<br>2.0<br>95<br>67 | 408<br>5.7<br>113<br>67 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.21 | 3018 | 36.815 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.07 | 1761 | 39.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.07 | 2061 | 39.667 |
| 1379<br>2.2<br>43<br>43 | 602<br>4.9<br>59<br>59 | 1372<br>1.9<br>89<br>62 | 441<br>5.5<br>105<br>62 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.07 | 3107 | 39.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.92 | 1985 | 44.704 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

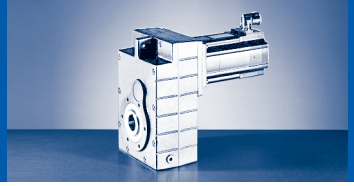
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3107$ Nm

| GFL09-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 44.704 | 2323 | 3.92 | $M_2$ | | | | | 918 | 450 | 812 | 397 |
| | | | c | | | | | 2.5 | 4.9 | 2.4 | 4.6 |
| | | | $n_{2\,Eck}$ | | | | | 38 | 52 | 78 | 92 |
| | | | $n_{2\,th}$ | | | | | 38 | 51 | 70 | 70 |
| 44.704 | 3027 | 3.92 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 51.333 | 1825 | 2.59 | $M_2$ | 585 | 318 | 527 | 256 | | | | |
| | | | c | 3.1 | 5.5 | 2.9 | 5.5 | | | | |
| | | | $n_{2\,Eck}$ | 32 | 39 | 67 | 80 | | | | |
| | | | $n_{2\,th}$ | 32 | 39 | 67 | 70 | | | | |
| 51.333 | 2136 | 2.59 | $M_2$ | | | | | 1060 | 522 | 937 | 460 |
| | | | c | | | | | 2.0 | 3.9 | 1.9 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | 33 | 45 | 68 | 80 |
| | | | $n_{2\,th}$ | | | | | 33 | 45 | 61 | 61 |
| 57.852 | 2057 | 2.50 | $M_2$ | 659 | 359 | 594 | 289 | | | | |
| | | | c | 3.1 | 5.5 | 2.9 | 5.5 | | | | |
| | | | $n_{2\,Eck}$ | 28 | 35 | 60 | 71 | | | | |
| | | | $n_{2\,th}$ | 28 | 35 | 60 | 62 | | | | |
| 57.852 | 2407 | 2.50 | $M_2$ | | | | | 1194 | 588 | 1056 | 519 |
| | | | c | | | | | 2.0 | 3.9 | 1.9 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | | 29 | 40 | 60 | 71 |
| | | | $n_{2\,th}$ | | | | | 29 | 40 | 54 | 54 |
| 62.300 | 1854 | 1.89 | $M_2$ | 714 | 390 | 643 | 314 | | | | |
| | | | c | 2.6 | 4.6 | 2.4 | 4.6 | | | | |
| | | | $n_{2\,Eck}$ | 26 | 32 | 56 | 66 | | | | |
| | | | $n_{2\,th}$ | 26 | 32 | 55 | 58 | | | | |
| 62.300 | 2170 | 1.89 | $M_2$ | | | | | 1291 | 637 | 1141 | 562 |
| | | | c | | | | | 1.7 | 3.3 | 1.6 | 3.1 |
| | | | $n_{2\,Eck}$ | | | | | 27 | 37 | 56 | 66 |
| | | | $n_{2\,th}$ | | | | | 27 | 37 | 50 | 50 |
| 70.211 | 2090 | 1.83 | $M_2$ | 804 | 440 | 723 | 352 | | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | 23 | 29 | 49 | 58 | | | | |
| | | | $n_{2\,th}$ | 23 | 28 | 49 | 51 | | | | |
| 70.211 | 2445 | 1.83 | $M_2$ | | | | | 1454 | 718 | 1284 | 631 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 24 | 33 | 50 | 59 |
| | | | $n_{2\,th}$ | | | | | 24 | 33 | 44 | 44 |
| 78.750 | 1631 | 1.25 | $M_2$ | 910 | 500 | 818 | 402 | | | | |
| | | | c | 1.8 | 3.2 | 1.9 | 3.6 | | | | |
| | | | $n_{2\,Eck}$ | 21 | 25 | 44 | 52 | | | | |
| | | | $n_{2\,th}$ | 21 | 25 | 44 | 46 | | | | |
| 88.750 | 1781 | 1.21 | $M_2$ | 1026 | 565 | 922 | 453 | | | | |
| | | | c | 1.7 | 3.1 | 1.8 | 3.5 | | | | |
| | | | $n_{2\,Eck}$ | 18 | 23 | 39 | 46 | | | | |
| | | | $n_{2\,th}$ | 18 | 23 | 39 | 40 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3107$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL09-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.92 | 2323 | 44.704 |
| 1559<br>1.9<br>38<br>38 | 684<br>4.2<br>52<br>52 | 1551<br>1.7<br>79<br>55 | 501<br>4.7<br>93<br>55 | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 3.92 | 3027 | 44.704 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.59 | 1825 | 51.333 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.59 | 2136 | 51.333 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.50 | 2057 | 57.852 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.50 | 2407 | 57.852 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.89 | 1854 | 62.300 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.89 | 2170 | 62.300 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.83 | 2090 | 70.211 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.83 | 2445 | 70.211 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.25 | 1631 | 78.750 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.21 | 1781 | 88.750 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

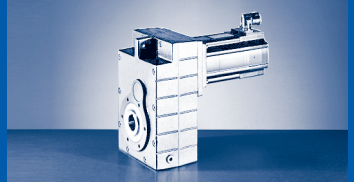
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3170$ Nm

| GFL09-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 63.326 | 1510 | 2.34 | $M_2$ | | 372 | 232 | 718 | 394 | 647 | 317 | 1299 | 645 | 1148 | 568 |
| | | | c | | 3.4 | 5.1 | 2.1 | 3.7 | 2.0 | 3.8 | 1.2 | 2.3 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 54 | 64 | 26 | 32 | 55 | 65 | 27 | 36 | 55 | 65 |
| | | | $n_{2\,th}$ | | 54 | 64 | 26 | 32 | 55 | 57 | 27 | 36 | 49 | 49 |
| 73.173 | 1517 | 2.47 | $M_2$ | | 430 | 268 | 832 | 458 | 748 | 367 | 1503 | 747 | 1327 | 657 |
| | | | c | | 3.3 | 4.9 | 1.8 | 3.2 | 1.9 | 3.6 | 1.0 | 2.0 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 47 | 55 | 22 | 27 | 47 | 56 | 23 | 31 | 48 | 56 |
| | | | $n_{2\,th}$ | | 47 | 55 | 22 | 27 | 47 | 49 | 23 | 31 | 38 | 43 |
| 82.465 | 1710 | 2.43 | $M_2$ | | 485 | 302 | 938 | 516 | 843 | 414 | 1694 | 842 | 1496 | 740 |
| | | | c | | 3.3 | 4.9 | 1.8 | 3.2 | 1.9 | 3.6 | 1.0 | 2.0 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 41 | 49 | 20 | 24 | 42 | 50 | 20 | 28 | 42 | 50 |
| | | | $n_{2\,th}$ | | 41 | 49 | 20 | 24 | 42 | 44 | 20 | 28 | 34 | 38 |
| 93.333 | 1692 | 1.68 | $M_2$ | | 551 | 344 | 1064 | 586 | 957 | 471 | | 956 | | 840 |
| | | | c | | 2.9 | 4.3 | 1.6 | 2.8 | 1.7 | 3.2 | | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 37 | 43 | 18 | 21 | 37 | 44 | | 25 | | 44 |
| | | | $n_{2\,th}$ | | 37 | 43 | 18 | 21 | 37 | 38 | | 25 | | 33 |
| 105.185 | 1907 | 1.65 | $M_2$ | | 621 | 388 | 1199 | 661 | 1078 | 531 | | 1077 | | 947 |
| | | | c | | 2.9 | 4.3 | 1.6 | 2.8 | 1.7 | 3.2 | | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 32 | 39 | 16 | 19 | 33 | 39 | | 22 | | 39 |
| | | | $n_{2\,th}$ | | 32 | 39 | 16 | 19 | 33 | 34 | | 22 | | 30 |
| 114.333 | 1847 | 1.23 | $M_2$ | | 677 | 424 | 1306 | 720 | 1174 | 579 | | 1173 | | 1031 |
| | | | c | | 2.6 | 3.8 | 1.4 | 2.5 | 1.5 | 2.8 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 30 | 35 | 14 | 18 | 30 | 36 | | 20 | | 36 |
| | | | $n_{2\,th}$ | | 30 | 35 | 14 | 17 | 30 | 31 | | 20 | | 27 |
| 128.852 | 2082 | 1.21 | $M_2$ | | 763 | 478 | 1471 | 812 | 1323 | 652 | | 1322 | | 1162 |
| | | | c | | 2.6 | 3.8 | 1.4 | 2.5 | 1.5 | 2.8 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 27 | 31 | 13 | 16 | 27 | 32 | | 18 | | 32 |
| | | | $n_{2\,th}$ | | 26 | 31 | 13 | 16 | 27 | 28 | | 18 | | 24 |
| 148.815 | 2053 | 0.77 | $M_2$ | | 885 | 555 | 1703 | 941 | 1532 | 757 | | | | |
| | | | c | | 2.2 | 3.3 | 1.2 | 2.2 | 1.3 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | | 23 | 27 | 11 | 13 | 23 | 28 | | | | |
| | | | $n_{2\,th}$ | | 23 | 27 | 11 | 13 | 23 | 24 | | | | |
| 167.712 | 2314 | 0.76 | $M_2$ | | 997 | 626 | 1919 | 1061 | 1726 | 853 | | | | |
| | | | c | | 2.2 | 3.3 | 1.2 | 2.2 | 1.3 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | | 20 | 24 | 10 | 12 | 21 | 25 | | | | |
| | | | $n_{2\,th}$ | | 20 | 24 | 10 | 12 | 21 | 21 | | | | |
| 185.111 | 2232 | 0.55 | $M_2$ | 336 | 1104 | 694 | 2122 | 1174 | 1908 | 944 | | | | |
| | | | c | 5.8 | 1.9 | 2.9 | 1.1 | 1.9 | 1.1 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 21 | 18 | 22 | 9 | 11 | 19 | 22 | | | | |
| | | | $n_{2\,th}$ | 21 | 18 | 22 | 9 | 11 | 19 | 19 | | | | |
| 208.617 | 2515 | 0.54 | $M_2$ | 379 | 1244 | 782 | 2391 | 1323 | 2151 | 1064 | | | | |
| | | | c | 5.8 | 1.9 | 2.9 | 1.1 | 1.9 | 1.1 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 19 | 16 | 19 | 8 | 10 | 17 | 20 | | | | |
| | | | $n_{2\,th}$ | 19 | 16 | 19 | 8 | 10 | 17 | 17 | | | | |
| 224.778 | 2407 | 0.51 | $M_2$ | 411 | 1343 | 845 | | 1429 | | 1149 | | | | |
| | | | c | 5.1 | 1.7 | 2.5 | | 1.7 | | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 18 | 15 | 18 | | 9 | | 18 | | | | |
| | | | $n_{2\,th}$ | 18 | 15 | 18 | | 9 | | 16 | | | | |
| 253.321 | 2712 | 0.50 | $M_2$ | 463 | 1514 | 953 | | 1611 | | 1295 | | | | |
| | | | c | 5.1 | 1.7 | 2.5 | | 1.7 | | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 16 | 14 | 16 | | 8 | | 16 | | | | |
| | | | $n_{2\,th}$ | 16 | 13 | 16 | | 8 | | 14 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3170$ Nm

| GFL09-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 290.889 | 2640 | 0.31 | $M_2$ | 537 | 1743 | 1099 | | | | | | | | |
| | | | c | 4.3 | 1.5 | 2.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 14 | 12 | 14 | | | | | | | | |
| | | | $n_{2\,th}$ | 14 | 12 | 14 | | | | | | | | |
| 327.827 | 2976 | 0.31 | $M_2$ | 605 | 1965 | 1238 | | | | | | | | |
| | | | c | 4.3 | 1.5 | 2.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | 10 | 12 | | | | | | | | |
| | | | $n_{2\,th}$ | 12 | 10 | 12 | | | | | | | | |
| 353.033 | 2813 | 0.23 | $M_2$ | 655 | 2120 | 1337 | | | | | | | | |
| | | | c | 3.8 | 1.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 10 | 12 | | | | | | | | |
| | | | $n_{2\,th}$ | 11 | 10 | 11 | | | | | | | | |
| 397.863 | 3170 | 0.22 | $M_2$ | 738 | 2389 | 1507 | | | | | | | | |
| | | | c | 3.8 | 1.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 9 | 10 | | | | | | | | |
| | | | $n_{2\,th}$ | 10 | 9 | 10 | | | | | | | | |
| 424.247 | 2724 | 0.29 | $M_2$ | 793 | 2554 | 1613 | | | | | | | | |
| | | | c | 3.1 | 1.0 | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 9 | 8 | 10 | | | | | | | | |
| | | | $n_{2\,th}$ | 9 | 8 | 10 | | | | | | | | |
| 514.881 | 2724 | 0.21 | $M_2$ | 968 | | 1963 | | | | | | | | |
| | | | c | 2.5 | | 1.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 8 | | 8 | | | | | | | | |
| | | | $n_{2\,th}$ | 8 | | 8 | | | | | | | | |
| 554.470 | 2113 | 0.20 | $M_2$ | 1051 | | | | | | | | | | |
| | | | c | 1.8 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 7 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 7 | | | | | | | | | | |
| 624.879 | 2273 | 0.20 | $M_2$ | 1185 | | | | | | | | | | |
| | | | c | 1.7 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | | | | | | | | | | |
| 700.875 | 2113 | 0.13 | $M_2$ | 1333 | | | | | | | | | | |
| | | | c | 1.4 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | | | | | | | | | | |
| 789.875 | 2273 | 0.13 | $M_2$ | 1504 | | | | | | | | | | |
| | | | c | 1.4 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 5 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

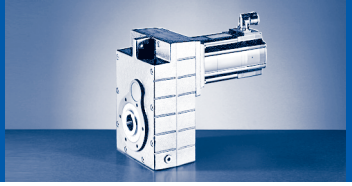
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5561$ Nm

| GFL11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 |
| 9.010 | 3570 | 79.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.799 | 3767 | 74.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 10.720 | 2595 | 65.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 10.720 | 3818 | 65.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 12.480 | 3466 | 81.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 14.538 | 3718 | 58.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 15.904 | 3800 | 51.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 17.920 | 3789 | 48.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 20.286 | 2281 | 36.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 405<br>5.2<br>83<br>83 | | 360<br>4.6<br>172<br>112 |
| 20.286 | 4045 | 36.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 22.857 | 2570 | 34.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 456<br>5.2<br>74<br>74 | | 406<br>4.6<br>152<br>99 |
| 22.857 | 4037 | 34.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 24.850 | 4268 | 26.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5561$ Nm

| 17NC41 | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 9.50 | 36.30 | 16.30 | 36.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 4110 | 1700 | 2340 | 3510 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 10.2 | 13.9 | 8.2 | 28.7 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 4.10 | 6.40 | 4.00 | 13.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | 458<br>5.6<br>391<br>223 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 79.60 | 3570 | 9.010 |
| | | | | | | 499<br>5.4<br>359<br>205 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 74.80 | 3767 | 9.799 |
| | | | 358<br>5.2<br>327<br>191 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 65.00 | 2595 | 10.720 |
| | | | | 608<br>5.7<br>160<br>160 | | 548<br>5.0<br>328<br>188 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 65.00 | 3818 | 10.720 |
| | | | | 717<br>4.5<br>137<br>132 | | 646<br>3.9<br>282<br>128 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 81.50 | 3466 | 12.480 |
| | | | | 838<br>4.1<br>118<br>118 | | 755<br>3.6<br>242<br>126 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 58.40 | 3718 | 14.538 |
| | | | 532<br>5.2<br>221<br>128 | 920<br>3.8<br>108<br>108 | | 828<br>3.4<br>221<br>117 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 51.30 | 3800 | 15.904 |
| | 600<br>5.8<br>95<br>95 | | 603<br>4.6<br>196<br>111 | 1041<br>3.4<br>95<br>95 | | 937<br>3.0<br>196<br>101 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 48.30 | 3789 | 17.920 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.10 | 2281 | 20.286 |
| | 682<br>5.4<br>84<br>84 | | 684<br>4.3<br>173<br>110 | 1181<br>3.2<br>84<br>84 | | 1062<br>2.8<br>174<br>99 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.10 | 4045 | 20.286 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 34.30 | 2570 | 22.857 |
| | 773<br>4.8<br>74<br>74 | | 775<br>3.8<br>154<br>95 | 1336<br>2.8<br>75<br>75 | | 1201<br>2.5<br>154<br>86 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 34.30 | 4037 | 22.857 |
| | 840<br>4.9<br>68<br>68 | | 839<br>4.2<br>141<br>99 | 1452<br>2.9<br>69<br>69 | | 1302<br>2.8<br>142<br>81 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 26.90 | 4268 | 24.850 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

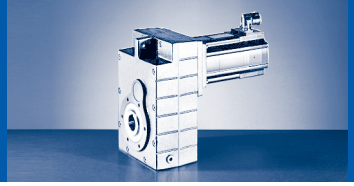
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5561$ Nm

| GFL11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 |
| 28.000 | 4263 | 25.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 32.739 | 2533 | 17.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 664<br>3.7<br>51<br>51 | | 587<br>3.6<br>106<br>88 |
| 32.739 | 4603 | 17.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 36.889 | 2855 | 16.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 748<br>3.7<br>46<br>46 | | 662<br>3.6<br>94<br>78 |
| 36.889 | 4601 | 16.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 40.233 | 2607 | 12.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 821<br>3.1<br>42<br>42 | | 726<br>3.0<br>87<br>77 |
| 40.233 | 4882 | 12.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 45.333 | 2938 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 925<br>3.1<br>37<br>37 | | 818<br>3.0<br>77<br>69 |
| 45.333 | 4881 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 52.067 | 2307 | 8.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 589<br>3.8<br>31<br>31 | | 531<br>3.6<br>66<br>66 | | | | |
| 52.067 | 2701 | 8.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1069<br>2.5<br>32<br>32 | 524<br>4.9<br>44<br>44 | 946<br>2.4<br>67<br>60 |
| 52.067 | 5251 | 8.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 58.667 | 2599 | 7.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 663<br>3.8<br>28<br>28 | | 598<br>3.6<br>59<br>59 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5561$ Nm

| 17NC41 | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 9.50 | 36.30 | 16.30 | 36.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 4110 | 1700 | 2340 | 3510 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 10.2 | 13.9 | 8.2 | 28.7 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 4.10 | 6.40 | 4.00 | 13.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | 952<br>4.3<br>61<br>61 | | 950<br>3.7<br>125<br>87 | 1641<br>2.6<br>61<br>61 | | 1472<br>2.4<br>126<br>72 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 25.70 | 4263 | 28.000 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.10 | 2533 | 32.739 |
| | 1117<br>4.0<br>52<br>52 | | 1115<br>3.5<br>107<br>75 | 1923<br>2.4<br>52<br>52 | 744<br>5.7<br>76<br>62 | 1724<br>2.3<br>108<br>62 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.10 | 4603 | 32.739 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.50 | 2855 | 36.889 |
| | 1265<br>3.5<br>46<br>46 | | 1261<br>3.1<br>95<br>66 | 2173<br>2.1<br>46<br>46 | 844<br>5.0<br>68<br>55 | 1948<br>2.0<br>95<br>55 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.50 | 4601 | 36.889 |
| 353<br>5.7<br>102<br>77 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.60 | 2607 | 40.233 |
| | 1381<br>3.5<br>42<br>42 | | 1377<br>3.0<br>87<br>61 | 2371<br>2.0<br>43<br>43 | 922<br>4.9<br>62<br>50 | 2126<br>1.9<br>88<br>50 | 630<br>6.0<br>103<br>50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.60 | 4882 | 40.233 |
| 398<br>5.7<br>91<br>69 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 2938 | 45.333 |
| | 1563<br>3.1<br>38<br>38 | | 1557<br>2.6<br>77<br>54 | 2678<br>1.8<br>38<br>38 | 1045<br>4.3<br>55<br>44 | 2401<br>1.7<br>78<br>44 | 715<br>5.3<br>92<br>44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.20 | 4881 | 45.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.08 | 2307 | 52.067 |
| 462<br>4.6<br>79<br>60 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.08 | 2701 | 52.067 |
| | 1799<br>2.9<br>33<br>33 | | 1791<br>2.5<br>67<br>47 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.08 | 5251 | 52.067 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.81 | 2599 | 58.667 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

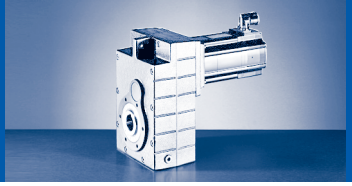
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5561$ Nm

| GFL11-2A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 |
| 58.667 | 3044 | 7.81 | $M_2$ | | | | | 1205 | 590 | 1066 |
| | | | c | | | | | 2.5 | 4.9 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | | 29 | 39 | 59 |
| | | | $n_{2\,th}$ | | | | | 29 | 39 | 53 |
| 58.667 | 5254 | 7.81 | $M_2$ | | | | | | | |
| | | | c | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | |
| 63.190 | 2344 | 5.90 | $M_2$ | 719 | 391 | 648 | 315 | | | |
| | | | c | 3.2 | 5.7 | 3.1 | 5.8 | | | |
| | | | $n_{2\,Eck}$ | 26 | 32 | 55 | 65 | | | |
| | | | $n_{2\,th}$ | 26 | 32 | 55 | 57 | | | |
| 63.190 | 2745 | 5.90 | $M_2$ | | | | | 1303 | 641 | 1153 |
| | | | c | | | | | 2.1 | 4.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | 27 | 36 | 55 |
| | | | $n_{2\,th}$ | | | | | 27 | 36 | 49 |
| 63.190 | 5557 | 5.90 | $M_2$ | | | | | | | |
| | | | c | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | |
| 71.200 | 2641 | 5.72 | $M_2$ | 810 | 440 | 728 | | | | |
| | | | c | 3.2 | 5.7 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | 23 | 28 | 49 | | | | |
| | | | $n_{2\,th}$ | 23 | 28 | 49 | | | | |
| 71.200 | 3093 | 5.72 | $M_2$ | | | | | 1469 | 722 | 1296 |
| | | | c | | | | | 2.1 | 4.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | 24 | 32 | 49 |
| | | | $n_{2\,th}$ | | | | | 24 | 32 | 44 |
| 71.200 | 5561 | 5.72 | $M_2$ | | | | | | | |
| | | | c | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | |
| 79.875 | 2381 | 3.87 | $M_2$ | 915 | 500 | 822 | 401 | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | |
| | | | $n_{2\,Eck}$ | 21 | 25 | 43 | 51 | | | |
| | | | $n_{2\,th}$ | 20 | 25 | 43 | 45 | | | |
| 79.875 | 2789 | 3.87 | $M_2$ | | | | | 1655 | 817 | 1460 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | | 21 | 29 | 44 |
| | | | $n_{2\,th}$ | | | | | 21 | 29 | 39 |
| 90.000 | 2683 | 3.76 | $M_2$ | 1031 | 563 | 926 | 451 | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | |
| | | | $n_{2\,Eck}$ | 18 | 22 | 38 | 46 | | | |
| | | | $n_{2\,th}$ | 18 | 22 | 38 | 40 | | | |
| 90.000 | 3143 | 3.76 | $M_2$ | | | | | 1864 | 920 | 1645 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | | 19 | 26 | 39 |
| | | | $n_{2\,th}$ | | | | | 19 | 26 | 35 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5561$ Nm

| 17NC41 | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL11-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 9.50 | 36.30 | 16.30 | 36.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 4110 | 1700 | 2340 | 3510 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 10.2 | 13.9 | 8.2 | 28.7 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 4.10 | 6.40 | 4.00 | 13.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 521<br>4.6<br>70<br>53 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.81 | 3044 | 58.667 |
| | 2033<br>2.5<br>29<br>29 | 884<br>5.6<br>40<br>40 | 2024<br>2.2<br>60<br>42 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.81 | 5254 | 58.667 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.90 | 2344 | 63.190 |
| 565<br>3.8<br>65<br>49 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.90 | 2745 | 63.190 |
| | 2191<br>2.5<br>27<br>27 | 954<br>5.5<br>37<br>37 | 2181<br>2.2<br>56<br>39 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.90 | 5557 | 63.190 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.72 | 2641 | 71.200 |
| 634<br>4.2<br>58<br>44 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.72 | 3093 | 71.200 |
| | 2476<br>2.2<br>24<br>24 | 1080<br>4.9<br>33<br>33 | 2458<br>2.1<br>49<br>34 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.72 | 5561 | 71.200 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.87 | 2381 | 79.875 |
| 718<br>3.4<br>52<br>39 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.87 | 2789 | 79.875 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.76 | 2683 | 90.000 |
| 809<br>3.4<br>46<br>35 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.76 | 3143 | 90.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

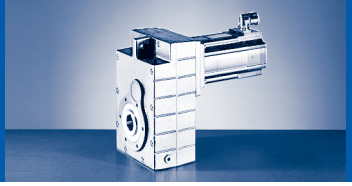
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5952$ Nm

| GFL11-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 65.306 | 2891 | 6.97 | $M_2$ | | | | 727 | | 652 | | 1326 |
| | | | c | | | | 3.9 | | 4.1 | | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 25 | | 53 | | 26 |
| | | | $n_{2\,th}$ | | | | 25 | | 53 | | 26 |
| 73.335 | 2875 | 7.84 | $M_2$ | | | | 820 | | 736 | | 1492 |
| | | | c | | | | 3.4 | | 3.6 | | 1.9 |
| | | | $n_{2\,Eck}$ | | | | 22 | | 47 | | 23 |
| | | | $n_{2\,th}$ | | | | 22 | | 47 | | 23 |
| 82.631 | 3240 | 7.71 | $M_2$ | | | | 924 | | 829 | | 1682 |
| | | | c | | | | 3.4 | | 3.6 | | 1.9 |
| | | | $n_{2\,Eck}$ | | | | 20 | | 42 | | 20 |
| | | | $n_{2\,th}$ | | | | 20 | | 42 | | 20 |
| 93.540 | 3206 | 5.05 | $M_2$ | | 537 | | 1050 | 572 | 944 | 458 | 1909 |
| | | | c | | 5.5 | | 3.0 | 5.4 | 3.2 | 6.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | 37 | | 18 | 21 | 37 | 44 | 18 |
| | | | $n_{2\,th}$ | | 36 | | 17 | 21 | 37 | 38 | 18 |
| 105.397 | 3613 | 4.97 | $M_2$ | | 605 | | 1184 | 644 | 1063 | 516 | 2150 |
| | | | c | | 5.5 | | 3.0 | 5.4 | 3.2 | 6.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | 32 | | 16 | 19 | 33 | 39 | 16 |
| | | | $n_{2\,th}$ | | 32 | | 16 | 19 | 33 | 34 | 16 |
| 114.586 | 3501 | 3.71 | $M_2$ | | | | 1291 | 705 | 1160 | 565 | 2342 |
| | | | c | | | | 2.7 | 4.8 | 2.8 | 5.3 | 1.5 |
| | | | $n_{2\,Eck}$ | | | | 14 | 18 | 30 | 36 | 15 |
| | | | $n_{2\,th}$ | | | | 14 | 17 | 30 | 31 | 15 |
| 129.111 | 3945 | 3.66 | $M_2$ | | | | 1455 | 794 | 1307 | 636 | 2639 |
| | | | c | | | | 2.7 | 4.8 | 2.8 | 5.3 | 1.5 |
| | | | $n_{2\,Eck}$ | | | | 13 | 16 | 27 | 32 | 13 |
| | | | $n_{2\,th}$ | | | | 13 | 15 | 27 | 28 | 13 |
| 149.144 | 3894 | 2.30 | $M_2$ | | 868 | | 1688 | 924 | 1517 | 741 | 3056 |
| | | | c | | 4.2 | | 2.3 | 4.1 | 2.4 | 4.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 23 | | 11 | 13 | 23 | 28 | 11 |
| | | | $n_{2\,th}$ | | 23 | | 11 | 13 | 23 | 24 | 11 |
| 168.049 | 4387 | 2.27 | $M_2$ | | 978 | | 1901 | 1041 | 1709 | 835 | 3443 |
| | | | c | | 4.2 | | 2.3 | 4.1 | 2.4 | 4.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 20 | | 10 | 12 | 21 | 24 | 10 |
| | | | $n_{2\,th}$ | | 20 | | 10 | 12 | 21 | 21 | 10 |
| 182.792 | 4233 | 1.66 | $M_2$ | | 1070 | 666 | 2074 | 1138 | 1864 | 913 | 3751 |
| | | | c | | 3.7 | 5.5 | 2.0 | 3.6 | 2.1 | 4.0 | 1.1 |
| | | | $n_{2\,Eck}$ | | 19 | 22 | 9 | 11 | 19 | 22 | 9 |
| | | | $n_{2\,th}$ | | 19 | 22 | 9 | 11 | 19 | 20 | 9 |
| 205.963 | 4769 | 1.64 | $M_2$ | | 1205 | 750 | 2337 | 1283 | 2100 | 1029 | 4226 |
| | | | c | | 3.7 | 5.5 | 2.0 | 3.6 | 2.1 | 4.0 | 1.1 |
| | | | $n_{2\,Eck}$ | | 17 | 20 | 8 | 10 | 17 | 20 | 8 |
| | | | $n_{2\,th}$ | | 17 | 20 | 8 | 10 | 17 | 17 | 8 |
| 224.636 | 4523 | 1.52 | $M_2$ | | 1321 | 825 | 2556 | 1406 | 2298 | 1129 | |
| | | | c | | 3.2 | 4.8 | 1.8 | 3.2 | 1.9 | 3.5 | |
| | | | $n_{2\,Eck}$ | | 15 | 18 | 7 | 9 | 15 | 18 | |
| | | | $n_{2\,th}$ | | 15 | 18 | 7 | 9 | 15 | 16 | |
| 253.111 | 5097 | 1.50 | $M_2$ | | 1489 | 929 | 2880 | 1584 | 2589 | 1272 | |
| | | | c | | 3.2 | 4.8 | 1.8 | 3.2 | 1.9 | 3.5 | |
| | | | $n_{2\,Eck}$ | | 14 | 16 | 7 | 8 | 14 | 16 | |
| | | | $n_{2\,th}$ | | 13 | 16 | 6 | 8 | 14 | 14 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5952$ Nm

| 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC25 | 21XC42 | GFL11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | ...S00 | | | | |
| 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 2490 | 4160 | $n_1$ | | | |
| 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | $J_M$ | | | |
| 651 | 1169 | 572 | 2259 | 998 | 2242 | 730 | | | $M_2$ | 6.97 | 2891 | 65.306 |
| 4.3 | 2.3 | 4.4 | 1.3 | 2.8 | 1.2 | 3.5 | | | c | | | |
| 35 | 53 | 63 | 26 | 36 | 54 | 64 | | | $n_{2\,Eck}$ | | | |
| 35 | 48 | 48 | 26 | 36 | 37 | 37 | | | $n_{2\,th}$ | | | |
| 735 | 1317 | 646 | 2541 | 1124 | 2521 | 823 | 1712 | 1177 | $M_2$ | 7.84 | 2875 | 73.335 |
| 3.8 | 2.1 | 3.9 | 1.1 | 2.5 | 1.1 | 3.1 | 1.7 | 2.2 | c | | | |
| 31 | 48 | 56 | 23 | 32 | 48 | 57 | 34 | 57 | $n_{2\,Eck}$ | | | |
| 31 | 42 | 42 | 23 | 32 | 31 | 33 | 27 | 27 | $n_{2\,th}$ | | | |
| 828 | 1484 | 728 | 2863 | 1267 | 2840 | 927 | 1929 | 1326 | $M_2$ | 7.71 | 3240 | 82.631 |
| 3.8 | 2.1 | 3.9 | 1.1 | 2.5 | 1.1 | 3.1 | 1.7 | 2.2 | c | | | |
| 28 | 42 | 50 | 21 | 28 | 43 | 50 | 30 | 50 | $n_{2\,Eck}$ | | | |
| 28 | 38 | 38 | 21 | 28 | 28 | 30 | 24 | 24 | $n_{2\,th}$ | | | |
| 942 | 1684 | 828 | | 1439 | | 1054 | | | $M_2$ | 5.05 | 3206 | 93.540 |
| 3.3 | 1.8 | 3.4 | | 2.2 | | 2.7 | | | c | | | |
| 25 | 37 | 44 | | 25 | | 44 | | | $n_{2\,Eck}$ | | | |
| 25 | 33 | 33 | | 25 | | 26 | | | $n_{2\,th}$ | | | |
| 1061 | 1898 | 933 | | 1621 | | 1187 | | | $M_2$ | 4.97 | 3613 | 105.397 |
| 3.3 | 1.8 | 3.4 | | 2.2 | | 2.7 | | | c | | | |
| 22 | 33 | 39 | | 22 | | 39 | | | $n_{2\,Eck}$ | | | |
| 22 | 30 | 30 | | 22 | | 23 | | | $n_{2\,th}$ | | | |
| 1158 | 2068 | 1018 | | 1767 | | 1295 | | | $M_2$ | 3.71 | 3501 | 114.586 |
| 3.0 | 1.6 | 3.0 | | 2.0 | | 2.4 | | | c | | | |
| 20 | 30 | 36 | | 20 | | 36 | | | $n_{2\,Eck}$ | | | |
| 20 | 27 | 27 | | 20 | | 21 | | | $n_{2\,th}$ | | | |
| 1305 | 2330 | 1147 | | 1991 | | 1459 | | | $M_2$ | 3.66 | 3945 | 129.111 |
| 3.0 | 1.6 | 3.0 | | 2.0 | | 2.4 | | | c | | | |
| 18 | 27 | 32 | | 18 | | 32 | | | $n_{2\,Eck}$ | | | |
| 18 | 24 | 24 | | 18 | | 19 | | | $n_{2\,th}$ | | | |
| 1515 | 2698 | 1332 | | | | | | | $M_2$ | 2.30 | 3894 | 149.144 |
| 2.5 | 1.4 | 2.6 | | | | | | | c | | | |
| 15 | 23 | 28 | | | | | | | $n_{2\,Eck}$ | | | |
| 15 | 21 | 21 | | | | | | | $n_{2\,th}$ | | | |
| 1707 | 3040 | 1500 | | | | | | | $M_2$ | 2.27 | 4387 | 168.049 |
| 2.5 | 1.4 | 2.6 | | | | | | | c | | | |
| 14 | 21 | 25 | | | | | | | $n_{2\,Eck}$ | | | |
| 14 | 19 | 19 | | | | | | | $n_{2\,th}$ | | | |
| 1862 | 3312 | 1637 | | | | | | | $M_2$ | 1.66 | 4233 | 182.792 |
| 2.2 | 1.2 | 2.3 | | | | | | | c | | | |
| 13 | 19 | 23 | | | | | | | $n_{2\,Eck}$ | | | |
| 13 | 17 | 17 | | | | | | | $n_{2\,th}$ | | | |
| 2098 | 3731 | 1845 | | | | | | | $M_2$ | 1.64 | 4769 | 205.963 |
| 2.2 | 1.2 | 2.3 | | | | | | | c | | | |
| 11 | 17 | 20 | | | | | | | $n_{2\,Eck}$ | | | |
| 11 | 15 | 15 | | | | | | | $n_{2\,th}$ | | | |
| 2295 | 4077 | 2018 | | | | | | | $M_2$ | 1.52 | 4523 | 224.636 |
| 2.0 | 1.1 | 2.0 | | | | | | | c | | | |
| 10 | 16 | 18 | | | | | | | $n_{2\,Eck}$ | | | |
| 10 | 14 | 14 | | | | | | | $n_{2\,th}$ | | | |
| 2586 | 4593 | 2274 | | | | | | | $M_2$ | 1.50 | 5097 | 253.111 |
| 2.0 | 1.1 | 2.0 | | | | | | | c | | | |
| 9 | 14 | 16 | | | | | | | $n_{2\,Eck}$ | | | |
| 9 | 12 | 12 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

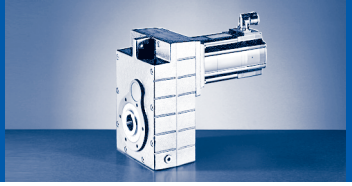
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 5952$ Nm

| GFL11-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 |
| 267.259 | 5106 | 1.87 | $M_2$ | | 1575 | 984 | 3044 | 1676 | 2736 | 1346 | |
| | | | c | | 3.0 | 4.5 | 1.7 | 3.0 | 1.8 | 3.3 | |
| | | | $n_{2\,Eck}$ | | 13 | 15 | 6 | 8 | 13 | 15 | |
| | | | $n_{2\,th}$ | | 13 | 15 | 6 | 7 | 13 | 13 | |
| 327.556 | 5523 | 1.37 | $M_2$ | | 1937 | 1213 | 3738 | 2061 | 3361 | 1656 | |
| | | | c | | 2.7 | 4.0 | 1.5 | 2.6 | 1.6 | 2.9 | |
| | | | $n_{2\,Eck}$ | | 10 | 12 | 5 | 6 | 11 | 13 | |
| | | | $n_{2\,th}$ | | 10 | 12 | 5 | 6 | 11 | 11 | |
| 358.077 | 4423 | 0.68 | $M_2$ | 649 | | | | | | | |
| | | | c | 5.9 | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | | | | | | | |
| | | | $n_{2\,th}$ | 11 | | | | | | | |
| 358.077 | 5283 | 0.68 | $M_2$ | | 2125 | 1333 | 4094 | 2261 | 3682 | 1817 | |
| | | | c | | 2.4 | 3.5 | 1.3 | 2.3 | 1.4 | 2.6 | |
| | | | $n_{2\,Eck}$ | | 10 | 11 | 5 | 6 | 10 | 12 | |
| | | | $n_{2\,th}$ | | 10 | 11 | 5 | 6 | 10 | 10 | |
| 403.467 | 4984 | 0.67 | $M_2$ | 732 | | | | | | | |
| | | | c | 5.9 | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | | | | | | | |
| | | | $n_{2\,th}$ | 10 | | | | | | | |
| 403.467 | 5952 | 0.67 | $M_2$ | | 2395 | 1502 | 4613 | 2548 | 4148 | 2048 | |
| | | | c | | 2.4 | 3.5 | 1.3 | 2.3 | 1.4 | 2.6 | |
| | | | $n_{2\,Eck}$ | | 9 | 10 | 4 | 5 | 9 | 10 | |
| | | | $n_{2\,th}$ | | 8 | 10 | 4 | 5 | 9 | 9 | |
| 430.222 | 5942 | 0.85 | $M_2$ | | 2558 | 1606 | 4923 | 2721 | 4428 | 2187 | |
| | | | c | | 2.2 | 3.3 | 1.2 | 2.2 | 1.3 | 2.4 | |
| | | | $n_{2\,Eck}$ | | 8 | 9 | 4 | 5 | 8 | 10 | |
| | | | $n_{2\,th}$ | | 8 | 9 | 4 | 5 | 8 | 8 | |
| 522.133 | 5942 | 0.62 | $M_2$ | 952 | 3117 | 1961 | | 3316 | 5386 | 2667 | |
| | | | c | 5.4 | 1.8 | 2.7 | | 1.8 | 1.1 | 2.0 | |
| | | | $n_{2\,Eck}$ | 8 | 7 | 8 | | 4 | 7 | 8 | |
| | | | $n_{2\,th}$ | 8 | 7 | 8 | | 4 | 7 | 7 | |
| 562.391 | 5319 | 0.60 | $M_2$ | 1035 | 3368 | 2122 | | 3583 | | 2883 | |
| | | | c | 4.5 | 1.5 | 2.2 | | 1.5 | | 1.7 | |
| | | | $n_{2\,Eck}$ | 7 | 6 | 7 | | 4 | | 7 | |
| | | | $n_{2\,th}$ | 7 | 6 | 7 | | 4 | | 6 | |
| 633.680 | 5844 | 0.60 | $M_2$ | 1168 | 3797 | 2392 | | 4039 | | 3249 | |
| | | | c | 4.4 | 1.5 | 2.2 | | 1.4 | | 1.6 | |
| | | | $n_{2\,Eck}$ | 6 | 5 | 6 | | 3 | | 7 | |
| | | | $n_{2\,th}$ | 6 | 5 | 6 | | 3 | | 6 | |
| 710.888 | 5319 | 0.39 | $M_2$ | 1322 | 4272 | 2696 | | | | | |
| | | | c | 3.6 | 1.2 | 1.8 | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 5 | 6 | | | | | |
| | | | $n_{2\,th}$ | 6 | 5 | 6 | | | | | |
| 801.000 | 5844 | 0.38 | $M_2$ | 1491 | 4814 | 3039 | | | | | |
| | | | c | 3.5 | 1.2 | 1.7 | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 4 | 5 | | | | | |
| | | | $n_{2\,th}$ | 5 | 4 | 5 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 5952$ Nm

| 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC25 | 21XC42 | GFL11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | ...S00 | | | | |
| 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 2490 | 4160 | $n_1$ | | | |
| 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | $J_M$ | | | |
| 2734<br>1.9<br>9<br>9 | 4853<br>1.0<br>13<br>12 | 2404<br>1.9<br>15<br>12 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.87 | 5106 | 267.259 |
| 3358<br>1.6<br>7<br>7 | | 2953<br>1.7<br>13<br>10 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.37 | 5523 | 327.556 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.68 | 4423 | 358.077 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.68 | 5283 | 358.077 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.67 | 4984 | 403.467 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.67 | 5952 | 403.467 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.85 | 5942 | 430.222 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.62 | 5942 | 522.133 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 5319 | 562.391 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 5844 | 633.680 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 5319 | 710.888 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.38 | 5844 | 801.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

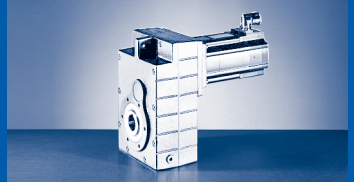
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 10639$ Nm

| GFL14-2A | | | | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC35 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...F10 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 61.40 | 55.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 1710 | 3520 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 22.5 | 42.5 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 11.00 | 20.30 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 |
| 19.948 | 7873 | 111.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1014<br>5.6<br>177<br>101 |
| 22.476 | 8870 | 105.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1143<br>5.6<br>157<br>90 |
| 24.456 | 8282 | 83.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1387<br>5.7<br>70<br>70 | 1245<br>5.4<br>144<br>82 |
| 27.556 | 9331 | 79.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1562<br>5.7<br>62<br>62 | 1403<br>5.4<br>128<br>73 |
| 32.344 | 6387 | 52.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1085<br>5.6<br>53<br>53 | | 1085<br>4.8<br>109<br>76 | | |
| 32.344 | 8734 | 52.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1857<br>4.5<br>53<br>53 | 1667<br>4.3<br>109<br>62 |
| 36.444 | 7196 | 50.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1223<br>5.6<br>47<br>47 | | 1223<br>4.8<br>96<br>67 | | |
| 36.444 | 9841 | 50.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2092<br>4.5<br>47<br>47 | 1878<br>4.3<br>97<br>55 |
| 39.642 | 6916 | 38.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1339<br>5.0<br>43<br>43 | | 1338<br>4.3<br>89<br>62 | | |
| 39.642 | 9101 | 38.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2292<br>3.9<br>43<br>43 | 2057<br>3.7<br>89<br>51 |
| 44.667 | 7793 | 36.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1509<br>5.0<br>38<br>38 | | 1507<br>4.3<br>79<br>55 | | |
| 44.667 | 10254 | 36.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2583<br>3.9<br>38<br>38 | 2318<br>3.7<br>79<br>45 |
| 52.067 | 7136 | 24.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1779<br>3.9<br>33<br>33 | | 1774<br>3.4<br>67<br>47 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 10639$ Nm

| GFL14-2A | | | | 19SC17 | 19SC23 | 19SC35 | 21XC17 | 21XC35 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...F10 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 61.40 | 55.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 1710 | 3520 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 22.5 | 42.5 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 11.00 | 20.30 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 180.04 | 180.04 |
| 52.067 | 9389 | 24.60 | $M_2$ | | | | 3037 | 2724 |
| | | | c | | | | 3.0 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 33 | 68 |
| | | | $n_{2\,th}$ | | | | 33 | 39 |
| 58.667 | 8041 | 23.80 | $M_2$ | 2005 | | 1999 | | |
| | | | c | 3.9 | | 3.4 | | |
| | | | $n_{2\,Eck}$ | 29 | | 60 | | |
| | | | $n_{2\,th}$ | 29 | | 42 | | |
| 58.667 | 10579 | 23.80 | $M_2$ | | | | 3422 | 3070 |
| | | | c | | | | 3.0 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 29 | 60 |
| | | | $n_{2\,th}$ | | | | 29 | 34 |
| 63.190 | 7250 | 18.00 | $M_2$ | 2174 | | 2166 | | |
| | | | c | 3.3 | | 2.8 | | |
| | | | $n_{2\,Eck}$ | 27 | | 56 | | |
| | | | $n_{2\,th}$ | 27 | | 39 | | |
| 63.190 | 9540 | 18.00 | $M_2$ | | | | 3705 | 3323 |
| | | | c | | | | 2.5 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 27 | 56 |
| | | | $n_{2\,th}$ | | | | 27 | 32 |
| 71.200 | 8169 | 17.40 | $M_2$ | 2449 | | 2433 | | |
| | | | c | 3.3 | | 3.1 | | |
| | | | $n_{2\,Eck}$ | 24 | | 49 | | |
| | | | $n_{2\,th}$ | 24 | | 34 | | |
| 71.200 | 10639 | 17.40 | $M_2$ | | | | 4176 | 3735 |
| | | | c | | | | 2.5 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 24 | 49 |
| | | | $n_{2\,th}$ | | | | 24 | 28 |
| 79.875 | 7015 | 11.80 | $M_2$ | 2770 | 1204 | 2750 | | |
| | | | c | 2.5 | 5.6 | 2.4 | | |
| | | | $n_{2\,Eck}$ | 21 | 29 | 44 | | |
| | | | $n_{2\,th}$ | 21 | 29 | 31 | | |
| 90.000 | 7905 | 11.50 | $M_2$ | 3121 | 1357 | 3099 | | |
| | | | c | 2.5 | 5.6 | 2.4 | | |
| | | | $n_{2\,Eck}$ | 19 | 26 | 39 | | |
| | | | $n_{2\,th}$ | 19 | 26 | 27 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

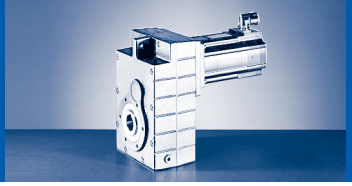
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11615$ Nm

| GFL14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 64.296 | 5610 | 26.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1276<br>4.3<br>26<br>26 | | 1129<br>4.1<br>54<br>48 | |
| 68.708 | 5416 | 19.86 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1370<br>3.8<br>25<br>24 | | 1207<br>4.1<br>51<br>45 | |
| 77.418 | 6103 | 19.38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1543<br>3.8<br>22<br>22 | | 1360<br>4.1<br>45<br>40 | |
| 85.037 | 6276 | 21.59 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1700<br>3.6<br>20<br>20 | | 1498<br>3.9<br>41<br>36 | |
| 104.889 | 5375 | 9.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1159<br>4.5<br>16<br>16 | | 1040<br>4.7<br>33<br>33 | | | | | |
| 104.889 | 6292 | 9.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2112<br>2.9<br>16<br>16 | 1028<br>5.8<br>22<br>22 | 1862<br>3.1<br>33<br>30 | 903<br>6.0<br>39<br>30 |
| 104.889 | 6888 | 9.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 114.126 | 5848 | 8.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1261<br>4.5<br>14<br>14 | | 1132<br>4.7<br>30<br>30 | | | | | |
| 114.126 | 6719 | 8.32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2299<br>2.9<br>15<br>15 | 1120<br>5.7<br>20<br>20 | 2027<br>3.1<br>31<br>27 | 984<br>5.8<br>36<br>27 |
| 128.593 | 6589 | 8.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1421<br>4.5<br>13<br>13 | | 1275<br>4.7<br>27<br>27 | | | | | |
| 128.593 | 7571 | 8.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2591<br>2.9<br>13<br>13 | 1262<br>5.7<br>18<br>18 | 2284<br>3.1<br>27<br>24 | 1108<br>5.8<br>32<br>24 |
| 136.889 | 7359 | 16.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2765<br>2.6<br>12<br>12 | 1351<br>5.2<br>17<br>17 | 2438<br>2.8<br>25<br>21 | 1186<br>5.3<br>30<br>23 |
| 156.148 | 6830 | 5.92 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1738<br>3.8<br>11<br>10 | | 1560<br>4.0<br>22<br>22 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11615$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 2195 | 955 | 2185 | | 3754 | 1471 | 3365 | 1008 | $M_2$ | 26.32 | 5610 | 64.296 |
| 2.5 | 5.5 | 2.2 | | 1.5 | 3.6 | 1.4 | 4.3 | c | | | |
| 26 | 36 | 55 | | 27 | 39 | 55 | 65 | $n_{2\,Eck}$ | | | |
| 26 | 36 | 38 | | 27 | 31 | 31 | 31 | $n_{2\,th}$ | | | |
| 2352 | 1025 | 2335 | | 4017 | 1576 | 3596 | 1077 | $M_2$ | 19.86 | 5416 | 68.708 |
| 2.3 | 5.1 | 2.2 | | 1.3 | 3.4 | 1.4 | 4.4 | c | | | |
| 25 | 34 | 51 | | 25 | 36 | 51 | 61 | $n_{2\,Eck}$ | | | |
| 25 | 34 | 36 | | 25 | 29 | 29 | 29 | $n_{2\,th}$ | | | |
| 2650 | 1155 | 2631 | | 4526 | 1775 | 4051 | 1214 | $M_2$ | 19.38 | 6103 | 77.418 |
| 2.3 | 5.1 | 2.2 | | 1.3 | 3.4 | 1.4 | 4.4 | c | | | |
| 22 | 30 | 45 | | 22 | 32 | 46 | 54 | $n_{2\,Eck}$ | | | |
| 22 | 30 | 32 | | 22 | 26 | 26 | 26 | $n_{2\,th}$ | | | |
| 2915 | 1273 | 2894 | 926 | 4976 | 1954 | 4454 | 1337 | $M_2$ | 21.59 | 6276 | 85.037 |
| 2.1 | 4.7 | 2.0 | 5.8 | 1.3 | 3.1 | 1.3 | 4.1 | c | | | |
| 20 | 28 | 41 | 49 | 20 | 29 | 41 | 49 | $n_{2\,Eck}$ | | | |
| 20 | 28 | 29 | 29 | 20 | 24 | 24 | 24 | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 9.32 | 5375 | 104.889 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 9.32 | 6292 | 104.889 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |
| 3605 | 1579 | 3578 | 1151 | | | | | $M_2$ | 9.32 | 6888 | 104.889 |
| 1.9 | 4.2 | 1.8 | 5.1 | | | | | c | | | |
| 16 | 22 | 34 | 40 | | | | | $n_{2\,Eck}$ | | | |
| 16 | 22 | 23 | 23 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 8.32 | 5848 | 114.126 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |
| 3930 | 1726 | 3901 | 1259 | | | | | $M_2$ | 8.32 | 6719 | 114.126 |
| 1.7 | 3.8 | 1.6 | 4.6 | | | | | c | | | |
| 15 | 21 | 31 | 36 | | | | | $n_{2\,Eck}$ | | | |
| 15 | 21 | 21 | 21 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 8.14 | 6589 | 128.593 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |
| 4428 | 1945 | 4395 | 1419 | | | | | $M_2$ | 8.14 | 7571 | 128.593 |
| 1.7 | 3.8 | 1.6 | 4.6 | | | | | c | | | |
| 13 | 18 | 27 | 32 | | | | | $n_{2\,Eck}$ | | | |
| 13 | 18 | 19 | 19 | | | | | $n_{2\,th}$ | | | |
| 4721 | 2078 | 4686 | 1517 | | 3175 | | 2178 | $M_2$ | 16.78 | 7359 | 136.889 |
| 1.6 | 3.5 | 1.5 | 4.2 | | 2.3 | | 3.0 | c | | | |
| 12 | 17 | 26 | 30 | | 18 | | 30 | $n_{2\,Eck}$ | | | |
| 12 | 17 | 16 | 18 | | 15 | | 15 | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 5.92 | 6830 | 156.148 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

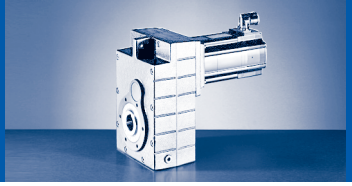
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11615$ Nm

| GFL14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 156.148 | 7992 | 5.92 | $M_2$ | | | | | 3158 | 1545 | 2785 | 1357 |
| | | | c | | | | | 2.5 | 5.0 | 2.7 | 5.1 |
| | | | $n_{2\,Eck}$ | | | | | 11 | 15 | 22 | 26 |
| | | | $n_{2\,th}$ | | | | | 11 | 15 | 20 | 20 |
| 156.148 | 8227 | 5.92 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 170.074 | 8408 | 6.96 | $M_2$ | 1883 | | 1690 | | 3443 | 1686 | 3037 | 1481 |
| | | | c | 4.3 | | 4.6 | | 2.4 | 4.8 | 2.6 | 4.9 |
| | | | $n_{2\,Eck}$ | 10 | | 20 | | 10 | 14 | 21 | 24 |
| | | | $n_{2\,th}$ | 10 | | 20 | | 10 | 14 | 18 | 18 |
| 202.074 | 7076 | 3.69 | $M_2$ | 2268 | 1233 | 2037 | | | | | |
| | | | c | 3.1 | 5.5 | 3.2 | | | | | |
| | | | $n_{2\,Eck}$ | 8 | 10 | 17 | | | | | |
| | | | $n_{2\,th}$ | 8 | 10 | 17 | | | | | |
| 202.074 | 8281 | 3.69 | $M_2$ | | | | | 4109 | 2021 | 3625 | 1776 |
| | | | c | | | | | 2.0 | 4.0 | 2.2 | 4.1 |
| | | | $n_{2\,Eck}$ | | | | | 8 | 11 | 17 | 20 |
| | | | $n_{2\,th}$ | | | | | 8 | 11 | 15 | 15 |
| 224.636 | 8739 | 4.74 | $M_2$ | 2512 | | 2256 | | 4572 | 2251 | 4035 | 1978 |
| | | | c | 3.4 | | 3.6 | | 1.9 | 3.8 | 2.0 | 3.9 |
| | | | $n_{2\,Eck}$ | 7 | | 15 | | 8 | 10 | 16 | 18 |
| | | | $n_{2\,th}$ | 7 | | 15 | | 7 | 10 | 14 | 14 |
| 253.111 | 9846 | 4.70 | $M_2$ | 2830 | | 2541 | | 5152 | 2537 | 4546 | 2229 |
| | | | c | 3.4 | | 3.6 | | 1.9 | 3.8 | 2.0 | 3.9 |
| | | | $n_{2\,Eck}$ | 7 | | 14 | | 7 | 9 | 14 | 16 |
| | | | $n_{2\,th}$ | 6 | | 14 | | 7 | 9 | 12 | 12 |
| 273.778 | 9753 | 5.76 | $M_2$ | 3071 | 1669 | 2758 | | 5582 | 2753 | 4926 | 2420 |
| | | | c | 3.1 | 5.6 | 3.3 | | 1.7 | 3.5 | 1.9 | 3.5 |
| | | | $n_{2\,Eck}$ | 6 | 7 | 13 | | 6 | 8 | 13 | 15 |
| | | | $n_{2\,th}$ | 6 | 7 | 13 | | 6 | 8 | 11 | 11 |
| 332.444 | 10550 | 4.30 | $M_2$ | 3742 | 2041 | 3362 | 1634 | 6792 | 3357 | 5995 | 2950 |
| | | | c | 2.8 | 5.0 | 2.9 | 5.5 | 1.5 | 3.1 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | 5 | 6 | 10 | 12 | 5 | 7 | 11 | 12 |
| | | | $n_{2\,th}$ | 5 | 6 | 10 | 11 | 5 | 7 | 9 | 9 |
| 352.811 | 10343 | 2.16 | $M_2$ | 3980 | 2174 | 3576 | 1742 | | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | 5 | 6 | 10 | 12 | | | | |
| | | | $n_{2\,th}$ | 5 | 6 | 10 | 10 | | | | |
| 352.811 | 10389 | 2.16 | $M_2$ | | | | | 7216 | 3571 | 6370 | 3139 |
| | | | c | | | | | 1.4 | 2.9 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | | 5 | 7 | 10 | 12 |
| | | | $n_{2\,th}$ | | | | | 5 | 7 | 9 | 9 |
| 397.533 | 11615 | 2.15 | $M_2$ | 4485 | 2451 | 4030 | 1963 | 8132 | 4024 | 7178 | 3537 |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | 1.4 | 2.8 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | 4 | 5 | 9 | 10 | 4 | 6 | 9 | 10 |
| | | | $n_{2\,th}$ | 4 | 5 | 9 | 9 | 4 | 6 | 8 | 8 |
| 430.222 | 10560 | 2.73 | $M_2$ | 4875 | 2673 | 4381 | 2144 | 8822 | 4376 | 7788 | 3847 |
| | | | c | 2.1 | 3.8 | 2.3 | 4.3 | 1.2 | 2.4 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | 4 | 5 | 8 | 10 | 4 | 5 | 8 | 10 |
| | | | $n_{2\,th}$ | 4 | 5 | 8 | 8 | 4 | 5 | 7 | 7 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

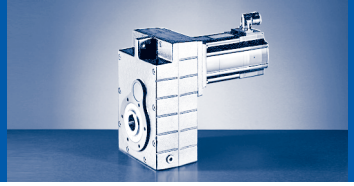


## $M_{2\,GN} \leq 11615$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.92 | 7992 | 156.148 |
| 5388<br>1.5<br>11<br>11 | 2372<br>3.4<br>15<br>15 | 5347<br>1.5<br>23<br>16 | 1732<br>4.1<br>27<br>16 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.92 | 8227 | 156.148 |
| 5874<br>1.4<br>10<br>10 | 2589<br>3.2<br>14<br>14 | 5829<br>1.4<br>21<br>14 | 1892<br>3.9<br>24<br>14 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.96 | 8408 | 170.074 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.69 | 7076 | 202.074 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.69 | 8281 | 202.074 |
| 7783<br>1.1<br>8<br>8 | 3444<br>2.5<br>10<br>10 | 7723<br>1.1<br>16<br>11 | 2521<br>3.0<br>19<br>11 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.74 | 8739 | 224.636 |
| 8769<br>1.1<br>7<br>7 | 3881<br>2.5<br>9<br>9 | 8701<br>1.1<br>14<br>10 | 2841<br>3.0<br>16<br>10 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.70 | 9846 | 253.111 |
| 9495<br>1.0<br>6<br>6 | 4207<br>2.3<br>9<br>9 | | 3081<br>2.8<br>15<br>9 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.76 | 9753 | 273.778 |
| | 5122<br>2.0<br>7<br>7 | | 3753<br>2.5<br>13<br>7 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.30 | 10550 | 332.444 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.16 | 10343 | 352.811 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.16 | 10389 | 352.811 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.15 | 11615 | 397.533 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.73 | 10560 | 430.222 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



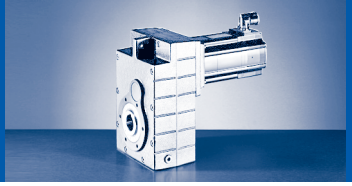


## $M_{2\,GN} \leq 11615$ Nm

| GFL14-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 522.133 | 10560 | 1.98 | $M_2$ | 5940 | 3268 | 5340 | 2623 | | 5335 | 9475 | 4690 |
| | | | c | 1.8 | 3.2 | 1.9 | 3.5 | | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 3 | 4 | 7 | 8 | | 4 | 7 | 8 |
| | | | $n_{2\,th}$ | 3 | 4 | 7 | 7 | | 4 | 6 | 6 |
| 562.391 | 9036 | 1.91 | $M_2$ | 6422 | 3544 | 5775 | 2847 | | 5771 | | 5074 |
| | | | c | 1.4 | 2.5 | 1.5 | 2.8 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | 3 | 4 | 6 | 7 | | 4 | | 7 |
| | | | $n_{2\,th}$ | 3 | 4 | 6 | 6 | | 4 | | 6 |
| 633.680 | 9811 | 1.90 | $M_2$ | 7240 | 3997 | 6511 | 3212 | | 6506 | | 5721 |
| | | | c | 1.4 | 2.4 | 1.4 | 2.7 | | 1.5 | | 1.5 |
| | | | $n_{2\,Eck}$ | 3 | 3 | 6 | 7 | | 4 | | 7 |
| | | | $n_{2\,th}$ | 3 | 3 | 5 | 6 | | 4 | | 5 |
| 710.888 | 9036 | 1.26 | $M_2$ | 8143 | 4505 | 7324 | 3622 | | | | |
| | | | c | 1.1 | 2.0 | 1.2 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 2 | 3 | 5 | 6 | | | | |
| | | | $n_{2\,th}$ | 2 | 3 | 5 | 5 | | | | |
| 801.000 | 9811 | 1.25 | $M_2$ | 9179 | 5080 | 8256 | 4084 | | | | |
| | | | c | 1.1 | 1.9 | 1.1 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 2 | 3 | 4 | 5 | | | | |
| | | | $n_{2\,th}$ | 2 | 3 | 4 | 4 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

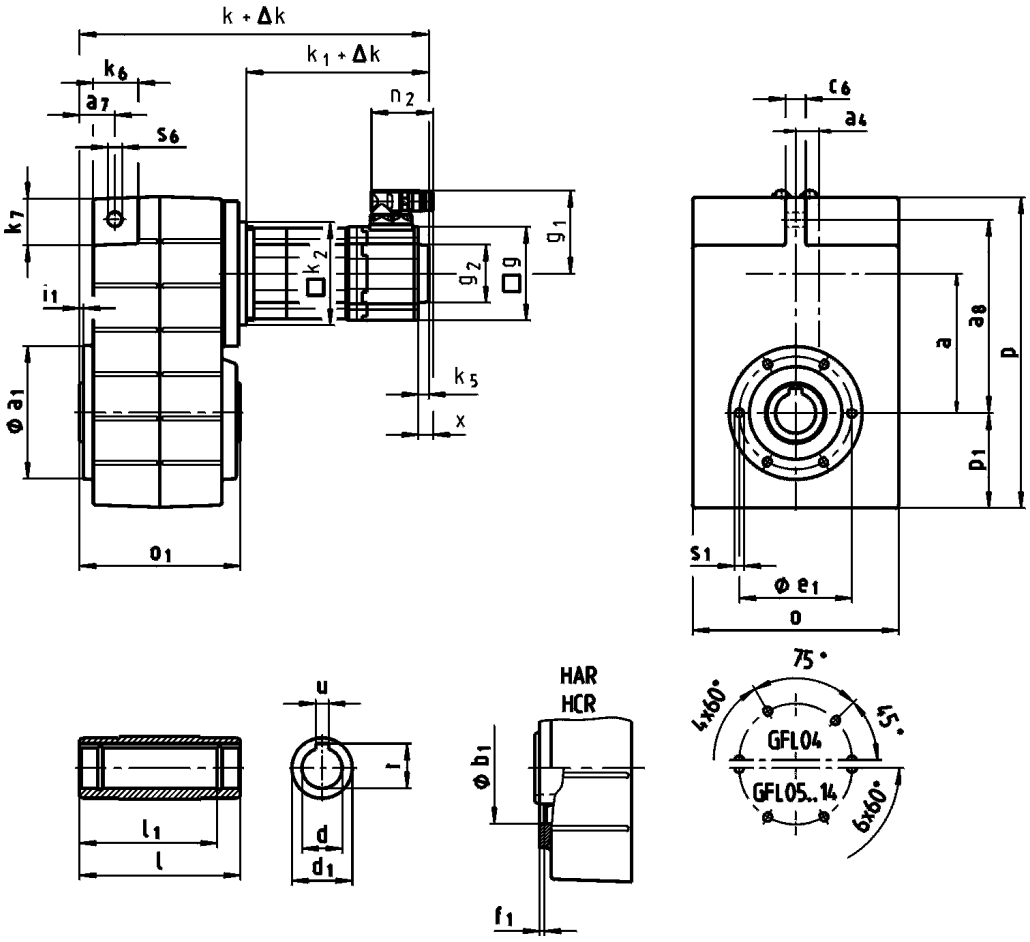


## $M_{2\,GN} \leq 11615$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GFL14-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.98 | 10560 | 522.133 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.91 | 9036 | 562.391 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.90 | 9811 | 633.680 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.26 | 9036 | 710.888 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.25 | 9811 | 801.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

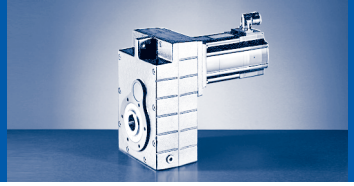



## GFL□□-2S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 260 | 290 | 320 | 312 | 332 | 352 | 392 | | | | | | | |
| GFL05... | k | 281 | 311 | 341 | 334 | 354 | 374 | 414 | 351 | | 391 | | | 431 | |
| GFL06... | k | 294 | 324 | 354 | 347 | 367 | 387 | 427 | 364 | | 404 | | | 444 | |
| GFL07... | k | | | | 380 | 400 | 420 | 460 | 397 | | 437 | | | 477 | |
| GFL09... | k | | | | | | | | 431 | | 471 | | | 511 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL05: 12DC20 ... 12LC41



## GFL□□-2S H□R ... RSO

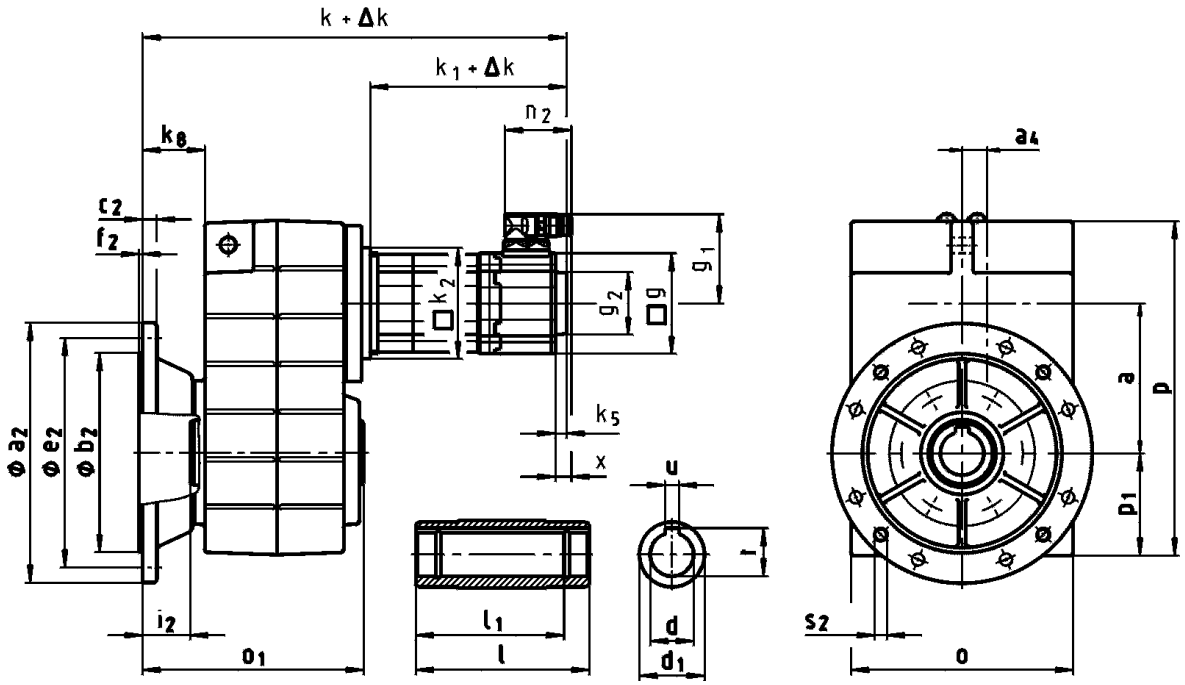
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 379 | | 419 | | 459 | | 499 | | | | | | | |
| GFL07... | k | 412 | | 452 | | 492 | | 532 | | 451 | | 491 | | 551 | |
| GFL09... | k | 446 | | 486 | | 526 | | 566 | | 485 | | 525 | | 585 | |
| GFL11... | k | 487 | | 527 | | 567 | | 607 | | 526 | | 566 | | 626 | |
| GFL14... | k | | | | | | | | | 571 | | 611 | | 671 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-2S H□R

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 115 | 214 | 69 | 90.5 | 12.5 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| **GFL05...** | 165 | 140 | 252 | 78 | 112.5 | 18.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 160 | 315 | 98 | 140 | 22 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 200 | 386 | 118 | 173 | 29 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 240 | 486 | 149 | 220 | 37.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 290 | 600 | 181 | 276.5 | 50 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 350 | 740 | 228 | 339 | 65 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | |
| **GFL04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 110 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GFL05...** | 35 | 140 | 50 | 124 | 10 | 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GFL11...** | 80 | 290 | 105 | 250 | 22 | 85.4 | 240 | 140 | 205 | | 6 | M20x32 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |

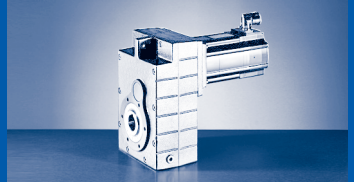



## GFL□□-2S HCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 293 | 323 | 353 | 346 | 366 | 386 | 426 | | | | | | | |
| GFL05... | k | 315 | 345 | 375 | 367 | 387 | 407 | 447 | 384 | | 424 | | | 464 | |
| GFL06... | k | 337 | 367 | 397 | 389 | 409 | 429 | 469 | 406 | | 446 | | | 486 | |
| GFL07... | k | | | | 435 | 455 | 475 | 515 | 452 | | 492 | | | 532 | |
| GFL09... | k | | | | | | | | 491 | | 531 | | | 571 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL05: 12DC20 ... 12LC41



## GFL□□-2S HCK ... RSO

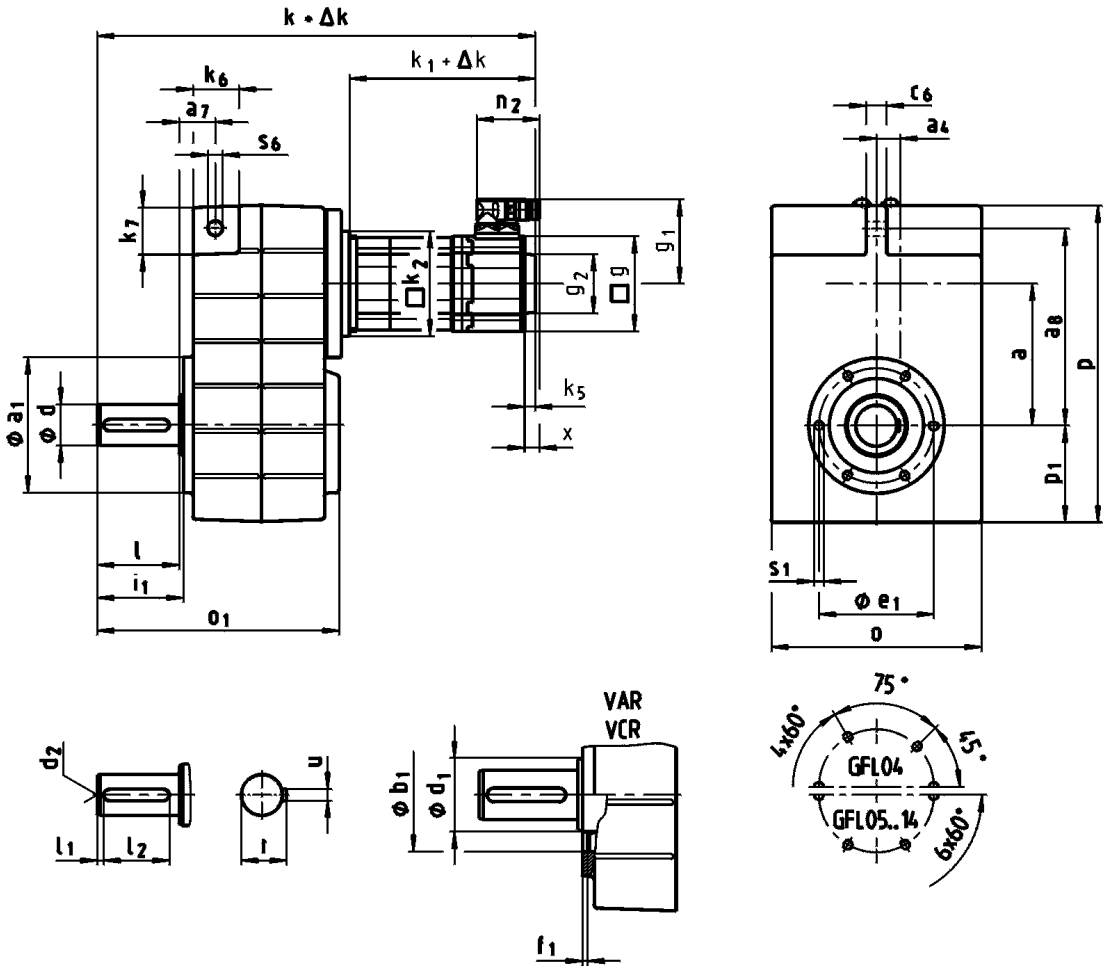
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 422 | | 462 | | 502 | | 542 | | | | | | | |
| GFL07... | k | 468 | | 508 | | 548 | | 588 | | 507 | | 547 | | 607 | |
| GFL09... | k | 507 | | 547 | | 587 | | 627 | | 546 | | 586 | | 646 | |
| GFL11... | k | 548 | | 588 | | 628 | | 668 | | 587 | | 627 | | 687 | |
| GFL14... | k | | | | | | | | | 632 | | 672 | | 732 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-2S HCK

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 148 | 214 | 69 | 90.5 | 12.5 | 42 |
| **GFL05...** | 165 | 173 | 252 | 78 | 112.5 | 18.5 | 46 |
| **GFL06...** | 206 | 201 | 315 | 98 | 140 | 22 | 56 |
| **GFL07...** | 256 | 255 | 386 | 118 | 173 | 29 | 73 |
| **GFL09...** | 318 | 300 | 486 | 149 | 220 | 37.5 | 78 |
| **GFL11...** | 395 | 350 | 600 | 181 | 276.5 | 50 | 86 |
| **GFL14...** | 490 | 410 | 740 | 228 | 339 | 65 | 90 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GFL04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GFL05...** | | 140 | 50 | 124 | | | 200 | 130 | 12 | 165 | | | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |

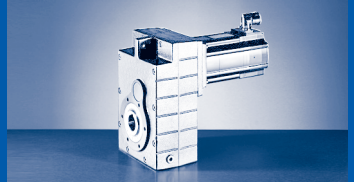



## GFL□□-2S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 310 | 340 | 370 | 362 | 382 | 402 | 442 | | | | | | | |
| GFL05... | k | 341 | 371 | 401 | 394 | 414 | 434 | 474 | 411 | | 451 | | | 491 | |
| GFL06... | k | 374 | 404 | 434 | 427 | 447 | 467 | 507 | 444 | | 484 | | | 524 | |
| GFL07... | k | | | | 480 | 500 | 520 | 560 | 497 | | 537 | | | 577 | |
| GFL09... | k | | | | | | | | 551 | | 591 | | | 631 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL05: 12DC20 ... 12LC41



## GFL□□-2S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 459 | | 499 | | 539 | | 579 | | | | | | | |
| GFL07... | k | 512 | | 552 | | 592 | | 632 | | 551 | | 591 | | 651 | |
| GFL09... | k | 566 | | 606 | | 646 | | 686 | | 605 | | 645 | | 705 | |
| GFL11... | k | 647 | | 687 | | 727 | | 767 | | 686 | | 726 | | 786 | |
| GFL14... | k | | | | | | | | | 771 | | 811 | | 871 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

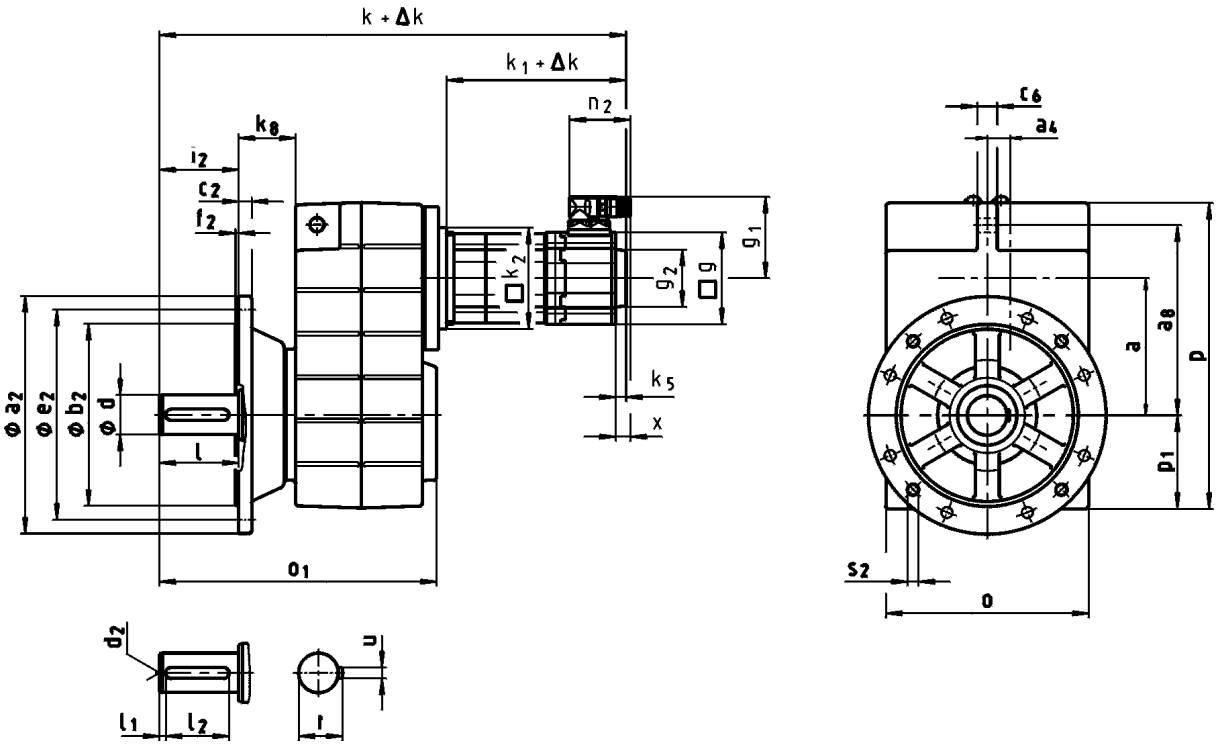
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-2S V□R

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 163 | 214 | 69 | 90.5 | 12.5 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| **GFL05...** | 165 | 197 | 252 | 78 | 112.5 | 18.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 236 | 315 | 98 | 140 | 22 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 296 | 386 | 118 | 173 | 29 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 356 | 486 | 149 | 220 | 37.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 445 | 600 | 181 | 276.5 | 50 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 544 | 740 | 228 | 339 | 65 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | |
| **GFL04...** | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 110 | 75 | 90 | 3 | 52.5 | M6x12 |
| **GFL05...** | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GFL06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GFL07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GFL09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GFL11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GFL14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

d ≤ 50 mm: k6; d > 50 mm: m6

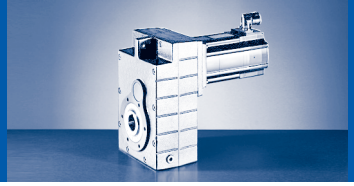



## GFL□□-2S VCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 343 | 373 | 403 | 396 | 416 | 436 | 476 | | | | | | | |
| GFL05... | k | 374 | 404 | 434 | 427 | 447 | 467 | 507 | 444 | | 484 | | | 524 | |
| GFL06... | k | 415 | 445 | 475 | 468 | 488 | 508 | 548 | 485 | | 525 | | | 565 | |
| GFL07... | k | | | | 535 | 555 | 575 | 615 | 552 | | 592 | | | 632 | |
| GFL09... | k | | | | | | | | 611 | | 651 | | | 691 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL05: 12DC20 ... 12LC41



## GFL□□-2S VCK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 500 | | 540 | | 580 | | 620 | | | | | | | |
| GFL07... | k | 567 | | 607 | | 647 | | 687 | | 606 | | 646 | | 706 | |
| GFL09... | k | 626 | | 666 | | 706 | | 746 | | 665 | | 705 | | 765 | |
| GFL11... | k | 707 | | 747 | | 787 | | 827 | | 746 | | 786 | | 846 | |
| GFL14... | k | | | | | | | | | 831 | | 871 | | 931 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

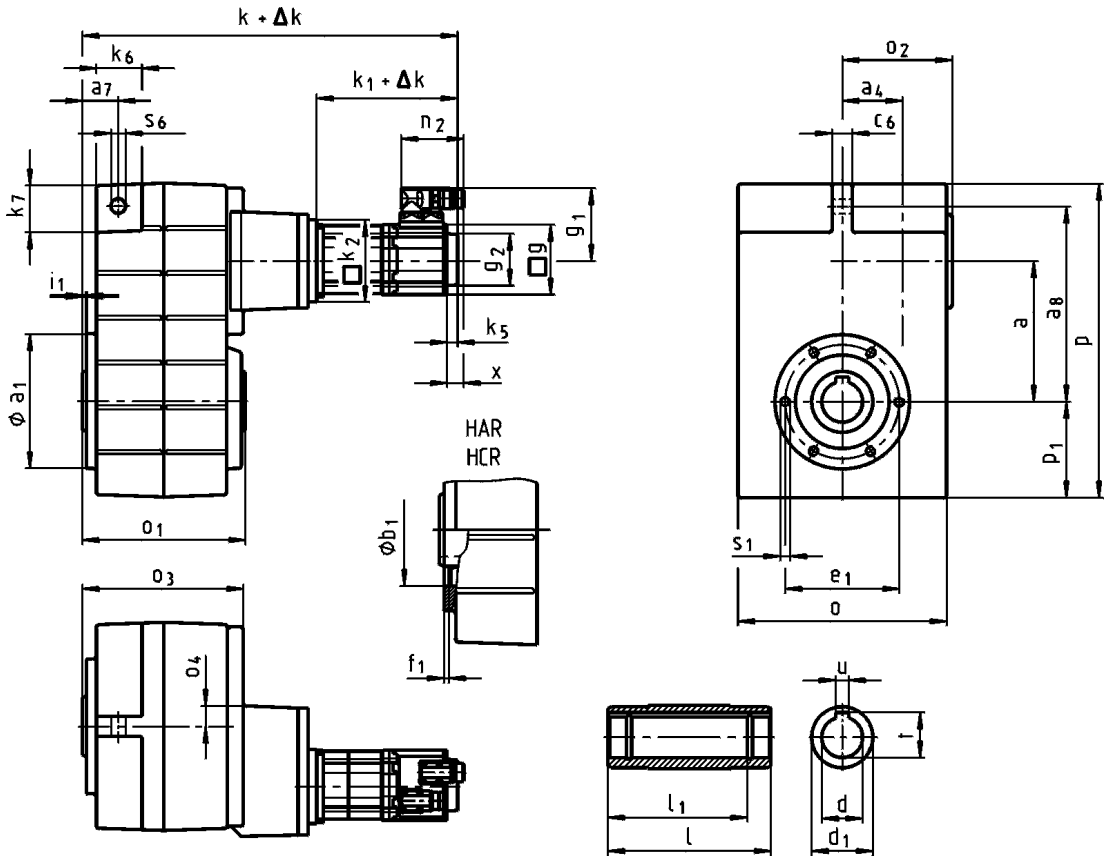
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-2S VCK

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 196 | 214 | 69 | 90.5 | 12.5 | 42 |
| **GFL05...** | 165 | 230 | 252 | 78 | 112.5 | 18.5 | 46 |
| **GFL06...** | 206 | 277 | 315 | 98 | 140 | 22 | 56 |
| **GFL07...** | 256 | 351 | 386 | 118 | 173 | 29 | 73 |
| **GFL09...** | 318 | 416 | 486 | 149 | 220 | 37.5 | 78 |
| **GFL11...** | 395 | 505 | 600 | 181 | 276.5 | 50 | 86 |
| **GFL14...** | 490 | 604 | 740 | 228 | 339 | 65 | 90 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GFL04...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| **GFL05...** | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| **GFL06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GFL07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GFL09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GFL11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| **GFL14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

d ≤ 50 mm: k6; d > 50 mm: m6

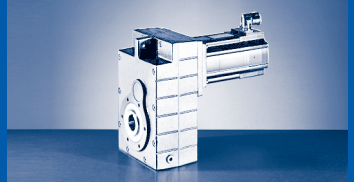



## GFL□□-3S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 358 | 388 | 418 | 410 | 430 | 450 | 490 | | | | | | | |
| GFL06... | k | 388 | 418 | 448 | 440 | 460 | 480 | 520 | | | | | | | |
| GFL07... | k | 432 | 462 | 492 | 484 | 504 | 524 | 564 | 501 | | 541 | | | 581 | |
| GFL09... | k | 484 | 514 | 544 | 536 | 556 | 576 | 616 | 553 | | 593 | | | 633 | |
| GFL11... | k | | | | 596 | 616 | 636 | 676 | 613 | | 653 | | | 693 | |
| GFL14... | k | | | | | | | | 692 | | 732 | | | 772 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL07: 12DC20 ... 12LC41



## GFL□□-3S H□R ... RSO

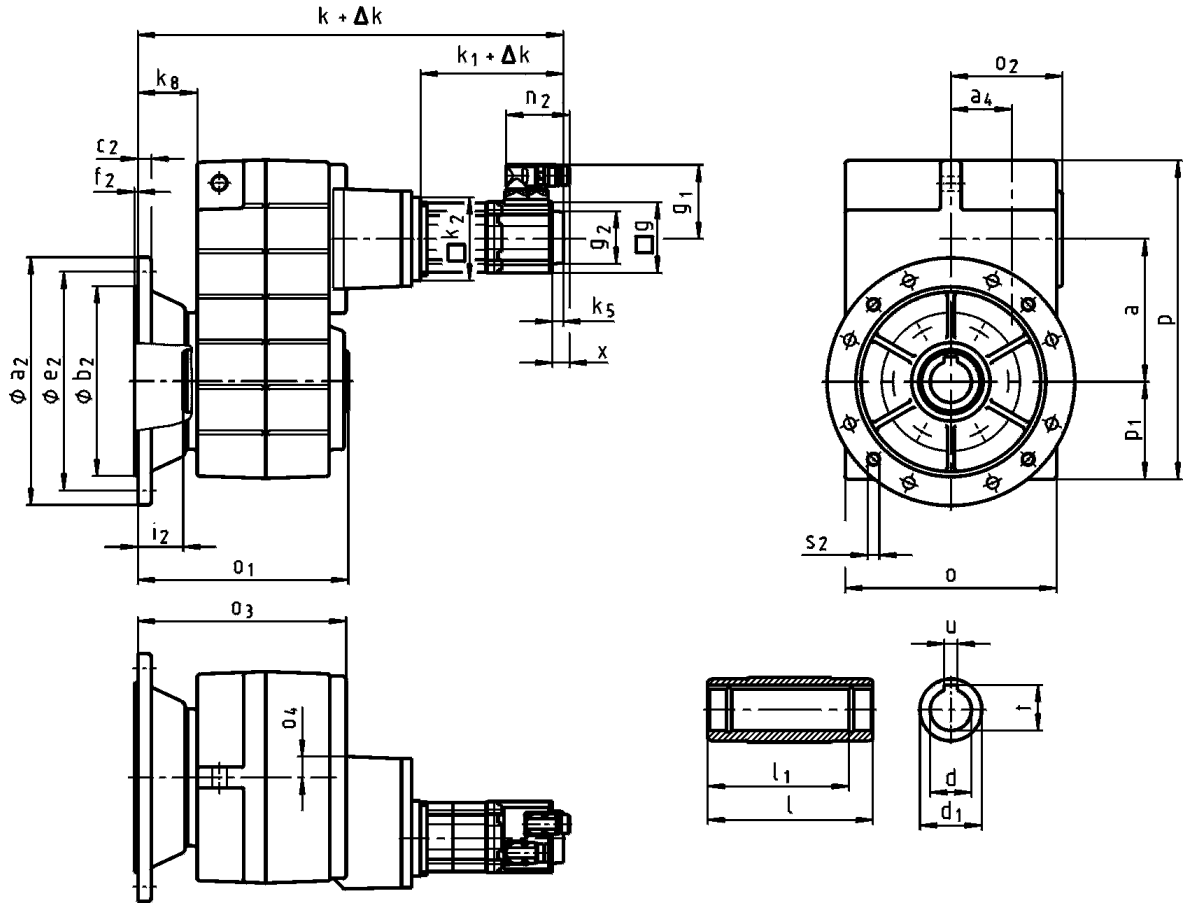
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 569 | | 609 | | 649 | | 689 | | | | | | | |
| GFL11... | k | 629 | | 669 | | 709 | | 749 | | 668 | | 708 | | 768 | |
| GFL14... | k | 708 | | 748 | | 788 | | 828 | | 747 | | 787 | | 847 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-3S H□R

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 140 | 107 | 141 | 23 | 252 | 78 | 112.5 | 54.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 160 | 111 | 160 | 20 | 315 | 98 | 140 | 58 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 200 | 135 | 199 | 24 | 386 | 118 | 173 | 74 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 240 | 170 | 238 | 27 | 486 | 149 | 220 | 93.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 290 | 216 | 285 | 34 | 600 | 181 | 276.5 | 120 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 350 | 271 | 340 | 38 | 740 | 228 | 339 | 154 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GFL05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 240 | 140 | 205 | | 6 | M20x32 |
| | 80 | | | | 22 | 85.4 | | | | | | |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |

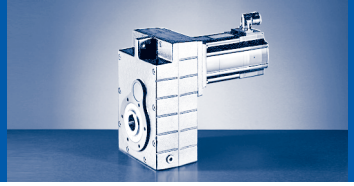



## GFL□□-3S HCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 391 | 421 | 451 | 444 | 464 | 484 | 524 | | | | | | | |
| GFL06... | k | 430 | 460 | 490 | 483 | 503 | 523 | 563 | | | | | | | |
| GFL07... | k | 487 | 517 | 547 | 540 | 560 | 580 | 620 | 557 | | 597 | | | 637 | |
| GFL09... | k | 544 | 574 | 604 | 597 | 617 | 637 | 677 | 614 | | 654 | | | 694 | |
| GFL11... | k | | | | 657 | 677 | 697 | 737 | 674 | | 714 | | | 754 | |
| GFL14... | k | | | | | | | | 753 | | 793 | | | 833 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL07: 12DC20 ... 12LC41



## GFL□□-3S HCK ... RSO

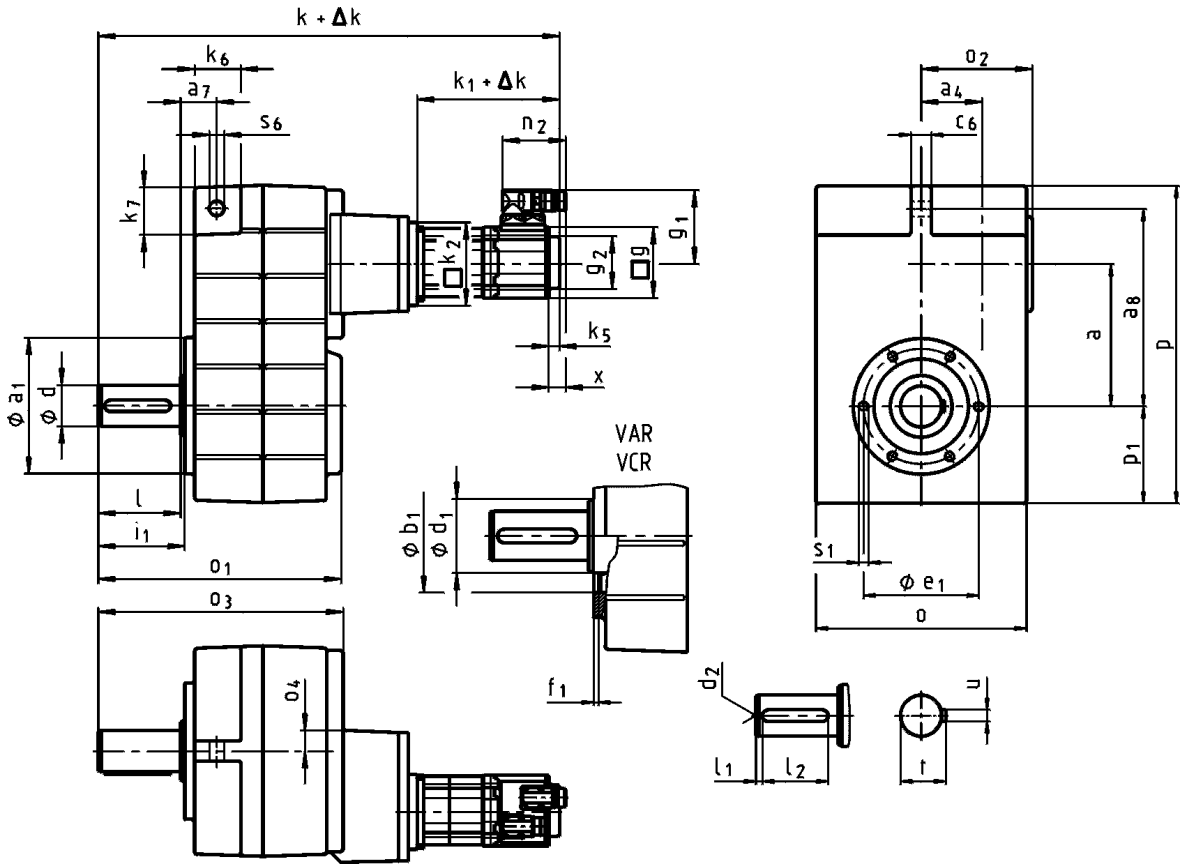
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 629 | | 669 | | 709 | | 749 | | | | | | | |
| GFL11... | k | 689 | | 729 | | 769 | | 809 | | 728 | | 768 | | 828 | |
| GFL14... | k | 768 | | 808 | | 848 | | 888 | | 807 | | 847 | | 907 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-3S HCK

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 173 | 107 | 174 | 23 | 252 | 78 | 112.5 | 54.5 | 46 |
| **GFL06...** | 206 | 201 | 111 | 201 | 20 | 315 | 98 | 140 | 58 | 56 |
| **GFL07...** | 256 | 255 | 135 | 254 | 24 | 386 | 118 | 173 | 74 | 73 |
| **GFL09...** | 318 | 300 | 170 | 298 | 27 | 486 | 149 | 220 | 93.5 | 78 |
| **GFL11...** | 395 | 350 | 216 | 345 | 34 | 600 | 181 | 276.5 | 120 | 86 |
| **GFL14...** | 490 | 410 | 271 | 400 | 38 | 740 | 228 | 339 | 154 | 90 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GFL05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |



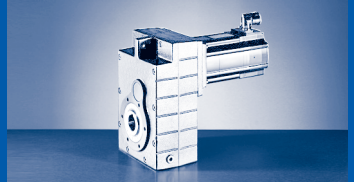

## GFL□□-3S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 418 | 448 | 478 | 470 | 490 | 510 | 550 | | | | | | | |
| GFL06... | k | 468 | 498 | 528 | 520 | 540 | 560 | 600 | | | | | | | |
| GFL07... | k | 532 | 562 | 592 | 584 | 604 | 624 | 664 | 601 | | 641 | | | 681 | |
| GFL09... | k | 604 | 634 | 664 | 656 | 676 | 696 | 736 | 673 | | 713 | | | 753 | |
| GFL11... | k | | | | 756 | 776 | 796 | 836 | 773 | | 813 | | | 853 | |
| GFL14... | k | | | | | | | | 892 | | 932 | | | 972 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | 228 | | 268 |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | |
| | g | 62 | | | 89 | | | | 116 | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | |
| | x | 21 | | | | | | | 18 | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL07: 12DC20 ... 12LC41



## GFL□□-3S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 689 | | 729 | | 769 | | 809 | | | | | | | |
| GFL11... | k | 789 | | 829 | | 869 | | 909 | | 828 | | 868 | | 928 | |
| GFL14... | k | 908 | | 948 | | 988 | | 1028 | | 947 | | 987 | | 1047 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

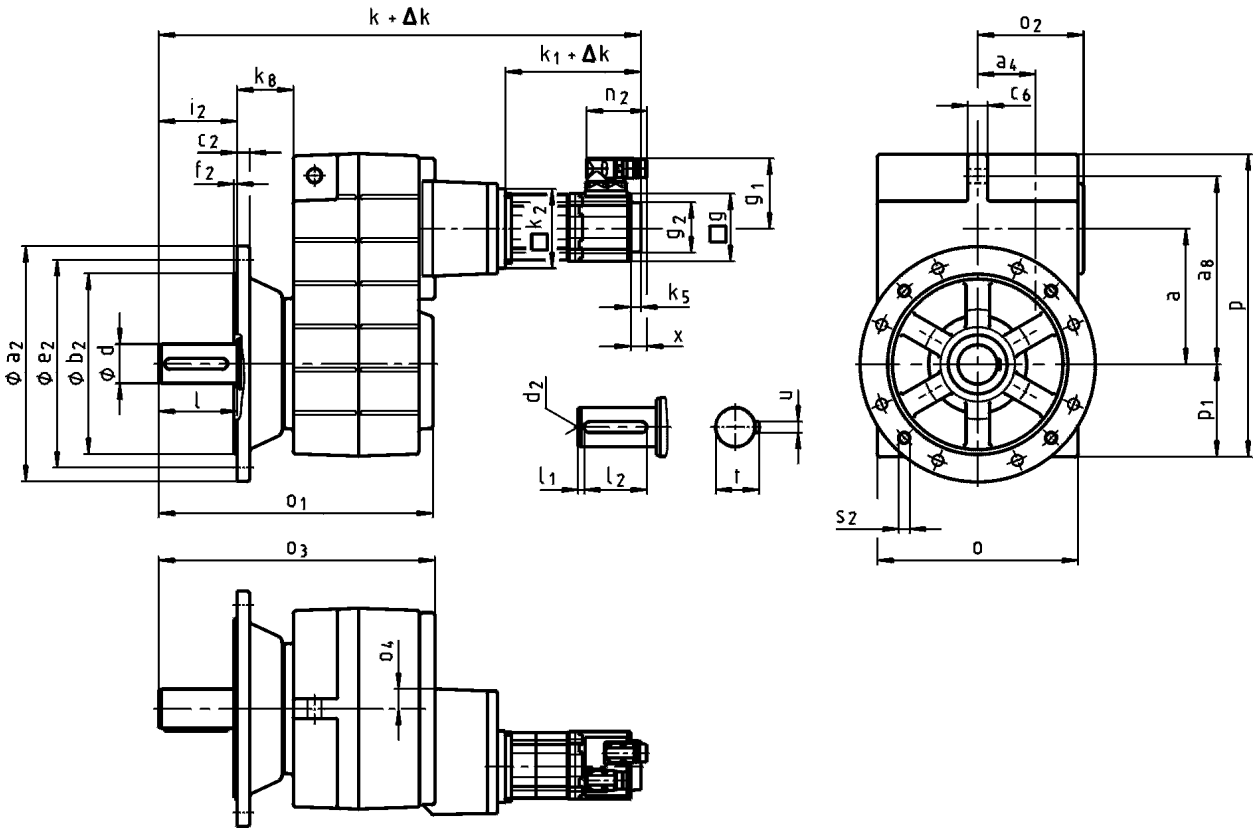
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-3S V□R

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 197 | 107 | 201 | 23 | 252 | 78 | 112.5 | 54.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 236 | 111 | 240 | 20 | 315 | 98 | 140 | 58 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 296 | 135 | 299 | 24 | 386 | 118 | 173 | 74 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 356 | 170 | 358 | 27 | 486 | 149 | 220 | 93.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 445 | 216 | 445 | 34 | 600 | 181 | 276.5 | 120 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 544 | 271 | 540 | 38 | 740 | 228 | 339 | 154 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GFL05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GFL06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GFL07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GFL09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GFL11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GFL14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

d ≤ 50 mm: k6; d > 50 mm: m6

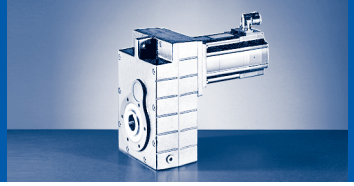



## GFL□□-3S VCK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 451 | 481 | 511 | 504 | 524 | 544 | 584 | | | | | | | |
| GFL06... | k | 509 | 539 | 569 | 562 | 582 | 602 | 642 | | | | | | | |
| GFL07... | k | 587 | 617 | 647 | 640 | 660 | 680 | 720 | 657 | | 697 | | | 737 | |
| GFL09... | k | 664 | 694 | 724 | 717 | 737 | 757 | 797 | 734 | | 774 | | | 814 | |
| GFL11... | k | | | | 817 | 837 | 857 | 897 | 834 | | 874 | | | 914 | |
| GFL14... | k | | | | | | | | 953 | | 993 | | | 1033 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GFL07: 12DC20 ... 12LC41



## GFL□□-3S VCK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 749 | | 789 | | 829 | | 869 | | | | | | | |
| GFL11... | k | 849 | | 889 | | 929 | | 969 | | 888 | | 928 | | 988 | |
| GFL14... | k | 968 | | 1008 | | 1048 | | 1088 | | 1007 | | 1047 | | 1107 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

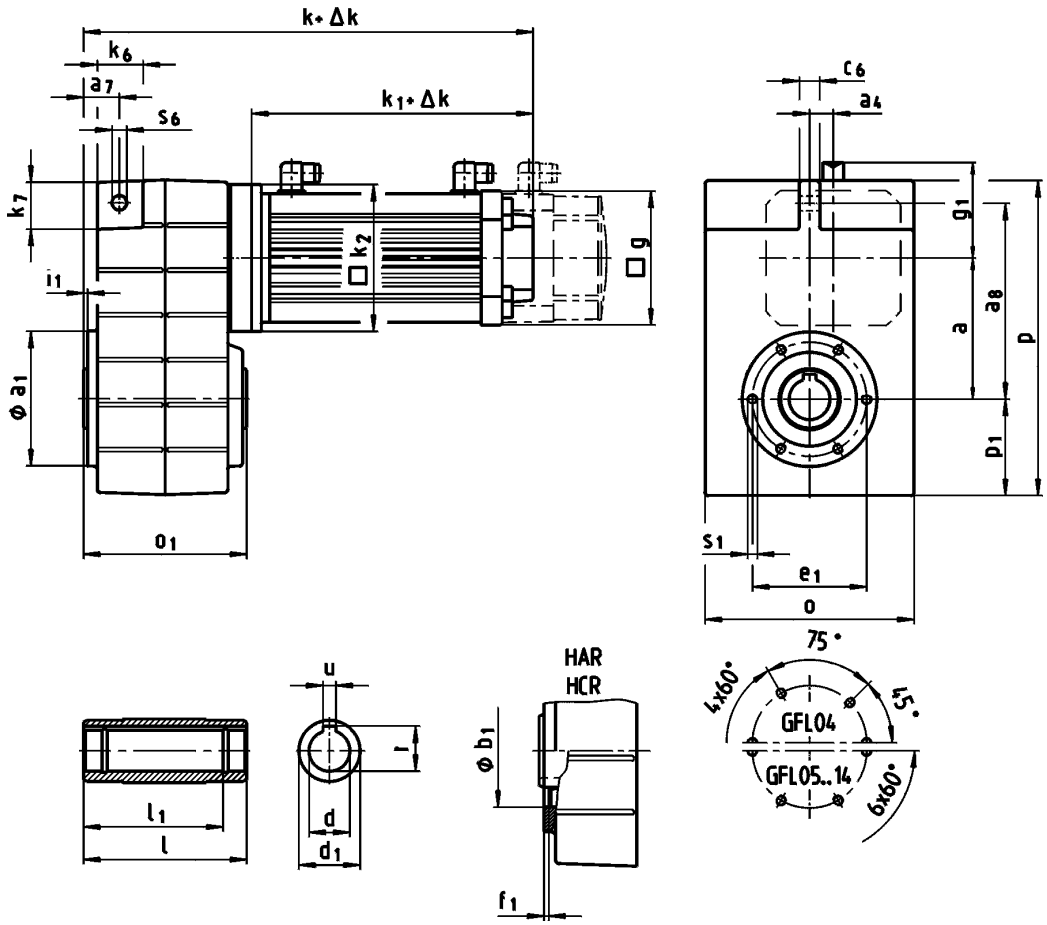
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GFL□□-3S VCK

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 230 | 107 | 234 | 23 | 252 | 78 | 112.5 | 54.5 | 46 |
| **GFL06...** | 206 | 277 | 111 | 281 | 20 | 315 | 98 | 140 | 58 | 56 |
| **GFL07...** | 256 | 351 | 135 | 354 | 24 | 386 | 118 | 173 | 74 | 73 |
| **GFL09...** | 318 | 416 | 170 | 418 | 27 | 486 | 149 | 220 | 93.5 | 78 |
| **GFL11...** | 395 | 505 | 216 | 505 | 34 | 600 | 181 | 276.5 | 120 | 86 |
| **GFL14...** | 490 | 604 | 271 | 600 | 38 | 740 | 228 | 339 | 154 | 90 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GFL05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| **GFL06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GFL07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GFL09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GFL11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| **GFL14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

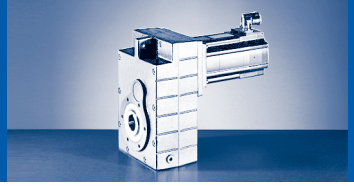
d ≤ 50 mm: k6; d > 50 mm: m6




## GFL□□-2A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 388 | 396 | 464 | | | | | | |
| GFL05... | k | 409 | 418 | 486 | 468 | | 530 | | | |
| GFL06... | k | 422 | 431 | 499 | 481 | | 543 | | 520 | |
| GFL07... | k | 455 | 464 | 532 | 514 | | 576 | | 553 | |
| GFL09... | k | | | | 548 | | 610 | | 587 | |
| GFL11... | k | | | | 589 | | 651 | | 628 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-2A H□R ... RSO

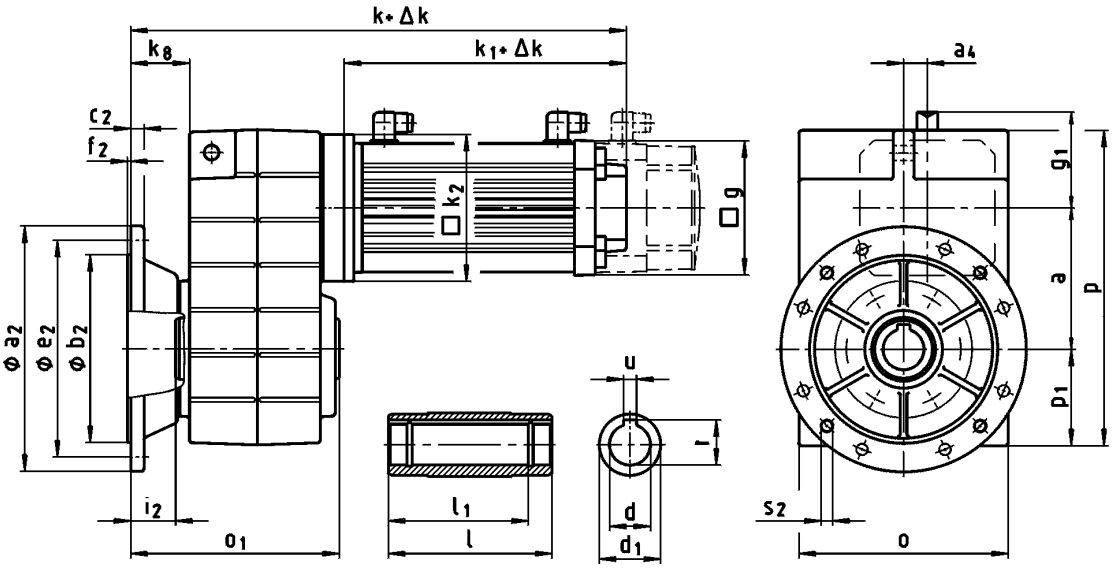
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 609 | | | | | | | | | |
| GFL07... | k | 642 | | 621 | | 718 | | 700 | | 796 | |
| GFL09... | k | 676 | | 655 | | 752 | | 734 | | 830 | |
| GFL11... | k | 717 | | 696 | | 793 | | 775 | | 871 | |
| GFL14... | k | | | 741 | | 838 | | 820 | | 916 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-2A H□R

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 115 | 214 | 69 | 90.5 | 12.5 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| **GFL05...** | 165 | 140 | 252 | 78 | 112.5 | 18.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 160 | 315 | 98 | 140 | 22 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 200 | 386 | 118 | 173 | 29 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 240 | 486 | 149 | 220 | 37.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 290 | 600 | 181 | 276.5 | 50 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 350 | 740 | 228 | 339 | 65 | 80 | 455 | 50 | 32 | 100 | 114 |

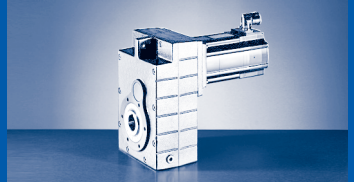
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | |
| **GFL04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 110 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GFL05...** | 35 | 140 | 50 | 124 | 10 | 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GFL11...** | 80 | 290 | 105 | 250 | 22 | 85.4 | 240 | 140 | 205 | | 6 | M20x32 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |




## GFL□□-2A HCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 421 | 430 | 498 | | | | | | |
| GFL05... | k | 443 | 451 | 519 | 501 | | 563 | | | |
| GFL06... | k | 465 | 473 | 541 | 523 | | 585 | | 562 | |
| GFL07... | k | 511 | 519 | 587 | 569 | | 631 | | 608 | |
| GFL09... | k | | | | 608 | | 670 | | 647 | |
| GFL11... | k | | | | 649 | | 711 | | 688 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-2A HCK ... RSO

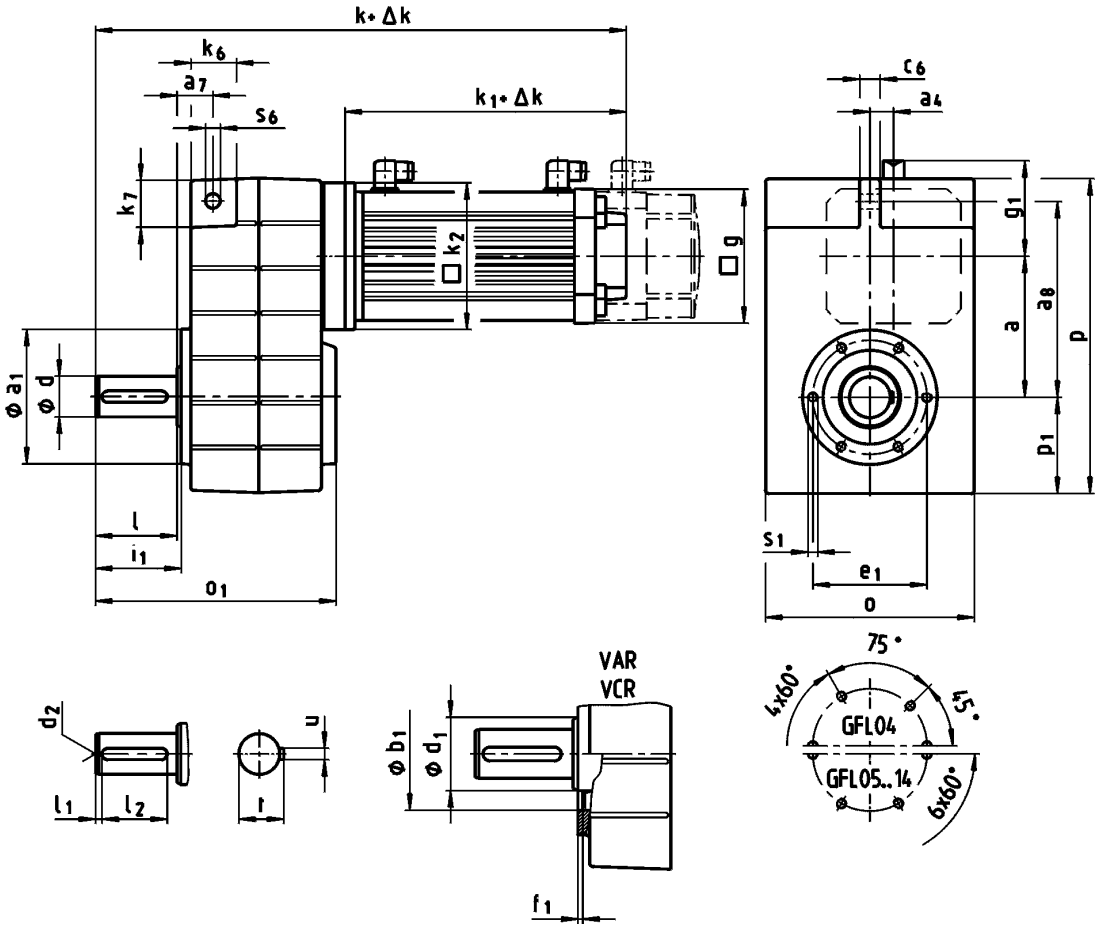
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 651 | | | | | | | | | |
| GFL07... | k | 697 | | 677 | | 774 | | 755 | | 851 | |
| GFL09... | k | 736 | | 716 | | 813 | | 794 | | 890 | |
| GFL11... | k | 777 | | 757 | | 854 | | 835 | | 931 | |
| GFL14... | k | | | 802 | | 899 | | 880 | | 976 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-2A HCK

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 148 | 214 | 69 | 90.5 | 12.5 | 42 |
| **GFL05...** | 165 | 173 | 252 | 78 | 112.5 | 18.5 | 46 |
| **GFL06...** | 206 | 201 | 315 | 98 | 140 | 22 | 56 |
| **GFL07...** | 256 | 255 | 386 | 118 | 173 | 29 | 73 |
| **GFL09...** | 318 | 300 | 486 | 149 | 220 | 37.5 | 78 |
| **GFL11...** | 395 | 350 | 600 | 181 | 276.5 | 50 | 86 |
| **GFL14...** | 490 | 410 | 740 | 228 | 339 | 65 | 90 |

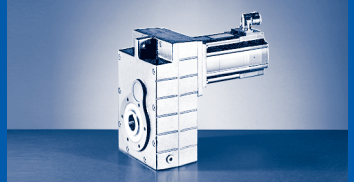
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GFL04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GFL05...** | | 140 | 50 | 124 | | | 200 | 130 | 12 | 165 | | | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |




## GFL□□-2A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 438 | 446 | 514 | | | | | | |
| GFL05... | k | 469 | 478 | 546 | 528 | | 590 | | | |
| GFL06... | k | 502 | 511 | 579 | 561 | | 623 | | 600 | |
| GFL07... | k | 555 | 564 | 632 | 614 | | 676 | | 653 | |
| GFL09... | k | | | | 668 | | 730 | | 707 | |
| GFL11... | k | | | | 749 | | 811 | | 788 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-2A V□R ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 689 | | | | | | | | | |
| GFL07... | k | 742 | | 721 | | 818 | | 800 | | 896 | |
| GFL09... | k | 796 | | 775 | | 872 | | 854 | | 950 | |
| GFL11... | k | 877 | | 856 | | 953 | | 935 | | 1031 | |
| GFL14... | k | | | 941 | | 1038 | | 1020 | | 1116 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

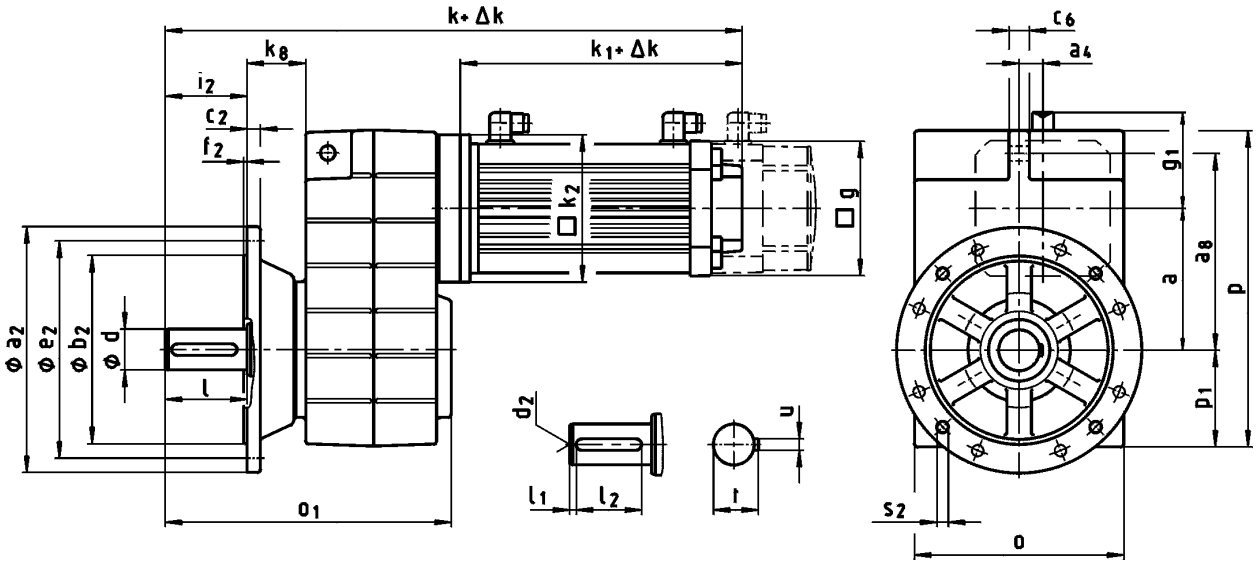
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-2A V□R

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 163 | 214 | 69 | 90.5 | 12.5 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| **GFL05...** | 165 | 197 | 252 | 78 | 112.5 | 18.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 236 | 315 | 98 | 140 | 22 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 296 | 386 | 118 | 173 | 29 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 356 | 486 | 149 | 220 | 37.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 445 | 600 | 181 | 276.5 | 50 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 544 | 740 | 228 | 339 | 65 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | |
| **GFL04...** | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 110 | 75 | 90 | 3 | 52.5 | M6x12 |
| **GFL05...** | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GFL06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GFL07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GFL09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GFL11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GFL14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

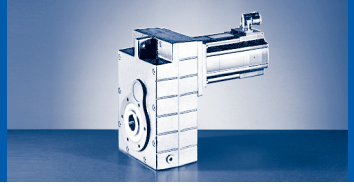
d ≤ 50 mm: k6; d > 50 mm: m6




## GFL□□-2A VCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | k | 471 | 480 | 548 | | | | | | |
| GFL05... | k | 502 | 511 | 579 | 561 | | 623 | | | |
| GFL06... | k | 543 | 552 | 620 | 602 | | 664 | | 641 | |
| GFL07... | k | 610 | 619 | 687 | 669 | | 731 | | 708 | |
| GFL09... | k | | | | 728 | | 790 | | 767 | |
| GFL11... | k | | | | 809 | | 871 | | 848 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-2A VCK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | k | 730 | | | | | | | | | |
| GFL07... | k | 797 | | 776 | | 873 | | 855 | | 951 | |
| GFL09... | k | 856 | | 835 | | 932 | | 914 | | 1010 | |
| GFL11... | k | 937 | | 916 | | 1013 | | 995 | | 1091 | |
| GFL14... | k | | | 1001 | | 1098 | | 1080 | | 1176 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

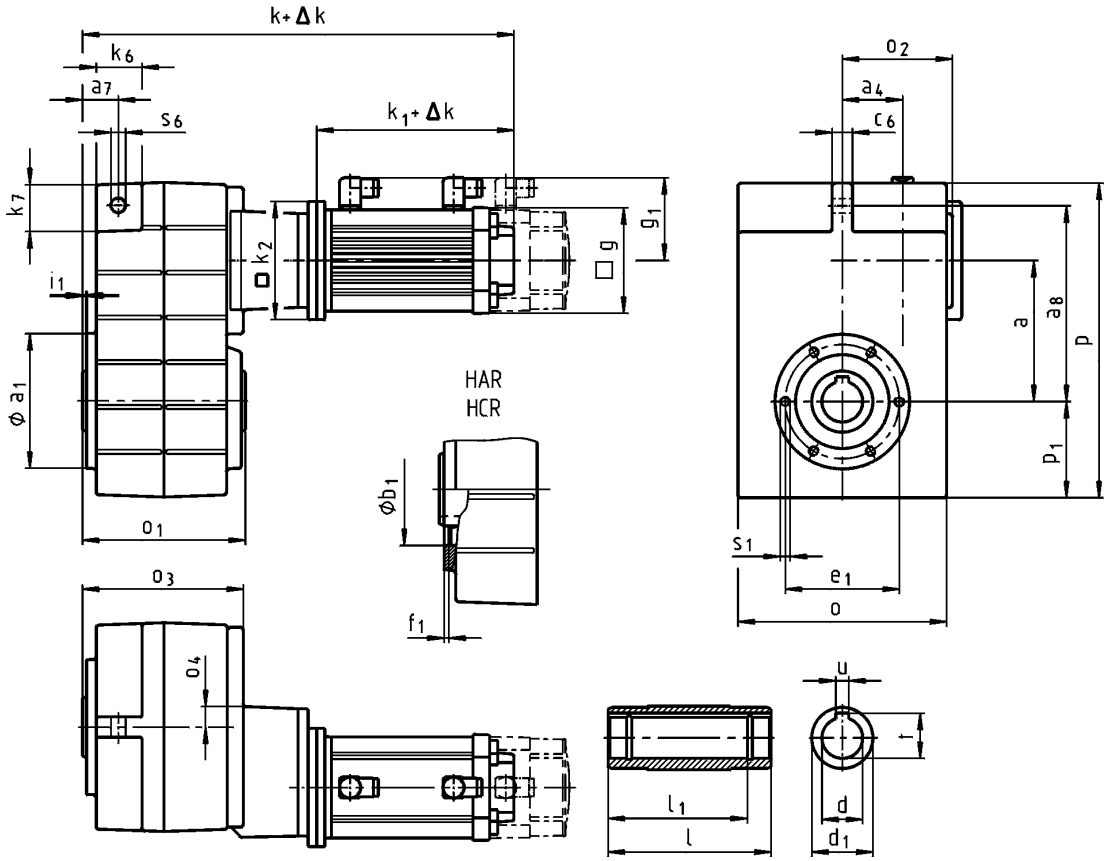
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-2A VCK

| | o | $o_1$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|
| **GFL04...** | 148 | 196 | 214 | 69 | 90.5 | 12.5 | 42 |
| **GFL05...** | 165 | 230 | 252 | 78 | 112.5 | 18.5 | 46 |
| **GFL06...** | 206 | 277 | 315 | 98 | 140 | 22 | 56 |
| **GFL07...** | 256 | 351 | 386 | 118 | 173 | 29 | 73 |
| **GFL09...** | 318 | 416 | 486 | 149 | 220 | 37.5 | 78 |
| **GFL11...** | 395 | 505 | 600 | 181 | 276.5 | 50 | 86 |
| **GFL14...** | 490 | 604 | 740 | 228 | 339 | 65 | 90 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GFL04...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| **GFL05...** | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| **GFL06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GFL07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GFL09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GFL11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | 8 x 17.5 |
| **GFL14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | |

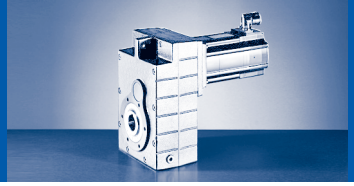
d ≤ 50 mm: k6; d > 50 mm: m6




## GFL□□-3A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 486 | 494 | 562 | | | | | | |
| GFL06... | k | 516 | 524 | 592 | | | | | | |
| GFL07... | k | 560 | 568 | 636 | 618 | | 680 | | | |
| GFL09... | k | 612 | 620 | 688 | 670 | | 732 | | 709 | |
| GFL11... | k | 672 | 680 | 748 | 730 | | 792 | | 769 | |
| GFL14... | k | | | | 809 | | 871 | | 848 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-3A H□R ... RSO

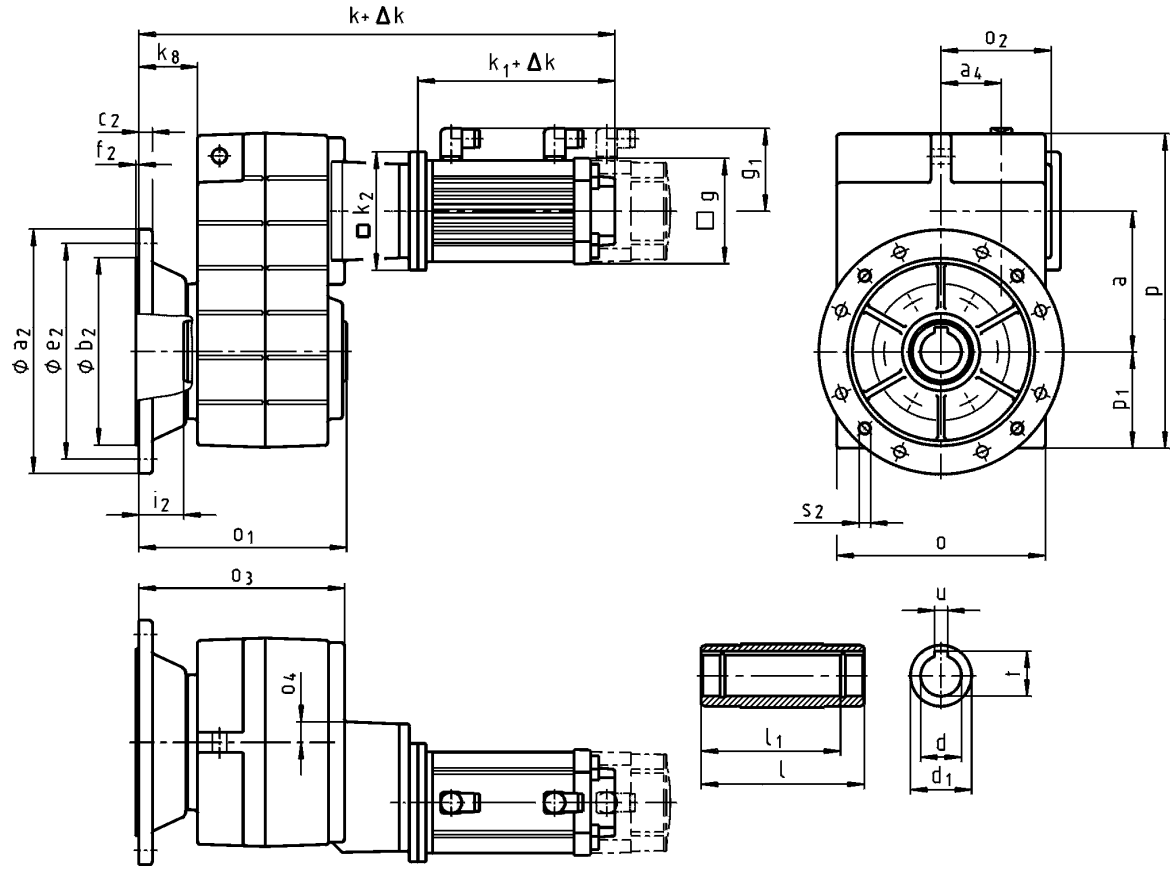
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 798 | | | | | | | | | |
| GFL11... | k | 858 | | 838 | | 935 | | 916 | | 1012 | |
| GFL14... | k | 937 | | 917 | | 1014 | | 995 | | 1091 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-3A H□R

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 140 | 107 | 141 | 23 | 252 | 78 | 112.5 | 54.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 160 | 111 | 160 | 20 | 315 | 98 | 140 | 58 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 200 | 135 | 199 | 24 | 386 | 118 | 173 | 74 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 240 | 170 | 238 | 27 | 486 | 149 | 220 | 93.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 290 | 216 | 285 | 34 | 600 | 181 | 276.5 | 120 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 350 | 271 | 340 | 38 | 740 | 228 | 339 | 154 | 80 | 455 | 50 | 32 | 100 | 114 |

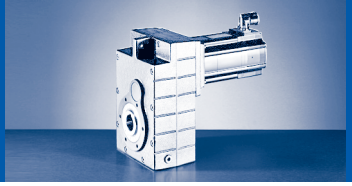
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GFL05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 240 | 140 | 205 | | 6 | M20x32 |
| | 80 | | | | 22 | 85.4 | | | | | | |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |




## GFL□□-3A HCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 519 | 528 | 596 | | | | | | |
| GFL06... | k | 558 | 567 | 635 | | | | | | |
| GFL07... | k | 615 | 624 | 692 | 674 | | 736 | | | |
| GFL09... | k | 672 | 681 | 749 | 731 | | 793 | | 770 | |
| GFL11... | k | 732 | 741 | 809 | 791 | | 853 | | 830 | |
| GFL14... | k | | | | 870 | | 932 | | 909 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-3A HCK ... RSO

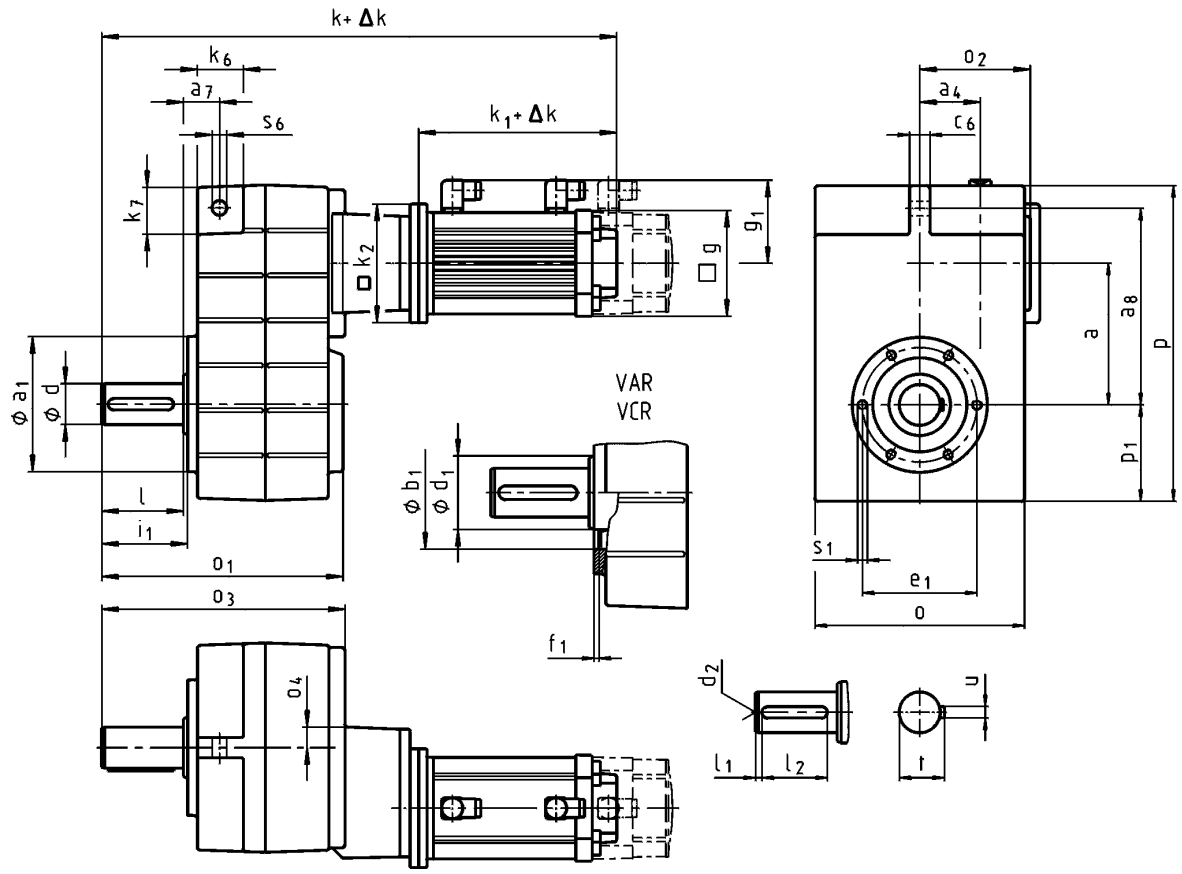
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 859 | | | | | | | | | |
| GFL11... | k | 919 | | 898 | | 995 | | 977 | | 1073 | |
| GFL14... | k | 998 | | 977 | | 1074 | | 1056 | | 1152 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-3A HCK

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 173 | 107 | 174 | 23 | 252 | 78 | 112.5 | 54.5 | 46 |
| **GFL06...** | 206 | 201 | 111 | 201 | 20 | 315 | 98 | 140 | 58 | 56 |
| **GFL07...** | 256 | 255 | 135 | 254 | 24 | 386 | 118 | 173 | 74 | 73 |
| **GFL09...** | 318 | 300 | 170 | 298 | 27 | 486 | 149 | 220 | 93.5 | 78 |
| **GFL11...** | 395 | 350 | 216 | 345 | 34 | 600 | 181 | 276.5 | 120 | 86 |
| **GFL14...** | 490 | 410 | 271 | 400 | 38 | 740 | 228 | 339 | 154 | 90 |

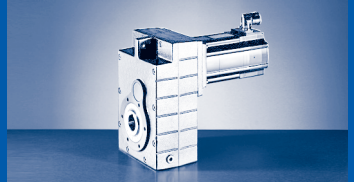
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GFL05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GFL06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GFL07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GFL09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GFL11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GFL14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |




## GFL□□-3A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 546 | 554 | 622 | | | | | | |
| GFL06... | k | 596 | 604 | 672 | | | | | | |
| GFL07... | k | 660 | 668 | 736 | 718 | | 780 | | | |
| GFL09... | k | 732 | 740 | 808 | 790 | | 852 | | 829 | |
| GFL11... | k | 832 | 840 | 908 | 890 | | 952 | | 929 | |
| GFL14... | k | | | | 1009 | | 1071 | | 1048 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-3A V□R ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 918 | | | | | | | | | |
| GFL11... | k | 1018 | | 998 | | 1095 | | 1076 | | 1172 | |
| GFL14... | k | 1137 | | 1117 | | 1214 | | 1195 | | 1291 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

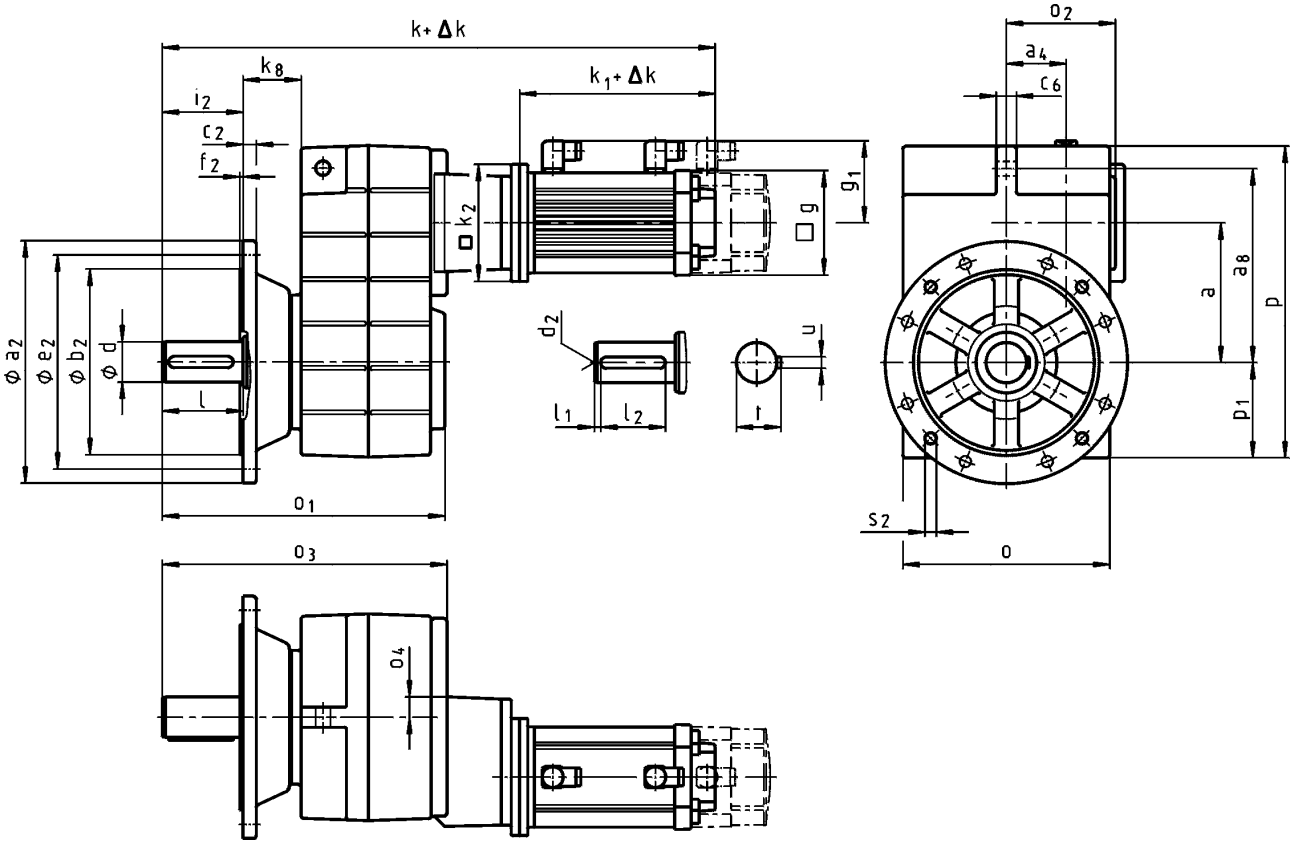
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GFL□□-3A V□R

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $a_7$ | $a_8$ | $c_6$ | $s_6$ | $k_6$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 197 | 107 | 201 | 23 | 252 | 78 | 112.5 | 54.5 | 29 | 155 | 16 | 14 | 35 | 38 |
| **GFL06...** | 206 | 236 | 111 | 240 | 20 | 315 | 98 | 140 | 58 | 35 | 195 | 20 | | 46 | 46 |
| **GFL07...** | 256 | 296 | 135 | 299 | 24 | 386 | 118 | 173 | 74 | 44 | 240 | 25 | 18 | 56 | 56 |
| **GFL09...** | 318 | 356 | 170 | 358 | 27 | 486 | 149 | 220 | 93.5 | 50 | 300 | 32 | 22 | 70 | 70 |
| **GFL11...** | 395 | 445 | 216 | 445 | 34 | 600 | 181 | 276.5 | 120 | 65 | 375 | 40 | 26 | 84 | 90 |
| **GFL14...** | 490 | 544 | 271 | 540 | 38 | 740 | 228 | 339 | 154 | 80 | 455 | 50 | 32 | 100 | 114 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GFL05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GFL06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GFL07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GFL09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GFL11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GFL14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

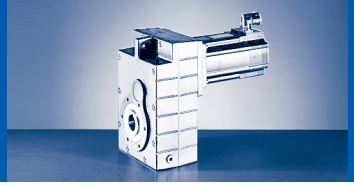
d ≤ 50 mm: k6; d > 50 mm: m6




## GFL□□-3A VCK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL05... | k | 579 | 588 | 656 | | | | | | |
| GFL06... | k | 637 | 646 | 714 | | | | | | |
| GFL07... | k | 715 | 724 | 792 | 774 | | 836 | | | |
| GFL09... | k | 792 | 801 | 869 | 851 | | 913 | | 890 | |
| GFL11... | k | 892 | 901 | 969 | 951 | | 1013 | | 990 | |
| GFL14... | k | | | | 1070 | | 1132 | | 1109 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GFL□□-3A VCK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL09... | k | 979 | | | | | | | | | |
| GFL11... | k | 1079 | | 1058 | | 1155 | | 1137 | | 1233 | |
| GFL14... | k | 1198 | | 1177 | | 1274 | | 1256 | | 1352 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

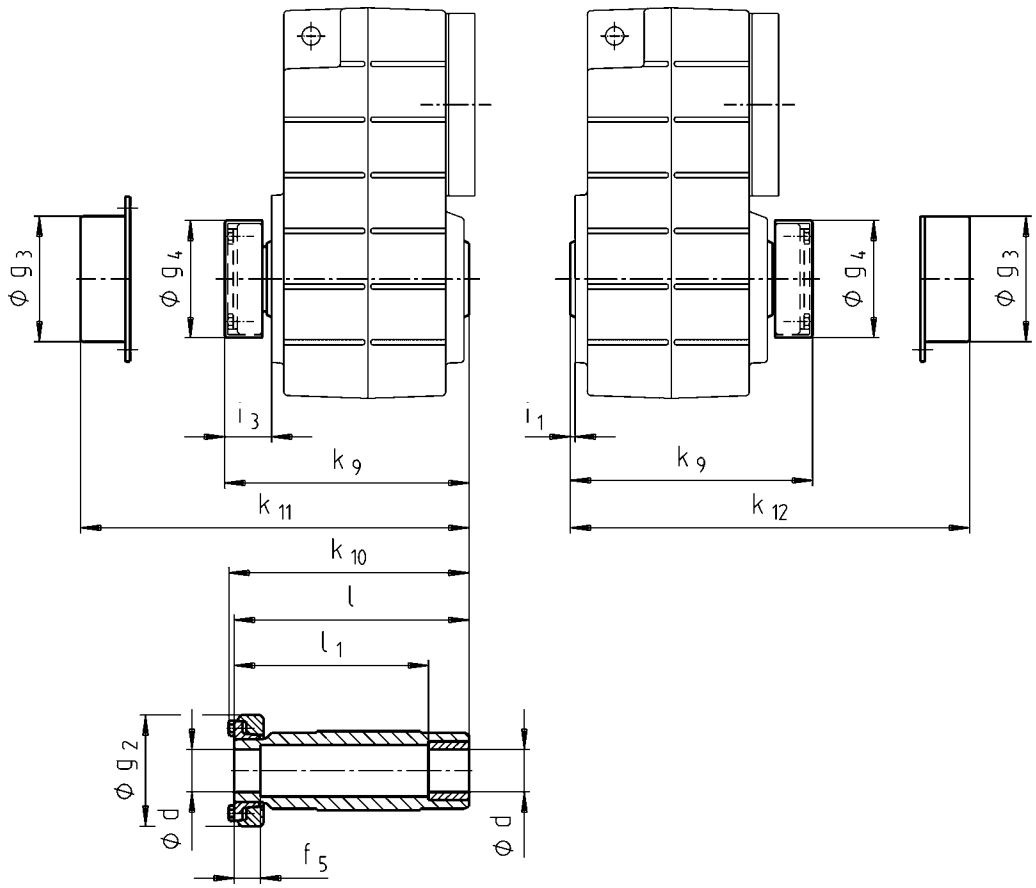
## GFL□□-3A VCK

| | o | $o_1$ | $o_2$ | $o_3$ | $o_4$ | p | $p_1$ | a | $a_4$ | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GFL05...** | 165 | 230 | 107 | 234 | 23 | 252 | 78 | 112.5 | 54.5 | 46 |
| **GFL06...** | 206 | 277 | 111 | 281 | 20 | 315 | 98 | 140 | 58 | 56 |
| **GFL07...** | 256 | 351 | 135 | 354 | 24 | 386 | 118 | 173 | 74 | 73 |
| **GFL09...** | 318 | 416 | 170 | 418 | 27 | 486 | 149 | 220 | 93.5 | 78 |
| **GFL11...** | 395 | 505 | 216 | 505 | 34 | 600 | 181 | 276.5 | 120 | 86 |
| **GFL14...** | 490 | 604 | 271 | 600 | 38 | 740 | 228 | 339 | 154 | 90 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GFL05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| **GFL06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GFL07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GFL09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GFL11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| **GFL14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

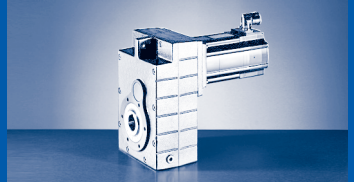
d ≤ 50 mm: k6; d > 50 mm: m6

## Hohlwelle mit Schrumpfscheibe




| | Maschinenwelle | Hohlwelle mit Schrumpfscheibe | | | | | | Schutzkappe | | | Abdeckhaube | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | $i_1$ | $k_{10}$ | $g_2$ | l | $l_1$ | $f_5$ | $i_3$ | $k_9$ | $g_4$ | $k_{11}$ | $k_{12}$ | $g_3$ |
| | h6 | | | | | | | | | | | | |
| GFL04... | 25<br>30 | 2.5 | 148 | 72 | 142 | 122 | 26 | 37 | 150 | 76 | 154 | 154 | 79 |
| GFL05... | 35 | 4 | 174 | 80 | 168 | 148 | 28 | 39.5 | 176 | 84 | 179 | 180 | 90 |
| GFL06... | 40 | 5 | 200 | 90 | 194 | 164 | 30 | 46.5 | 202 | 94 | 204 | 205 | 100 |
| GFL07... | 50 | | 238 | 110 | 232 | 192 | 26 | 45.5 | 241 | 116 | 244 | 245 | 124 |
| GFL09... | 65 | | 285 | 141 | 278 | 228 | 30 | 53 | 288 | 147 | 287 | 288 | 159 |
| GFL11... | 80 | 6 | 344 | 170 | 338 | 238 | 42 | 63 | 347 | 176 | 349 | 350 | 191 |
| GFL14... | 100 | 7 | 415 | 215 | 407 | 307 | 55 | 75 | 418 | 221 | 421 | 422 | 253 |

► Bei Schrumpfscheibenausführungen auf ausreichende Festigkeit des Wellenwerkstoffes achten.
Bei Verwendung üblicher Stähle (z. B. C45, 42CrMo4) können die in den Auswahltabellen genannten Momente uneingeschränkt übertragen werden.
Bei Verwendung von Werkstoffen mit wesentlich geringerer Festigkeit bitten wir um Rücksprache. Die mittlere Rautiefe Rz sollte 15 µm nicht überschreiten (Drehbearbeitung ist ausreichend).



## Kombinationsmöglichkeiten der Schrumpfscheibe in Lage 1 (Antriebsseite)

### GFL□□-2S mit Motorgröße

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL04... | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | | | | | | | |
| GFL05... | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | | | | | | | |
| GFL06... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL07... | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL09... | | | | | | | | ● | ● | ● | ● | ● | ● | ● |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| GFL07... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL09... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL11... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL14... | | | | | | | | | ● | ● | ● | ● | ● | ● |

### GFL□□-2A mit Motorgröße

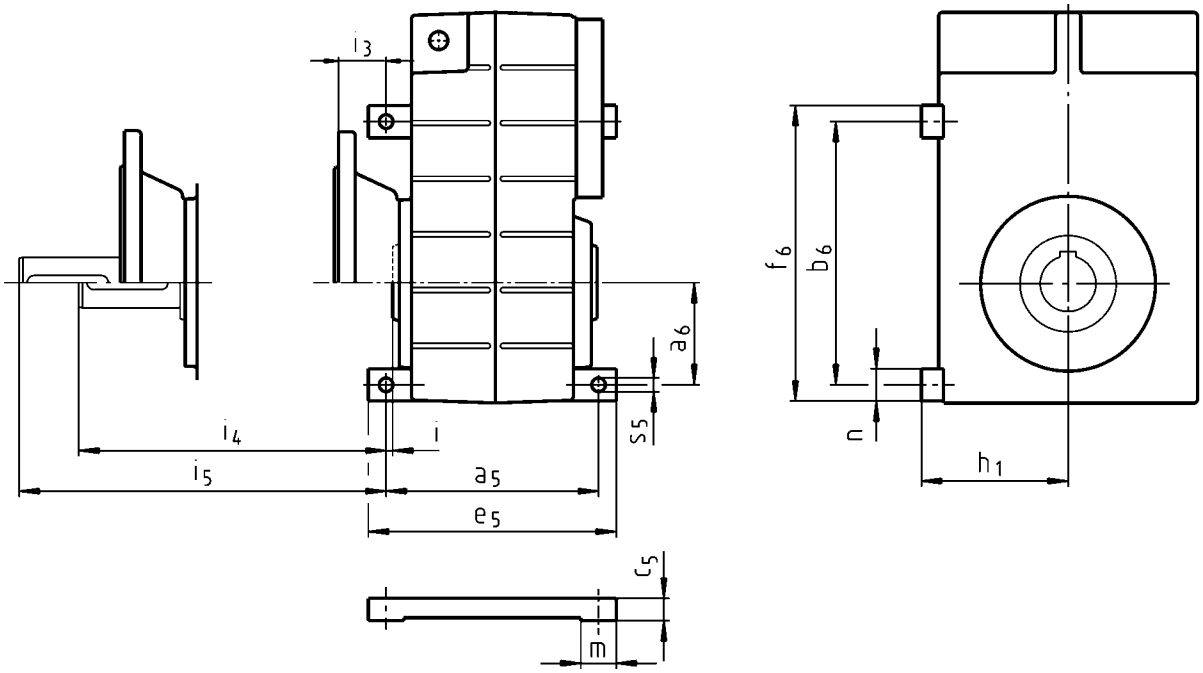
| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GFL06... | ● | ● | ● | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) | ● 1) |
| GFL07... | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL09... | | | | ● | ● | ● | ● | ● | ● |
| GFL11... | | | | ● | ● | ● | ● | ● | ● |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GFL06... | ● 1) | ● 1) | | | | | | | | |
| GFL07... | ● | ● | ● 1) | ● 1) | ● 1) | ● 1) | | | | |
| GFL09... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL11... | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| GFL14... | | | ● | ● | ● | ● | ● | ● | ● | ● |

1) Nur ohne Abdeckhaube möglich.

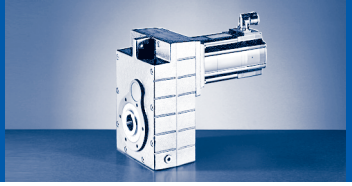
► GFL□□-2S: Klemmenkasten in Lage 4 nur auf Anfrage!
GFL□□-2A: Stecker/Klemmenkasten in Lage 4 nicht möglich!
GFL□□-3□: Alle Ausführungen sind möglich.

## Fußbefestigung in Lage 3

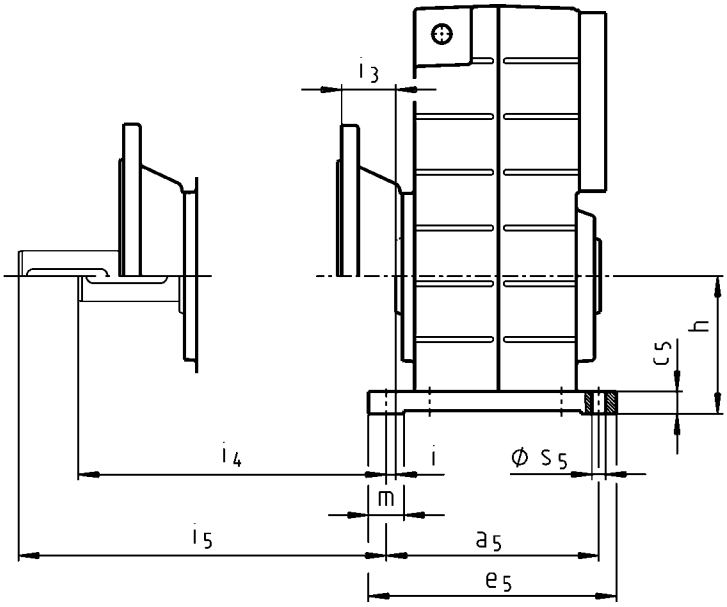


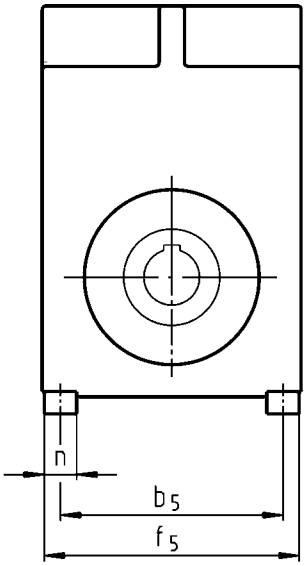

| | | | HAR HBR SAR SBR | HAK SAK | VAR VBR | VAK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $a_6$ | $h_1$ | i | $i_3$ | $i_4$ | $i_5$ | $a_5$ | $b_6$ | $c_5$ | $e_5$ | $f_6$ | n | m | $s_5$ |
| **GFL04...** | 47 | 90 | 4.5 | 28.5 | 45.5 | 78.5 | 130 | 115 | 18 | 152 | 140 | 25 | 22 | 6.6 |
| **GFL05...** | 65 | 100 | 2 | 31 | 58 | 91 | 160 | 167 | 21 | 185 | 192 | | 25 | 9 |
| **GFL06...** | 80 | 125 | | 39 | 78 | 119 | 175 | 205 | 27 | 205 | 233 | 28 | 30 | 11 |
| **GFL07...** | 100 | 155 | 3 | 52 | 97 | 152 | 220 | 260 | 31 | 255 | 292 | 32 | 35 | 13.5 |
| **GFL09...** | 125 | 190 | | 57 | 117 | 177 | 260 | 335 | 36 | 300 | 375 | 40 | 40 | 17.5 |
| **GFL11...** | 155 | 240 | | | 157 | 217 | 315 | 435 | 48 | 365 | 485 | 50 | 50 | 22 |
| **GFL14...** | 200 | 295 | | | 197 | 257 | 375 | 540 | 57 | 430 | 600 | 60 | 55 | 26 |

► Bei GFL04...06-2A ist Klemmenkastenlage 3 nicht möglich!



## Fußbefestigung in Lage 4

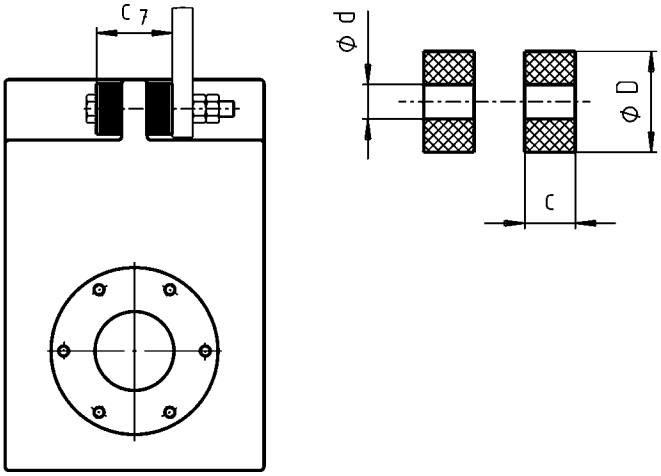


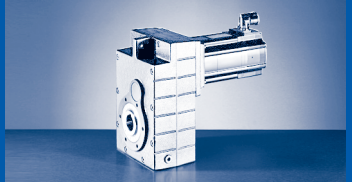

| | | HAR HBR SAR SBR | HAK SAK | VAR VBR | VAK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h | i | $i_3$ | $i_4$ | $i_5$ | $a_5$ | $b_5$ | $c_5$ | $e_5$ | $f_5$ | n | m | $s_5$ |
| GFL04... | 85 | 4.5 | 28.5 | 45.5 | 78.5 | 130 | 108 | 18 | 152 | 133 | 25 | 22 | 6.6 |
| GFL05... | 95 | 2 | 31 | 58 | 91 | 160 | 140 | 21 | 185 | 165 | | 25 | 9 |
| GFL06... | 120 | | 39 | 78 | 119 | 175 | 175 | 27 | 205 | 203 | 28 | 30 | 11 |
| GFL07... | 145 | 3 | 52 | 97 | 152 | 220 | 220 | 31 | 255 | 252 | 32 | 35 | 13.5 |
| GFL09... | 180 | | 57 | 117 | 177 | 260 | 275 | 36 | 300 | 315 | 40 | 40 | 17.5 |
| GFL11... | 224 | | | 157 | 217 | 315 | 340 | 48 | 365 | 390 | 50 | 50 | 22 |
| GFL14... | 278 | | | 197 | 257 | 375 | 425 | 57 | 430 | 485 | 60 | 55 | 26 |

► Bei Einbaulage E und F liegt die Ölkontrollbohrung/das Ölschauglas zwischen den Füßen in Lage 4!

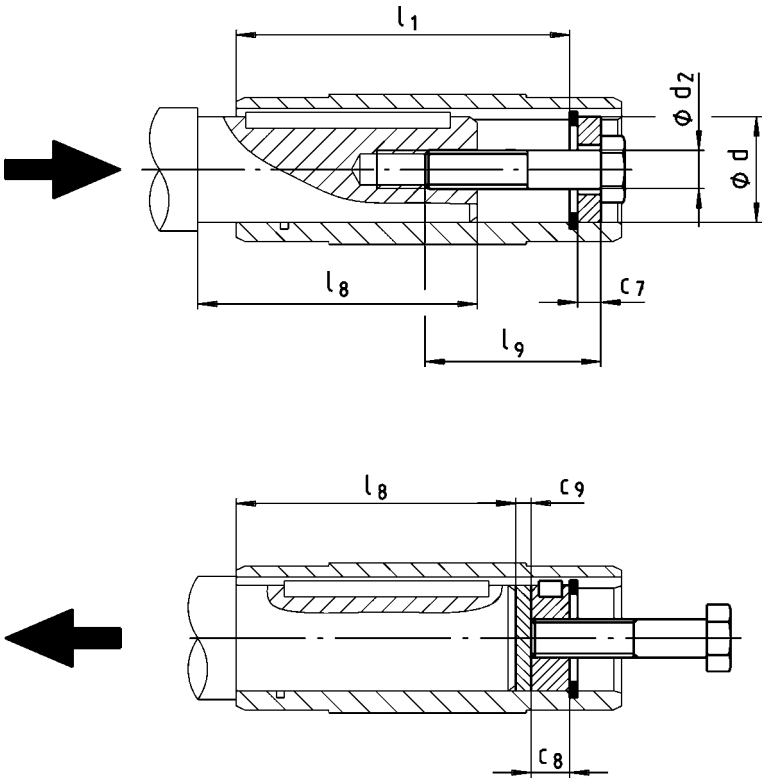
## Gummipuffer für Drehmomentabstützung



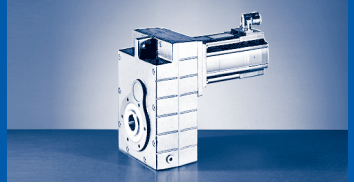

| | d | D | c | $c_7$ |
|---|---|---|---|---|
| **GFL04...** | 11 | 30 | 14.5 | 43 |
| **GFL05...** | | | | 45 |
| **GFL06...** | 13 | 40 | 15 | 50 |
| **GFL07...** | 17 | 50 | 27 | 79 |
| **GFL09...** | 21 | 60 | 28 | 88 |
| **GFL11...** | 26 | 72 | 29 | 98 |
| **GFL14...** | 33 | 92 | 30 | 110 |

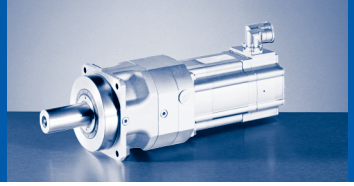


## Montagesatz Hohlwellensicherung - Gestaltungsvorschlag für Hilfswerkzeuge




| | Hohlwelle | | Montagesatz Hohlwellensicherung (Hilfswerkzeug Montage) | | | Hilfswerkzeug Demontage | | Maschinenwelle |
|---|---|---|---|---|---|---|---|---|
| | d | $l_1$ | $d_2$ | $l_9$ | $c_7$ | $c_8$ | $c_9$ | max $l_8$ |
| | H7 | | | | | | | |
| GFL04... | 25 | 100 | M10 | 40 | 5 | 10 | 3 | 85 |
| | 30 | | | | 6 | | | |
| GFL05... | | 124 | | | | | | 107 |
| | 35 | | M12 | 50 | 7 | 12 | | |
| GFL06... | 40 | 140 | M16 | 60 | 8 | 16 | 4 | 118 |
| | 45 | | | | 9 | | | |
| GFL07... | 50 | 175 | | | 10 | | 5 | 148 |
| | 55 | | M20 | 80 | 11 | 20 | | |
| GFL09... | 60 | 210 | | | 13 | | | 182 |
| | 70 | | | | 14 | | | |
| GFL11... | | 250 | | | | | 6 | 221 |
| | 80 | | | | 16 | | | |
| GFL14... | 100 | 305 | M24 | 100 | 20 | 24 | 8 | 270 |

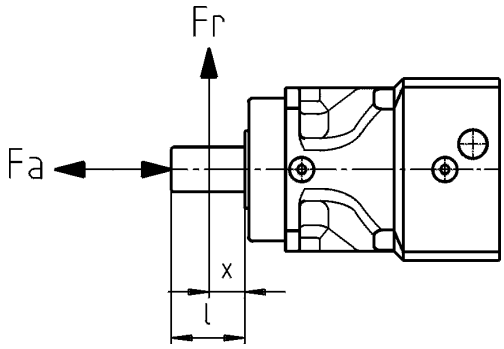




**Zulässige Radialkraft**
$Fr_{zul} = Fr_{Tab}$ bei Fa = 0

**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0

Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung



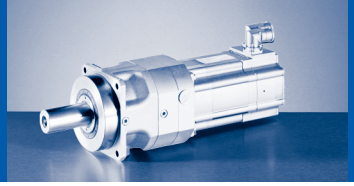

| | Vollwelle mit Flansch (GCN)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GPA00-1/2 | | GPA01-1/2 | | GPA02-1/2 | | GPA03-1/2 | | GPA04-1/2 | | GPA05-1/2 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 1550 | | 2325 | | 3700 | | 4950 | | 7170 | | 11390 | 22500 |
| **900** | 1600 | | 2400 | | 3825 | | 5125 | | 7400 | | 11750 | |
| **800** | 1675 | | 2475 | | 3950 | | 5300 | | 7670 | | 12180 | |
| **700** | 1725 | | 2600 | | 4125 | | 5525 | | 7980 | | 12680 | |
| **600** | 1825 | | 2700 | | 4325 | | 5775 | | 8360 | | 13280 | |
| **500** | 1925 | 2300 | 2850 | 3200 | 4550 | 5400 | 6100 | 9400 | 8830 | 13500 | 14020 | 22500 |
| **400** | 2050 | | 3050 | | 4875 | | 6525 | | 9450 | | 15000 | |
| **300** | 2250 | | 3350 | | 5300 | | 7100 | | 10300 | | 16350 | |
| **200** | 2525 | | 3775 | | 6000 | | 8025 | | 11630 | | 18000 | |
| **≤ 100** | 2600 | | 3800 | | | | 9000 | | 14000 | | | |
| **$Fr_{max}$** | | | | | | | | | | | | |

## Verdrehspiel

| Getriebetyp | Verdrehspiel Standard (gemessen mit 2% vom Getriebe-Nennabtriebsmoment) | Getriebetyp | Verdrehspiel Standard (gemessen mit 2% vom Getriebe-Nennabtriebsmoment) |
|---|---|---|---|
| | [arcmin] | | [arcmin] |
| **GPA00-1** | max. 6 | **GPA00-2** | max. 8 |
| **GPA01-1** | | **GPA01-2** | |
| **GPA02-1** | | **GPA02-2** | |
| **GPA03-1** | | **GPA03-2** | |
| **GPA04-1** | | **GPA04-2** | |
| **GPA05-1** | | **GPA05-2** | |

## Verdrehsteifigkeit

| Getriebetyp | Verdrehsteifigkeit | Getriebetyp | Verdrehsteifigkeit |
|---|---|---|---|
| | [Nm/arcmin] | | [Nm/arcmin] |
| **GPA00-1** | 3 | **GPA00-2** | 2.8 |
| **GPA01-1** | 8.8 | **GPA01-2** | 8 |
| **GPA02-1** | 23 | **GPA02-2** | 20 |
| **GPA03-1** | 47 | **GPA03-2** | 42 |
| **GPA04-1** | 145 | **GPA04-2** | 125 |
| **GPA05-1** | 225 | **GPA05-2** | 195 |



## GPA□□-1S GCN...RSO B0

| | 06C N41 | 06F N41 | 06I N41 | 09D N41 | 09F N38 | 09H N41 | 09L N41 | 12D N20 | 12D N41 | 12H N15 | 12H N30 | 12H N35 | 12L N20 | 12L N41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA00... | 4 | | 5 | 6 | 7 | 8 | 10 | | | | | | | |
| GPA01... | 5 | 6 | | 8 | 9 | 10 | 11 | 10 | | 13 | | | 16 | |
| GPA02... | | | | 11 | 12 | 13 | 14 | 13 | | 16 | | | 19 | |
| GPA03... | | | | | | | | 21 | | 24 | | | 27 | |

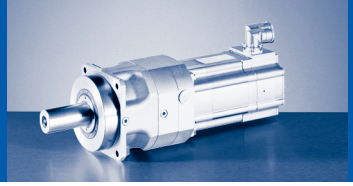
| | 14D N15 | 14D N36 | 14H N15 | 14H N32 | 14L N15 | 14L N32 | 14P N14 | 14P N32 | 19F N14 | 19F N30 | 19J N14 | 19J N30 | 19P N14 | 19P N30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA02... | 17 | | 22 | | 27 | | 31 | | | | | | | |
| GPA03... | 25 | | 30 | | 34 | | 39 | | 37 | | 44 | | 54 | |
| GPA04... | | | | | | | | | 53 | | 60 | | 70 | |
| GPA05... | | | | | | | | | 68 | | 75 | | 85 | |

## GPA□□-2S GCN...RSO B0

| | 06C N41 | 06F N41 | 06I N41 | 09D N41 | 09F N38 | 09H N41 | 09L N41 | 12D N20 | 12D N41 | 12H N15 | 12H N30 | 12H N35 | 12L N20 | 12L N41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA00... | 5 | | 6 | | | | | | | | | | | |
| GPA01... | 6 | 7 | | 9 | 10 | 11 | 12 | | | | | | | |
| GPA02... | | | | 13 | 14 | 15 | 17 | 15 | | 18 | | | 21 | |
| GPA03... | | | | | | | | 26 | | 30 | | | 33 | |

| | 14D N15 | 14D N36 | 14H N15 | 14H N32 | 14L N15 | 14L N32 | 14P N14 | 14P N32 | 19F N14 | 19F N30 | 19J N14 | 19J N30 | 19P N14 | 19P N30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA03... | 31 | | 36 | | 40 | | 45 | | | | | | | |
| GPA04... | | | | | | | | | 62 | | 69 | | 79 | |
| GPA05... | | | | | | | | | 90 | | 97 | | 107 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



# GPA [kg]

## GPA□□-1A GCN...RSO B0

| | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GPA00... | 9 | | | | | | | | |
| GPA01... | 10 | 14 | 15 | | | | | | |
| GPA02... | 13 | 17 | 19 | 22 | | 24 | | 29 | |
| GPA03... | | 26 | 27 | 30 | | 32 | | 38 | |

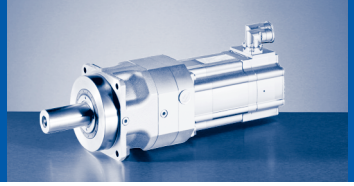
| | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GPA01... | | | | | | | | | | |
| GPA02... | 32 | | | | | | | | | |
| GPA03... | 41 | | 60 | | 63 | | 75 | | 79 | |
| GPA04... | | | 75 | | 78 | | 90 | | 94 | |
| GPA05... | | | 90 | | 94 | | 105 | | 109 | |

## GPA□□-2A GCN...RSO B0

| | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GPA00... | 9 | | | | | | | | |
| GPA01... | 11 | 15 | 16 | | | | | | |
| GPA02... | | 19 | 21 | 24 | | 26 | | 32 | |
| GPA03... | | | | | | | | | |

| | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GPA02... | 34 | | | | | | | | | |
| GPA03... | | | 65 | | 68 | | | | | |
| GPA04... | | | 84 | | 88 | | 99 | | 103 | |
| GPA05... | | | 111 | | 115 | | 126 | | 130 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



## Mehrgewichte Servomotoren MCS

| | 06C N41 | 06F N41 | 06I N41 | 09D N41 | 09F N38 | 09H N41 | 09L N41 | 12D N20 | 12D N41 | 12H N15 | 12H N30 | 12H N35 | 12L N20 | 12L N41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D N15 | 14D N36 | 14H N15 | 14H N32 | 14L N15 | 14L N32 | 14P N14 | 14P N32 | 19F N14 | 19F N30 | 19J N14 | 19J N30 | 19P N14 | 19P N30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | | 1.5 | | | | | |
| ...P2 | 3.1 | | | | | | | | | | 4.3 | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.3 | | | | | | | | | | | | | |

## Mehrgewichte Servomotoren MCA

| | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | |

| | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | 2.4 | | 4.8 | | | | 5.0 | | | |
| ...P2/P6 | | | | | | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.7 | | 1.0 | | | | 1.1 | | | |

Gewichte in [kg]

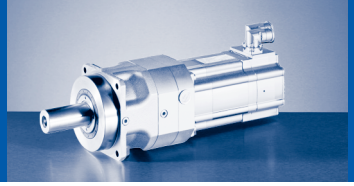
## $M_{2\,GN} \leq 25$ Nm

| GPA00-1S | | | | 06CN41 | 06FN41 | 06IN41 | 09FN38 | 09HN41 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 3.10 | 3.80 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 5.0 | 6.8 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.5 | 3.4 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.20 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.53 | 1.93 |
| 3.000 | 20 | 0.22 | $M_2$ | | 4 | 4 | | |
| | | | c | | 5.8 | 4.6 | | |
| | | | $n_{2\,Eck}$ | | 1350 | 1350 | | |
| | | | $n_{2\,th}$ | | 867 | 867 | | |
| 4.000 | 25 | 0.16 | $M_2$ | | 5 | 6 | 12 | 15 |
| | | | c | | 5.4 | 4.4 | 2.1 | 1.7 |
| | | | $n_{2\,Eck}$ | | 1013 | 1013 | 938 | 1013 |
| | | | $n_{2\,th}$ | | 825 | 825 | 825 | 825 |
| 5.000 | 25 | 0.13 | $M_2$ | | 6 | 7 | 15 | 19 |
| | | | c | | 4.3 | 3.5 | 1.7 | 1.4 |
| | | | $n_{2\,Eck}$ | | 810 | 810 | 750 | 810 |
| | | | $n_{2\,th}$ | | 660 | 660 | 660 | 660 |
| 7.000 | 25 | 0.12 | $M_2$ | | 8 | 10 | | |
| | | | c | | 3.1 | 2.5 | | |
| | | | $n_{2\,Eck}$ | | 579 | 579 | | |
| | | | $n_{2\,th}$ | | 571 | 571 | | |
| 10.000 | 15 | 0.11 | $M_2$ | 6 | 12 | 15 | | |
| | | | c | 2.5 | 1.3 | 1.0 | | |
| | | | $n_{2\,Eck}$ | 405 | 405 | 405 | | |
| | | | $n_{2\,th}$ | 400 | 400 | 400 | | |

| GPA00-2S | | | | 06CN41 | 06FN41 | 06IN41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 16.000 | 25 | 0.15 | $M_2$ | 9 | 18 | 23 |
| | | | c | 2.8 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 253 | 253 | 253 |
| | | | $n_{2\,th}$ | 253 | 253 | 253 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 70$ Nm

| GPA01-1S | | | | 06FN41 | 06IN41 | 09FN38 | 09HN41 | 12HN15 | 12HN35 | 12LN20 | 12LN41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 3.10 | 3.80 | 10.00 | 7.50 | 13.50 | 11.00 |
| | | | $n_1$ | 4050 | 4050 | 3750 | 4050 | 1500 | 3525 | 1950 | 4050 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 5.0 | 6.8 | 7.6 | | 11.8 | |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.5 | 3.4 | 3.8 | 5.7 | 5.9 | 10.2 |
| | | | $P_N$ | 0.51 | 0.64 | 1.20 | 1.60 | 1.60 | 2.80 | 2.80 | 4.70 |
| | | | $J_M$ | 0.25 | 0.33 | 1.53 | 1.93 | 7.42 | 7.42 | 10.72 | 10.72 |
| 3.000 | 56 | 0.71 | $M_2$ | | | | | 29 | 22 | 40 | 32 |
| | | | c | | | | | 1.9 | 2.6 | 1.4 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | | 500 | 1175 | 650 | 1350 |
| | | | $n_{2\,th}$ | | | | | 500 | 767 | 650 | 767 |
| 4.000 | 70 | 0.52 | $M_2$ | | | | | 39 | 29 | 53 | 43 |
| | | | c | | | | | 1.8 | 2.4 | 1.3 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | | 375 | 881 | 488 | 1013 |
| | | | $n_{2\,th}$ | | | | | 375 | 725 | 488 | 725 |
| 7.000 | 70 | 0.39 | $M_2$ | | | 21 | 26 | 68 | 51 | | |
| | | | c | | | 3.3 | 2.7 | 1.0 | 1.4 | | |
| | | | $n_{2\,Eck}$ | | | 536 | 579 | 214 | 504 | | |
| | | | $n_{2\,th}$ | | | 443 | 443 | 214 | 443 | | |
| 10.000 | 45 | 0.36 | $M_2$ | 12 | 15 | 30 | 37 | | | | |
| | | | c | 3.9 | 3.1 | 1.5 | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 405 | 405 | 375 | 405 | | | | |
| | | | $n_{2\,th}$ | 310 | 310 | 310 | 310 | | | | |

| GPA01-2S | | | | 06CN41 | 06FN41 | 06IN41 | 09FN38 | 09HN41 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 3.10 | 3.80 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 5.0 | 6.8 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.5 | 3.4 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.20 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.53 | 1.93 |
| 16.000 | 70 | 0.16 | $M_2$ | | 18 | 23 | 47 | 58 |
| | | | c | | 3.9 | 3.1 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | | 253 | 253 | 234 | 253 |
| | | | $n_{2\,th}$ | | 219 | 219 | 219 | 219 |
| 20.000 | 70 | 0.14 | $M_2$ | | 23 | 29 | | |
| | | | c | | 3.1 | 2.5 | | |
| | | | $n_{2\,Eck}$ | | 203 | 203 | | |
| | | | $n_{2\,th}$ | | 175 | 175 | | |
| 28.000 | 70 | 0.12 | $M_2$ | 16 | 32 | 40 | | |
| | | | c | 4.4 | 2.2 | 1.8 | | |
| | | | $n_{2\,Eck}$ | 145 | 145 | 145 | | |
| | | | $n_{2\,th}$ | 136 | 136 | 136 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

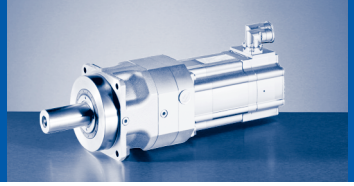
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 170$ Nm

| GPA02-1S | | | | 09FN38 | 09HN41 | 12HN15 | 12HN35 | 12LN20 | 12LN41 | 14DN15 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 3.10 | 3.80 | 10.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 3750 | 4050 | 1500 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 5.0 | 6.8 | 7.6 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.5 | 3.4 | 3.8 | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.20 | 1.60 | 1.60 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.53 | 1.93 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 3.000 | 135 | 3.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 27<br>5.0<br>500<br>500 |
| 4.000 | 0 | 2.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 38<br>4.3<br>375<br>0 | | | | |
| 4.000 | 170 | 2.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 53<br>3.2<br>488<br>488 | 43<br>4.0<br>1013<br>625 | 36<br>4.7<br>375<br>375 |
| 5.000 | 170 | 1.52 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 49<br>3.5<br>300<br>300 | 37<br>4.6<br>705<br>500 | 66<br>2.6<br>390<br>390 | 54<br>3.2<br>810<br>500 | 45<br>3.8<br>300<br>300 |
| 7.000 | 170 | 1.69 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 68<br>2.5<br>214<br>214 | 51<br>3.3<br>504<br>400 | 92<br>1.9<br>279<br>279 | 75<br>2.3<br>579<br>400 | 63<br>2.7<br>214<br>214 |
| 10.000 | 110 | 1.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 30<br>3.6<br>375<br>280 | 37<br>3.0<br>405<br>280 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 170$ Nm

| 14DN36 | 14HN15 | 14HN32 | 14LN15 | 14LN32 | 14PN14 | 14PN32 | GPA02-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | 47<br>2.9<br>500<br>500 | 41<br>3.3<br>1075<br>667 | 67<br>2.0<br>500<br>500 | 50<br>2.7<br>1075<br>667 | 88<br>1.5<br>450<br>450 | 61<br>2.2<br>1075<br>667 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.10 | 135 | 3.000 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.25 | 0 | 4.000 |
| | 62<br>2.7<br>375<br>375 | 55<br>3.1<br>806<br>625 | 90<br>1.9<br>375<br>375 | 67<br>2.5<br>806<br>625 | 117<br>1.5<br>338<br>338 | 82<br>2.1<br>806<br>625 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.25 | 170 | 4.000 |
| 37<br>4.6<br>720<br>500 | 78<br>2.2<br>300<br>300 | 68<br>2.5<br>645<br>500 | 112<br>1.5<br>300<br>300 | 84<br>2.0<br>645<br>500 | 146<br>1.2<br>270<br>270 | 102<br>1.7<br>645<br>500 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 170 | 5.000 |
| 51<br>3.3<br>514<br>400 | 109<br>1.6<br>214<br>214 | 96<br>1.8<br>461<br>400 | 157<br>1.1<br>214<br>214 | 117<br>1.5<br>461<br>400 | | 143<br>1.2<br>461<br>400 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.69 | 170 | 7.000 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.18 | 110 | 10.000 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

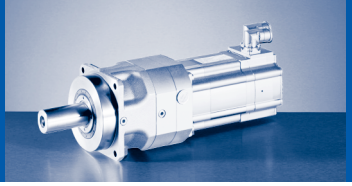
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 170$ Nm

| GPA02-2S | | | | 09FN38 | 09HN41 | 12HN15 | 12HN35 | 12LN41 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 3.10 | 3.80 | 10.00 | 7.50 | 11.00 |
| | | | $n_1$ | 3750 | 4050 | 1500 | 3525 | 4050 |
| | | | $I_{M\,230}$ | 5.0 | 6.8 | 7.6 | | |
| | | | $I_{M\,400}$ | 2.5 | 3.4 | 3.8 | 5.7 | 10.2 |
| | | | $P_N$ | 1.20 | 1.60 | 1.60 | 2.80 | 4.70 |
| | | | $J_M$ | 1.53 | 1.93 | 7.42 | 7.42 | 10.72 |
| 16.000 | 170 | 0.58 | $M_2$ | 47 | 58 | 152 | 114 | 167 |
| | | | c | 3.6 | 2.9 | 1.1 | 1.5 | 1.0 |
| | | | $n_{2\,Eck}$ | 234 | 253 | 94 | 220 | 253 |
| | | | $n_{2\,th}$ | 194 | 194 | 94 | 194 | 194 |
| 20.000 | 170 | 0.48 | $M_2$ | 59 | 72 | | | |
| | | | c | 2.9 | 2.4 | | | |
| | | | $n_{2\,Eck}$ | 188 | 203 | | | |
| | | | $n_{2\,th}$ | 155 | 155 | | | |
| 28.000 | 170 | 0.41 | $M_2$ | 83 | 101 | | | |
| | | | c | 2.1 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 134 | 145 | | | |
| | | | $n_{2\,th}$ | 125 | 125 | | | |
| 35.000 | 170 | 0.40 | $M_2$ | 103 | 126 | | | |
| | | | c | 1.7 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 107 | 116 | | | |
| | | | $n_{2\,th}$ | 100 | 100 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

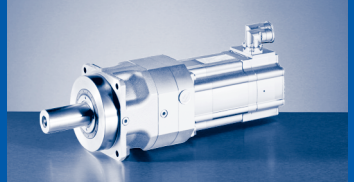


## $M_{2\,GN} \leq 360$ Nm

| GPA03-1S | | | | 12HN15 | 12HN35 | 12LN20 | 12LN41 | 14DN15 | 14DN36 | 14HN15 | 14HN32 | 14LN15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 10.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 |
| | | | $n_1$ | 1500 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 |
| | | | $I_{M\,230}$ | 7.6 | | 11.8 | | | | | | |
| | | | $I_{M\,400}$ | 3.8 | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 |
| | | | $P_N$ | 1.60 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 |
| | | | $J_M$ | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 |
| 3.000 | 290 | 9.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 4.000 | 360 | 6.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 5.000 | 360 | 5.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 7.000 | 360 | 3.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 109<br>3.3<br>214<br>214 | 96<br>3.8<br>461<br>371 | 157<br>2.3<br>214<br>214 |
| 10.000 | 220 | 3.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 98<br>2.3<br>150<br>150 | 73<br>3.0<br>353<br>260 | 132<br>1.7<br>195<br>195 | 107<br>2.1<br>405<br>260 | 90<br>2.5<br>150<br>150 | 73<br>3.0<br>360<br>260 | 156<br>1.4<br>150<br>150 | 137<br>1.6<br>323<br>260 | 224<br>1.0<br>150<br>150 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

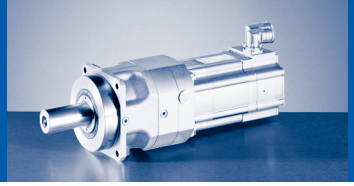


## $M_{2\,GN} \leq 360$ Nm

| 14LN32 | 14PN14 | 14PN32 | 19FN14 | 19FN30 | 19JN14 | 19JN30 | 19PN14 | 19PN30 | GPA03-1S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | $I_{M\,230}$ | | | |
| 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | 79 | 61 | 117 | 85 | 149 | 94 | $M_2$ | 9.31 | 290 | 3.000 |
| | | | 3.7 | 4.7 | 2.5 | 3.4 | 2.0 | 3.1 | c | | | |
| | | | 475 | 1000 | 475 | 1000 | 450 | 1000 | $n_{2\,Eck}$ | | | |
| | | | 475 | 567 | 475 | 567 | 450 | 567 | $n_{2\,th}$ | | | |
| | | | 105 | 82 | 156 | 113 | 199 | 125 | $M_2$ | 6.89 | 360 | 4.000 |
| | | | 3.4 | 4.4 | 2.3 | 3.2 | 1.8 | 2.9 | c | | | |
| | | | 356 | 750 | 356 | 750 | 338 | 750 | $n_{2\,Eck}$ | | | |
| | | | 356 | 525 | 356 | 525 | 338 | 525 | $n_{2\,th}$ | | | |
| | | | 132 | 102 | 195 | 141 | 249 | 156 | $M_2$ | 5.97 | 360 | 5.000 |
| | | | 2.7 | 3.5 | 1.9 | 2.6 | 1.5 | 2.3 | c | | | |
| | | | 285 | 600 | 285 | 600 | 270 | 600 | $n_{2\,Eck}$ | | | |
| | | | 285 | 420 | 285 | 420 | 270 | 420 | $n_{2\,th}$ | | | |
| 117 | 205 | 143 | 184 | 143 | 273 | 198 | 348 | 218 | $M_2$ | 3.90 | 360 | 7.000 |
| 3.1 | 1.8 | 2.5 | 2.0 | 2.5 | 1.3 | 1.8 | 1.0 | 1.7 | c | | | |
| 461 | 193 | 461 | 204 | 429 | 204 | 429 | 193 | 429 | $n_{2\,Eck}$ | | | |
| 371 | 193 | 371 | 204 | 371 | 204 | 371 | 193 | 371 | $n_{2\,th}$ | | | |
| 168 | | 205 | | | | | | | $M_2$ | 3.53 | 220 | 10.000 |
| 1.3 | | 1.1 | | | | | | | c | | | |
| 323 | | 323 | | | | | | | $n_{2\,Eck}$ | | | |
| 260 | | 260 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



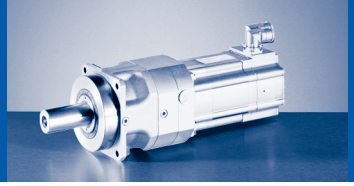


## $M_{2\,GN} \leq 360$ Nm

| GPA03-2S | | | | 12HN15 | 12HN35 | 12LN20 | 12LN41 | 14DN15 | 14DN36 | 14HN15 | 14HN32 | 14LN15 | 14LN32 | 14PN32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 10.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 21.00 |
| | | | $n_1$ | 1500 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 3225 |
| | | | $I_{M\,230}$ | 7.6 | | 11.8 | | | | | | | | |
| | | | $I_{M\,400}$ | 3.8 | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 15.6 |
| | | | $P_N$ | 1.60 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 7.10 |
| | | | $J_M$ | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.82 |
| 16.000 | 360 | 2.37 | $M_2$ | 152 | 114 | 205 | 167 | 140 | 114 | 243 | 213 | 350 | 261 | 319 |
| | | | c | 2.4 | 3.2 | 1.8 | 2.2 | 2.6 | 3.2 | 1.5 | 1.7 | 1.0 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 94 | 220 | 122 | 253 | 94 | 225 | 94 | 202 | 94 | 202 | 202 |
| | | | $n_{2\,th}$ | 94 | 181 | 122 | 181 | 94 | 181 | 94 | 181 | 94 | 181 | 181 |
| 20.000 | 360 | 2.02 | $M_2$ | 190 | 143 | 257 | 209 | 175 | 143 | 304 | 266 | | 327 | |
| | | | c | 1.9 | 2.5 | 1.4 | 1.7 | 2.1 | 2.5 | 1.2 | 1.4 | | 1.1 | |
| | | | $n_{2\,Eck}$ | 75 | 176 | 98 | 203 | 75 | 180 | 75 | 161 | | 161 | |
| | | | $n_{2\,th}$ | 75 | 145 | 98 | 145 | 75 | 145 | 75 | 145 | | 145 | |
| 28.000 | 360 | 1.74 | $M_2$ | 266 | 200 | 359 | 293 | | | | | | | |
| | | | c | 1.4 | 1.8 | 1.0 | 1.2 | | | | | | | |
| | | | $n_{2\,Eck}$ | 54 | 126 | 70 | 145 | | | | | | | |
| | | | $n_{2\,th}$ | 54 | 114 | 70 | 114 | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 620$ Nm

| GPA04-1S | | | | 19FN14 | 19FN30 | 19JN14 | 19JN30 | 19PN14 | 19PN30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 5.000 | 550 | 19.46 | $M_2$ | 132 | | 195 | 141 | 249 | 156 |
| | | | c | 4.2 | | 2.8 | 3.9 | 2.2 | 3.5 |
| | | | $n_{2\,Eck}$ | 285 | | 285 | 600 | 270 | 600 |
| | | | $n_{2\,th}$ | 285 | | 285 | 340 | 270 | 340 |
| 7.000 | 550 | 25.90 | $M_2$ | 184 | 143 | 273 | 198 | 348 | 218 |
| | | | c | 3.0 | 3.8 | 2.0 | 2.8 | 1.6 | 2.5 |
| | | | $n_{2\,Eck}$ | 204 | 429 | 204 | 429 | 193 | 429 |
| | | | $n_{2\,th}$ | 204 | 343 | 204 | 343 | 193 | 343 |
| 10.000 | 340 | 24.89 | $M_2$ | 263 | 205 | | | | 312 |
| | | | c | 1.3 | 1.7 | | | | 1.1 |
| | | | $n_{2\,Eck}$ | 143 | 300 | | | | 300 |
| | | | $n_{2\,th}$ | 143 | 240 | | | | 240 |
| 10.000 | 360 | 24.89 | $M_2$ | | | | 283 | | |
| | | | c | | | | 1.3 | | |
| | | | $n_{2\,Eck}$ | | | | 300 | | |
| | | | $n_{2\,th}$ | | | | 240 | | |

| GPA04-2S | | | | 19FN14 | 19FN30 | 19JN14 | 19JN30 | 19PN30 |
|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.04 |
| 16.000 | 550 | 7.33 | $M_2$ | | | 550 | | |
| | | | c | | | 1.0 | | |
| | | | $n_{2\,Eck}$ | | | 89 | | |
| | | | $n_{2\,th}$ | | | 89 | | |
| 16.000 | 620 | 7.33 | $M_2$ | 410 | 319 | | 441 | 486 |
| | | | c | 1.5 | 1.9 | | 1.4 | 1.3 |
| | | | $n_{2\,Eck}$ | 89 | 188 | | 188 | 188 |
| | | | $n_{2\,th}$ | 89 | 169 | | 169 | 169 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

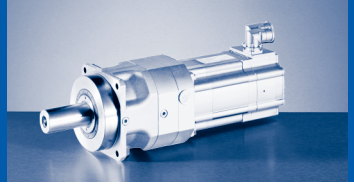
## $M_{2\,GN} \leq 1000$ Nm

| GPA05-1S | | | | 19FN14 | 19FN30 | 19JN14 | 19JN30 | 19PN14 | 19PN30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 7.000 | 1000 | 21.36 | $M_2$ | | | 273 | | 348 | |
| | | | c | | | 3.7 | | 2.9 | |
| | | | $n_{2\,Eck}$ | | | 204 | | 193 | |
| | | | $n_{2\,th}$ | | | 204 | | 193 | |
| 10.000 | 620 | 18.62 | $M_2$ | 263 | 205 | 390 | 283 | 497 | 312 |
| | | | c | 2.4 | 3.0 | 1.6 | 2.2 | 1.3 | 2.0 |
| | | | $n_{2\,Eck}$ | 143 | 300 | 143 | 300 | 135 | 300 |
| | | | $n_{2\,th}$ | 143 | 220 | 143 | 220 | 135 | 220 |

| GPA05-2S | | | | 19FN14 | 19FN30 | 19JN14 | 19JN30 | 19PN14 | 19PN30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 16.000 | 1000 | 23.39 | $M_2$ | 410 | 319 | 608 | 441 | 775 | 486 |
| | | | c | 2.4 | 3.1 | 1.6 | 2.3 | 1.3 | 2.1 |
| | | | $n_{2\,Eck}$ | 89 | 188 | 89 | 188 | 84 | 188 |
| | | | $n_{2\,th}$ | 89 | 156 | 89 | 156 | 84 | 156 |
| 20.000 | 1000 | 20.08 | $M_2$ | 513 | 399 | 760 | 551 | 969 | 608 |
| | | | c | 2.0 | 2.5 | 1.3 | 1.8 | 1.0 | 1.6 |
| | | | $n_{2\,Eck}$ | 71 | 150 | 71 | 150 | 68 | 150 |
| | | | $n_{2\,th}$ | 71 | 125 | 71 | 125 | 68 | 125 |
| 28.000 | 1000 | 26.22 | $M_2$ | 718 | 559 | 1000 | 771 | | 851 |
| | | | c | 1.4 | 1.8 | 1.0 | 1.3 | | 1.2 |
| | | | $n_{2\,Eck}$ | 51 | 107 | 51 | 107 | | 107 |
| | | | $n_{2\,th}$ | 51 | 89 | 51 | 89 | | 89 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 25$ Nm

| GPA00-1A | | | | 10IN40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | 2.4 |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 4.000 | 25 | 0.16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8<br>3.2<br>988<br>825 |
| 5.000 | 25 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10<br>2.6<br>790<br>660 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

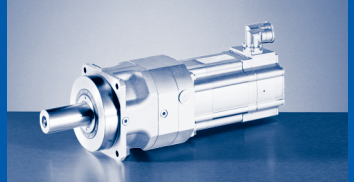
## $M_{2\,GN} \leq 72$ Nm

| GPA01-1A | | | | 10IN40 | 13IN34 | 13IN41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 3.000 | 56 | 0.71 | $M_2$ | | 18 | 11 |
| | | | c | | 3.0 | 4.8 |
| | | | $n_{2\,Eck}$ | | 1137 | 1350 |
| | | | $n_{2\,th}$ | | 767 | 767 |
| 4.000 | 70 | 0.52 | $M_2$ | | 24 | 15 |
| | | | c | | 2.8 | 4.5 |
| | | | $n_{2\,Eck}$ | | 853 | 1013 |
| | | | $n_{2\,th}$ | | 725 | 725 |
| 7.000 | 70 | 0.39 | $M_2$ | | 43 | 27 |
| | | | c | | 1.6 | 2.6 |
| | | | $n_{2\,Eck}$ | | 487 | 579 |
| | | | $n_{2\,th}$ | | 443 | 443 |
| 7.000 | 72 | 0.39 | $M_2$ | 13 | | |
| | | | c | 5.3 | | |
| | | | $n_{2\,Eck}$ | 564 | | |
| | | | $n_{2\,th}$ | 443 | | |
| 10.000 | 46 | 0.36 | $M_2$ | 19 | | |
| | | | c | 2.4 | | |
| | | | $n_{2\,Eck}$ | 395 | | |
| | | | $n_{2\,th}$ | 310 | | |

| GPA01-2A | | | | 10IN40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | 2.4 |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 16.000 | 70 | 0.16 | $M_2$ | 30 |
| | | | c | 2.3 |
| | | | $n_{2\,Eck}$ | 247 |
| | | | $n_{2\,th}$ | 219 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 170$ Nm

| GPA02-1A | | | | 10IN40 | 13IN34 | 14LN16 | 14LN20 | 14LN35 | 14LN41 | 17NN17 | 17NN23 | 17NN35 | 17NN41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 3.000 | 135 | 3.10 | $M_2$ | | | 34 | | 31 | | 62 | 31 | 55 | 27 |
| | | | c | | | 3.8 | | 4.3 | | 2.1 | 4.3 | 2.4 | 4.8 |
| | | | $n_{2\,Eck}$ | | | 545 | | 1152 | | 560 | 767 | 1160 | 1370 |
| | | | $n_{2\,th}$ | | | 545 | | 667 | | 560 | 667 | 667 | 667 |
| 4.000 | 170 | 2.25 | $M_2$ | | | 46 | | 41 | | 83 | 41 | 74 | 36 |
| | | | c | | | 3.6 | | 4.0 | | 2.0 | 4.0 | 2.3 | 4.6 |
| | | | $n_{2\,Eck}$ | | | 409 | | 864 | | 420 | 575 | 870 | 1028 |
| | | | $n_{2\,th}$ | | | 409 | | 625 | | 420 | 575 | 625 | 625 |
| 5.000 | 170 | 1.52 | $M_2$ | | 29 | 58 | 31 | 52 | | 105 | 52 | 92 | 45 |
| | | | c | | 5.5 | 2.9 | 5.2 | 3.2 | | 1.6 | 3.2 | 1.8 | 3.7 |
| | | | $n_{2\,Eck}$ | | 682 | 327 | 400 | 691 | | 336 | 460 | 696 | 822 |
| | | | $n_{2\,th}$ | | 500 | 327 | 400 | 500 | | 336 | 460 | 500 | 500 |
| 7.000 | 170 | 1.69 | $M_2$ | | 42 | 81 | 45 | 73 | 36 | 147 | 73 | 130 | 64 |
| | | | c | | 3.9 | 2.1 | 3.7 | 2.3 | 4.6 | 1.2 | 2.3 | 1.3 | 2.6 |
| | | | $n_{2\,Eck}$ | | 487 | 234 | 286 | 494 | 586 | 240 | 329 | 497 | 587 |
| | | | $n_{2\,th}$ | | 400 | 234 | 286 | 400 | 400 | 240 | 329 | 400 | 400 |
| 10.000 | 110 | 1.18 | $M_2$ | 19 | | | | | | | | | |
| | | | c | 5.6 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 395 | | | | | | | | | |
| | | | $n_{2\,th}$ | 280 | | | | | | | | | |

| GPA02-2A | | | | 10IN40 | 13IN34 | 13IN41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 16.000 | 170 | 0.58 | $M_2$ | 29 | 96 | 60 |
| | | | c | 5.5 | 1.8 | 2.8 |
| | | | $n_{2\,Eck}$ | 247 | 213 | 253 |
| | | | $n_{2\,th}$ | 194 | 194 | 194 |
| 20.000 | 170 | 0.48 | $M_2$ | 37 | | |
| | | | c | 4.4 | | |
| | | | $n_{2\,Eck}$ | 198 | | |
| | | | $n_{2\,th}$ | 155 | | |
| 28.000 | 170 | 0.41 | $M_2$ | 53 | | |
| | | | c | 3.2 | | |
| | | | $n_{2\,Eck}$ | 141 | | |
| | | | $n_{2\,th}$ | 125 | | |
| 35.000 | 170 | 0.40 | $M_2$ | 66 | | |
| | | | c | 2.5 | | |
| | | | $n_{2\,Eck}$ | 113 | | |
| | | | $n_{2\,th}$ | 100 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

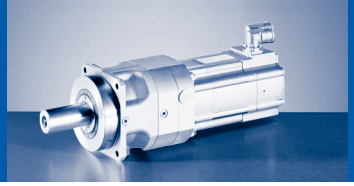
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GPA03-1A | | | | 13IN34 | 13IN41 | 14LN16 | 14LN20 | 14LN35 | 14LN41 | 17NN17 | 17NN23 | 17NN35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 |
| | | | $n_1$ | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 |
| | | | $I_{M\,400}$ | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 |
| | | | $P_N$ | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 |
| | | | $J_M$ | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 |
| 3.000 | 290 | 9.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 4.000 | 360 | 6.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 5.000 | 360 | 5.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 7.000 | 360 | 3.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 79<br>4.4<br>234<br>234 | | 71<br>4.9<br>494<br>371 | | 145<br>2.4<br>240<br>240 | 71<br>4.9<br>329<br>329 | 128<br>2.8<br>497<br>371 |
| 10.000 | 220 | 3.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 60<br>3.6<br>341<br>260 | 37<br>5.6<br>405<br>260 | 117<br>1.9<br>164<br>164 | 64<br>3.4<br>200<br>200 | 105<br>2.1<br>346<br>260 | 51<br>4.2<br>410<br>260 | 211<br>1.0<br>168<br>168 | 105<br>2.1<br>230<br>230 | 186<br>1.2<br>348<br>260 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

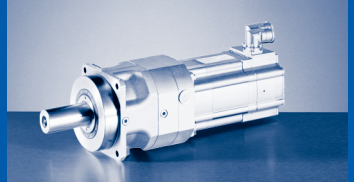


## $M_{2\,GN} \leq 360$ Nm

| 17NN41 | 19SN17 | 19SN23 | 19SN35 | 19SN42 | 21XN17 | 21XN25 | 21XN35 | 21XN42 | GPA03-1A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | 105 | | 104 | | 179 | 70 | 160 | 48 | $M_2$ | 9.31 | 290 | 3.000 |
| | 2.7 | | 2.7 | | 1.6 | 4.0 | 1.8 | 5.8 | c | | | |
| | 567 | | 1170 | | 570 | 830 | 1173 | 1387 | $n_{2\,Eck}$ | | | |
| | 567 | | 567 | | 567 | 567 | 567 | 567 | $n_{2\,th}$ | | | |
| | 140 | 61 | 139 | | | | | | $M_2$ | 6.89 | 360 | 4.000 |
| | 2.5 | 5.6 | 2.6 | | | | | | c | | | |
| | 425 | 585 | 878 | | | | | | $n_{2\,Eck}$ | | | |
| | 425 | 525 | 525 | | | | | | $n_{2\,th}$ | | | |
| | 176 | 77 | 175 | | 300 | 118 | 269 | 80 | $M_2$ | 5.97 | 360 | 5.000 |
| | 2.0 | 4.5 | 2.0 | | 1.2 | 3.0 | 1.3 | 4.3 | c | | | |
| | 340 | 468 | 702 | | 342 | 498 | 704 | 832 | $n_{2\,Eck}$ | | | |
| | 340 | 420 | 420 | | 342 | 420 | 420 | 420 | $n_{2\,th}$ | | | |
| 62 | 248 | 109 | 246 | 79 | | | | | $M_2$ | 3.90 | 360 | 7.000 |
| 5.5 | 1.5 | 3.2 | 1.5 | 4.4 | | | | | c | | | |
| 587 | 243 | 334 | 501 | 593 | | | | | $n_{2\,Eck}$ | | | |
| 371 | 243 | 334 | 371 | 371 | | | | | $n_{2\,th}$ | | | |
| 92 | | | | | | | | | $M_2$ | 3.53 | 220 | 10.000 |
| 2.4 | | | | | | | | | c | | | |
| 411 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 260 | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



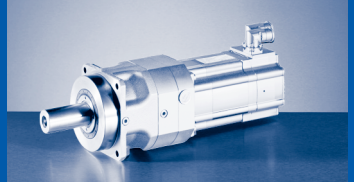


## $M_{2\,GN} \leq 360$ Nm

| GPA03-2A | | | | 13IN34 | 13IN41 | 14LN16 | 14LN20 | 14LN35 | 14LN41 | 17NN17 | 17NN23 | 17NN35 | 17NN41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 16.000 | 360 | 2.37 | $M_2$ | 94 | 58 | 183 | 100 | 164 | 80 | 330 | 164 | 291 | 144 |
| | | | c | 3.7 | 5.9 | 2.0 | 3.5 | 2.2 | 4.3 | 1.1 | 2.2 | 1.2 | 2.5 |
| | | | $n_{2\,Eck}$ | 213 | 253 | 102 | 125 | 216 | 256 | 105 | 144 | 218 | 257 |
| | | | $n_{2\,th}$ | 181 | 181 | 102 | 125 | 181 | 181 | 105 | 144 | 181 | 181 |
| 20.000 | 360 | 2.02 | $M_2$ | 119 | 74 | 229 | 126 | 206 | 101 | | 206 | | 181 |
| | | | c | 3.0 | 4.7 | 1.6 | 2.8 | 1.7 | 3.5 | | 1.7 | | 2.0 |
| | | | $n_{2\,Eck}$ | 171 | 203 | 82 | 100 | 173 | 205 | | 115 | | 206 |
| | | | $n_{2\,th}$ | 145 | 145 | 82 | 100 | 145 | 145 | | 115 | | 145 |
| 28.000 | 360 | 1.74 | $M_2$ | 167 | 105 | | | | | | | | |
| | | | c | 2.1 | 3.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 122 | 145 | | | | | | | | |
| | | | $n_{2\,th}$ | 114 | 114 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 550$ Nm

| GPA04-1A | | | | 19SN17 | 19SN23 | 19SN35 | 19SN42 | 21XN17 | 21XN25 | 21XN35 | 21XN42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 |
| 3.000 | 420 | 29.42 | $M_2$ | | | | | 178 | 69 | 159 | |
| | | | c | | | | | 2.3 | 5.8 | 2.6 | |
| | | | $n_{2\,Eck}$ | | | | | 570 | 830 | 1173 | |
| | | | $n_{2\,th}$ | | | | | 467 | 467 | 467 | |
| 4.000 | 550 | 22.06 | $M_2$ | | | | | 238 | 92 | 212 | |
| | | | c | | | | | 2.3 | 5.7 | 2.6 | |
| | | | $n_{2\,Eck}$ | | | | | 428 | 623 | 880 | |
| | | | $n_{2\,th}$ | | | | | 425 | 425 | 425 | |
| 5.000 | 550 | 19.46 | $M_2$ | 174 | | 173 | | | | | |
| | | | c | 3.1 | | 3.1 | | | | | |
| | | | $n_{2\,Eck}$ | 340 | | 702 | | | | | |
| | | | $n_{2\,th}$ | 340 | | 340 | | | | | |
| 7.000 | 550 | 25.90 | $M_2$ | 246 | 107 | 244 | | 420 | 165 | 376 | 112 |
| | | | c | 2.2 | 4.9 | 2.2 | | 1.3 | 3.3 | 1.5 | 4.7 |
| | | | $n_{2\,Eck}$ | 243 | 334 | 501 | | 244 | 356 | 503 | 594 |
| | | | $n_{2\,th}$ | 243 | 334 | 343 | | 244 | 343 | 343 | 343 |
| 10.000 | 340 | 24.89 | $M_2$ | | 158 | | 115 | | | | |
| | | | c | | 2.1 | | 2.9 | | | | |
| | | | $n_{2\,Eck}$ | | 234 | | 415 | | | | |
| | | | $n_{2\,th}$ | | 234 | | 240 | | | | |

| GPA04-2A | | | | 19SN23 | 19SN42 |
|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 16.30 | 12.00 |
| | | | $n_1$ | 2340 | 4150 |
| | | | $I_{M\,400}$ | 8.2 | 14.0 |
| | | | $P_N$ | 4.00 | 5.20 |
| | | | $J_M$ | 72.12 | 72.12 |
| 16.000 | 550 | 7.33 | $M_2$ | 247 | 181 |
| | | | c | 2.2 | 3.0 |
| | | | $n_{2\,Eck}$ | 146 | 259 |
| | | | $n_{2\,th}$ | 146 | 169 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

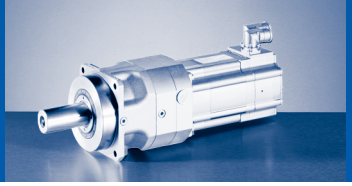
## $M_{2\,GN} \leq 1000$ Nm

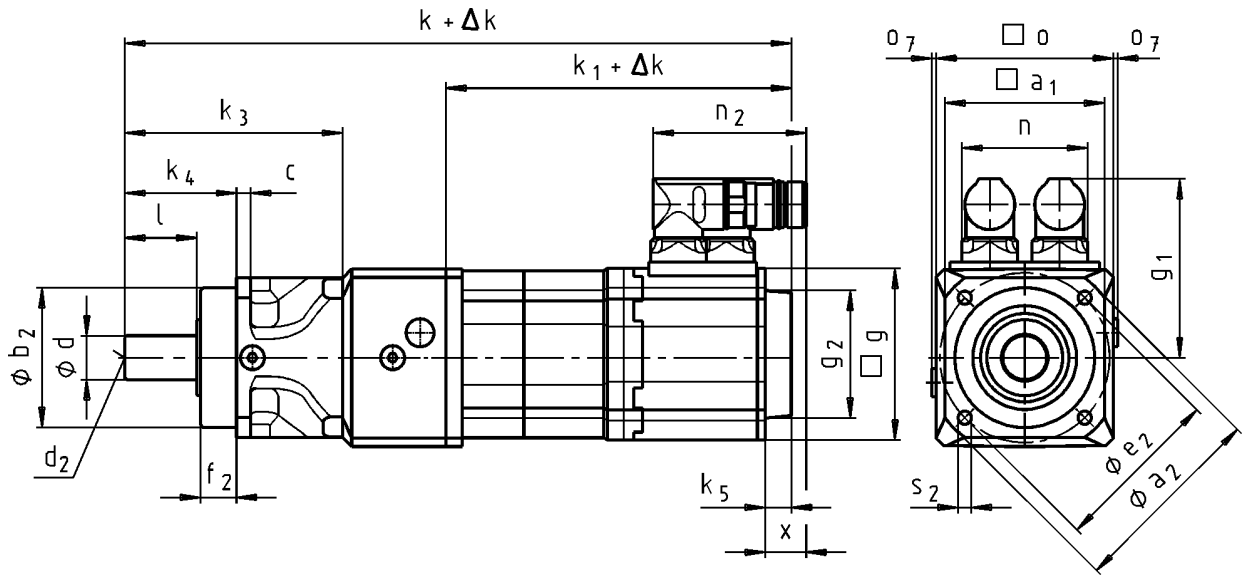
| GPA05-1A | | | | 21XN17 | 21XN25 | 21XN35 | 21XN42 |
|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 61.40 | 24.60 | 55.00 | 17.00 |
| | | | $n_1$ | 1710 | 2490 | 3520 | 4160 |
| | | | $I_{M\,400}$ | 22.5 | 13.5 | 42.5 | 19.8 |
| | | | $P_N$ | 11.00 | 6.40 | 20.30 | 7.40 |
| | | | $J_M$ | 180.04 | 180.04 | 180.04 | 180.04 |
| 10.000 | 620 | 18.62 | $M_2$ | 602 | 237 | 538 | 162 |
| | | | c | 1.0 | 2.6 | 1.2 | 3.7 |
| | | | $n_{2\,Eck}$ | 171 | 249 | 352 | 416 |
| | | | $n_{2\,th}$ | 171 | 220 | 220 | 220 |

| GPA05-2A | | | | 21XN17 | 21XN25 | 21XN35 | 21XN42 |
|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 61.40 | 24.60 | 55.00 | 17.00 |
| | | | $n_1$ | 1710 | 2490 | 3520 | 4160 |
| | | | $I_{M\,400}$ | 22.5 | 13.5 | 42.5 | 19.8 |
| | | | $P_N$ | 11.00 | 6.40 | 20.30 | 7.40 |
| | | | $J_M$ | 180.04 | 180.04 | 180.04 | 180.04 |
| 16.000 | 1000 | 23.39 | $M_2$ | 943 | 372 | 844 | 254 |
| | | | c | 1.1 | 2.7 | 1.2 | 3.8 |
| | | | $n_{2\,Eck}$ | 107 | 156 | 220 | 260 |
| | | | $n_{2\,th}$ | 107 | 156 | 156 | 156 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

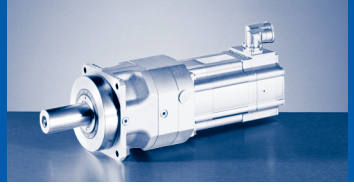





## GPA□□-1S GCN ... RSO

| | | 06C N41 | 06F N41 | 06I N41 | 09D N41 | 09F N38 | 09H N41 | 09L N41 | 12D N20 | 12D N41 | 12H N15 | 12H N30 | 12H N35 | 12L N20 | 12L N41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA00... | o | 65 | | | 89 | | | | | | | | | | |
| | k | 265 | 295 | 325 | 316 | 336 | 356 | 396 | | | | | | | |
| GPA01... | o | 80 | | | 89 | | | | | | | 116 | | | |
| | k | | 323 | 353 | 344 | 364 | 384 | 424 | | 349 | | 389 | | 429 | |
| GPA02... | o | | | | 102 | | | | | | | 116 | | | |
| | k | | | | 392 | 412 | 432 | 472 | | 397 | | 437 | | 477 | |
| GPA03... | o | | | | | | | | | | | 142 | | | |
| | k | | | | | | | | | 455 | | 495 | | 535 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | | 188 | | 228 | | 268 | |
| | g | 62 | | | 89 | | | | | | | 116 | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | | | | 14 | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | | | | Ø 72 | | | |
| | $g_1$ | 76 | | | 90 | | | | | | | 105 | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | n | 58 | | | 63 | | | | | | | | | | |
| | x | 21 | | | | | | | | 18 | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20



## GPA□□-1S GCN ... RSO

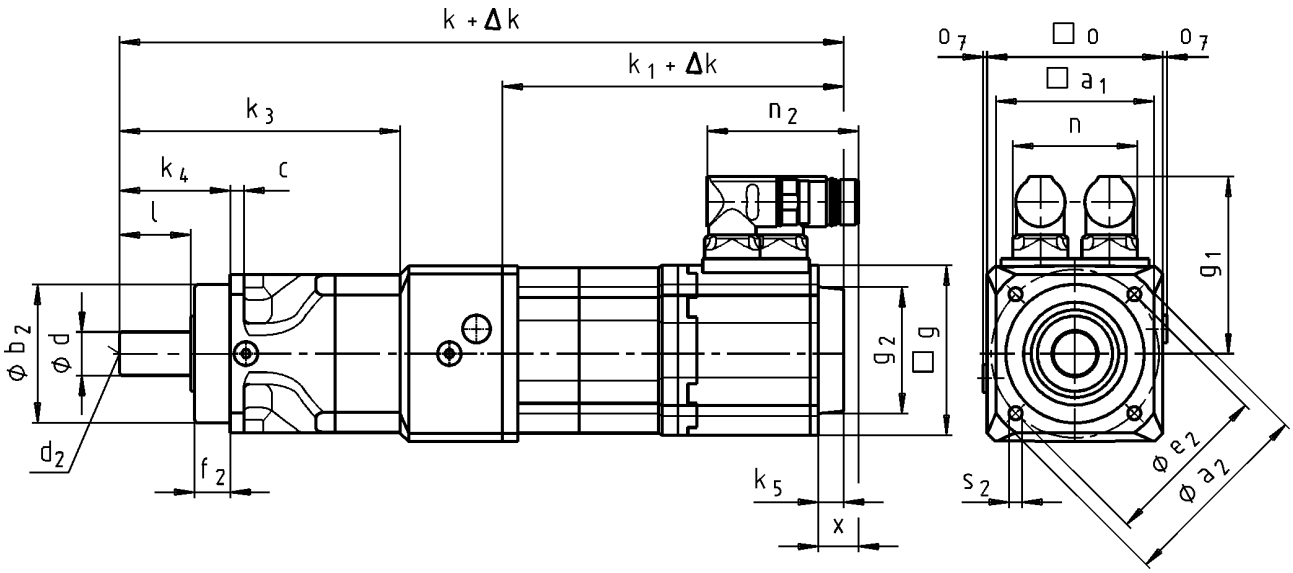
| | | 14D N15 | 14D N36 | 14H N15 | 14H N32 | 14L N15 | 14L N32 | 14P N14 | 14P N32 | 19F N14 | 19F N30 | 19J N14 | 19J N30 | 19P N14 | 19P N30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA02... | o | 142 | | | | | | | | | | | | | |
| | k | 410 | | 450 | | 490 | | 530 | | | | | | | |
| GPA03... | o | 142 | | | | | | | | 192 | | | | | |
| | k | 468 | | 508 | | 548 | | 588 | | 487 | | 527 | | 587 | |
| GPA04... | o | | | | | | | | | 192 | | | | | |
| | k | | | | | | | | | 528 | | 568 | | 628 | |
| GPA05... | o | | | | | | | | | 212 | | | | | |
| | k | | | | | | | | | 579 | | 619 | | 679 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | n | 63 | | | | 80 | | 63 | 80 | 63 | 80 | 63 | 80 | 63 | 80 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GPA□□-1S GCN

| | $k_3$ | $k_4$ | $o_7$ |
|---|---|---|---|
| GPA00... | 94 | 48 | 2 |
| GPA01... | 109 | 56 | |
| GPA02... | 146 | 88 | |
| GPA03... | 189 | 112 | 3 |
| GPA04... | 213 | | |
| GPA05... | 255 | 143 | |

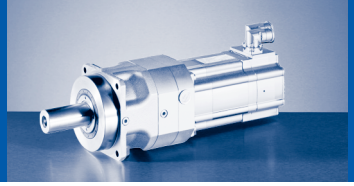
| | d | l | $d_2$ | $a_1$ | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | k6 | | | | | g6 | | | | 4x90° |
| GPA00... | 16 | 28 | M5 | 65 | 80 | 60 | 6 | 68 | 18 | 5.5 |
| GPA01... | 22 | 36 | M8 | 80 | 100 | 70 | 7 | 85 | | 6.6 |
| GPA02... | 32 | 58 | M12 | 102 | 140 | 90 | 10 | 120 | 28 | 9 |
| GPA03... | 40 | 82 | M16 | 142 | 188 | 130 | 12 | 165 | | 11 |
| GPA04... | 55 | | M20 | 182 | 250 | 160 | 15 | 215 | 27 | 13 |
| GPA05... | 75 | 105 | | 212 | 290 | 180 | 17 | 250 | 35 | 17 |




## GPA□□-2S GCN ... RSO

| | | 06C N41 | 06F N41 | 06I N41 | 09D N41 | 09F N38 | 09H N41 | 09L N41 | 12D N20 | 12D N41 | 12H N15 | 12H N30 | 12H N35 | 12L N20 | 12L N41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA00... | o | | 65 | | | | | | | | | | | | |
| | k | 296 | 326 | 356 | | | | | | | | | | | |
| GPA01... | o | | 80 | | | 89 | | | | | | | | | |
| | k | 313 | 343 | 373 | 364 | 384 | 404 | 444 | | | | | | | |
| GPA02... | o | | | | | 102 | | | | | | 116 | | | |
| | k | | | | 419 | 439 | 459 | 499 | 424 | | | 464 | | | 504 |
| GPA03... | o | | | | | | | | | | | 142 | | | |
| | k | | | | | | | | 488 | | | 528 | | 568 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | | 19 | | | | | | | 20 | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | | 228 | | 268 | |
| | g | | 62 | | | 89 | | | | | | 116 | | | |
| ...RSO | $k_5$ | | 0 | | | 13 | | | | | | 14 | | | |
| | $g_2$ | | □ 62 | | | Ø 67 | | | | | | Ø 72 | | | |
| | $g_1$ | | 76 | | | 90 | | | | | | 105 | | | |
| | $n_2$ | | 64 | | | | | | | 78 | | | | | |
| | n | | 58 | | | | | | | 63 | | | | | |
| | x | | | | | 21 | | | | | | 18 | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20



## GPA□□-2S GCN ... RSO

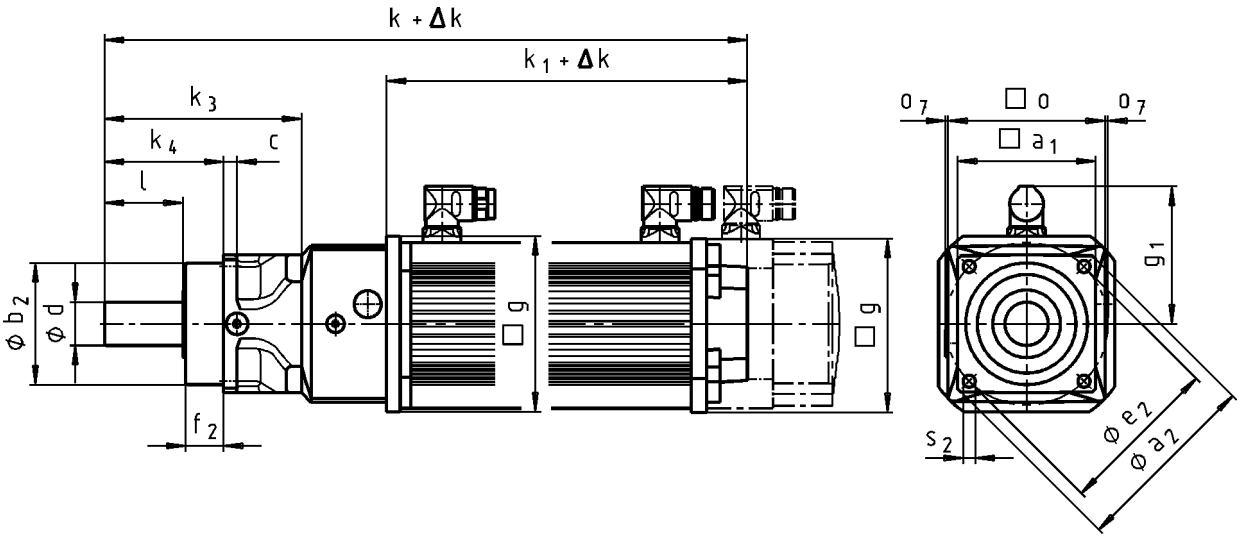
| | | 14D N15 | 14D N36 | 14H N15 | 14H N32 | 14L N15 | 14L N32 | 14P N32 | 19F N14 | 19F N30 | 19J N14 | 19J N30 | 19P N14 | 19P N30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA03... | o | 142 | | | | | | | | | | | | |
| | k | 501 | | 541 | | 581 | | 621 | | | | | | |
| GPA04... | o | | | | | | | | 192 | | | | | |
| | k | | | | | | | | 558 | | | 598 | | 658 |
| GPA05... | o | | | | | | | | 212 | | | | | |
| | k | | | | | | | | 648 | | 688 | | 748 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | 220 | | 260 | | 320 | |
| | g | 143 | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | | 147 | | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 |
| | n | 63 | | | | | 80 | | 63 | 80 | 63 | 80 | 63 | 80 |
| | x | 16 | | | | | 38 | | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GPA□□-2S GCN

| | $k_3$ | $k_4$ | $o_7$ |
|---|---|---|---|
| GPA00... | 125 | 48 | 2 |
| GPA01... | 142 | 56 | |
| GPA02... | 184 | 88 | |
| GPA03... | 237 | 112 | |
| GPA04... | 261 | | 3 |
| GPA05... | 334 | 143 | |

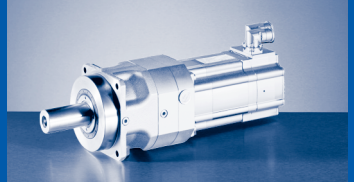
| | d | l | $d_2$ | $a_1$ | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | k6 | | | | | g6 | | | | 4x90° |
| GPA00... | 16 | 28 | M5 | 65 | 80 | 60 | 6 | 68 | 18 | 5.5 |
| GPA01... | 22 | 36 | M8 | 80 | 100 | 70 | 7 | 85 | | 6.6 |
| GPA02... | 32 | 58 | M12 | 102 | 140 | 90 | 10 | 120 | 28 | 9 |
| GPA03... | 40 | 82 | M16 | 142 | 188 | 130 | 12 | 165 | | 11 |
| GPA04... | 55 | | M20 | 182 | 250 | 160 | 15 | 215 | 27 | 13 |
| GPA05... | 75 | 105 | | 212 | 290 | 180 | 17 | 250 | 35 | 17 |




## GPA□□-1A GCN ... RSO

| | | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GPA00... | o | 89 | | | | | | | | |
| | k | 395 | | | | | | | | |
| GPA01... | o | 89 | 116 | | | | | | | |
| | k | 423 | 432 | 500 | | | | | | |
| GPA02... | o | 102 | 116 | | 142 | | | | | |
| | k | 471 | 479 | 547 | 510 | | 572 | | 548 | |
| GPA03... | o | | 142 | | | | | | | |
| | k | | 537 | 605 | 568 | | 630 | | 606 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 262 | 271 | 339 | 302 | | 364 | | 340 | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GPA□□-1A GCN ... RSO

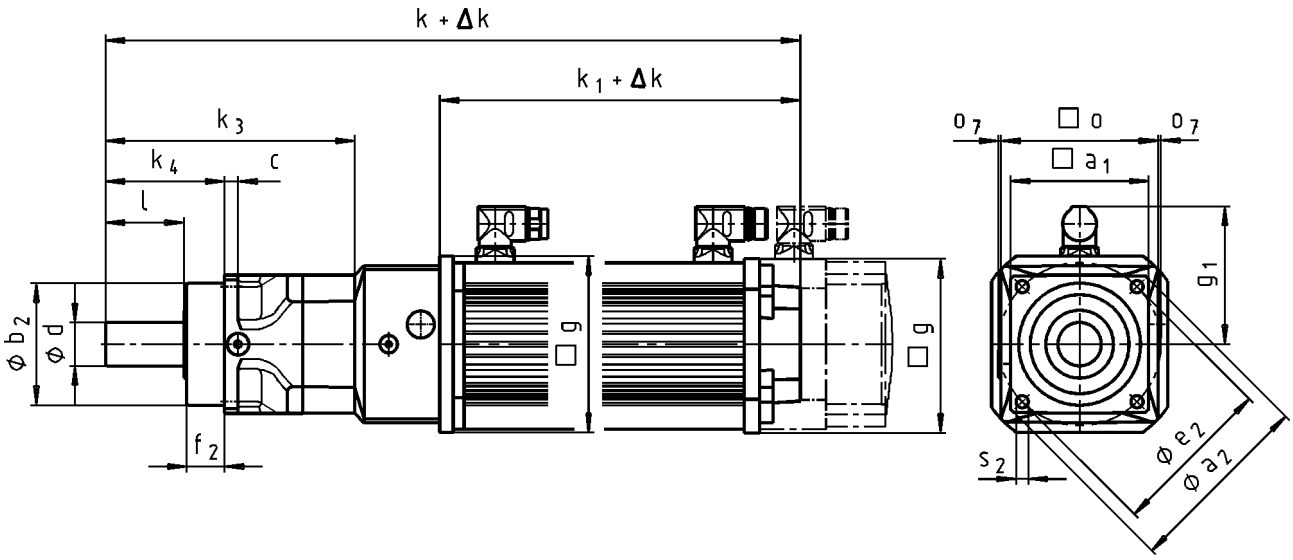
| | | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA02... | o | 142 | | | | | | | | | |
| | k | 637 | | | | | | | | | |
| GPA03... | o | 142 | | 192 | | | | 214 | | | |
| | k | 695 | | 668 | | 765 | | 756 | | 852 | |
| GPA04... | o | | | 192 | | | | | | | |
| | k | | | 709 | | 806 | | 777 | | 873 | |
| GPA05... | o | | | 212 | | | | | | | |
| | k | | | 760 | | 857 | | 829 | | 925 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 429 | | 401 | | 498 | | 470 | | 566 | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GPA□□-1A GCN

| | $k_3$ | $k_4$ | $o_7$ |
|---|---|---|---|
| GPA00... | 94 | 48 | 2 |
| GPA01... | 109 | 56 | |
| GPA02... | 146 | 88 | |
| GPA03... | 189 | 112 | 3 |
| GPA04... | 213 | | |
| GPA05... | 255 | 143 | |

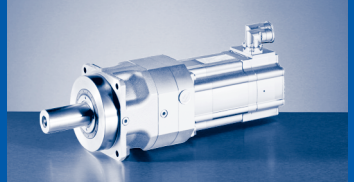
| | d | l | $d_2$ | $a_1$ | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | k6 | | | | | g6 | | | | 4x90° |
| GPA00... | 16 | 28 | M5 | 65 | 80 | 60 | 6 | 68 | 18 | 5.5 |
| GPA01... | 22 | 36 | M8 | 80 | 100 | 70 | 7 | 85 | | 6.6 |
| GPA02... | 32 | 58 | M12 | 102 | 140 | 90 | 10 | 120 | 28 | 9 |
| GPA03... | 40 | 82 | M16 | 142 | 188 | 130 | 12 | 165 | | 11 |
| GPA04... | 55 | | M20 | 182 | 250 | 160 | 15 | 215 | 27 | 13 |
| GPA05... | 75 | 105 | | 212 | 290 | 180 | 17 | 250 | 35 | 17 |




## GPA□□-2A GCN ... RSO

| | | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GPA01... | **o** | 89 | | | | | | | | |
| | **k** | 443 | | | | | | | | |
| GPA02... | **o** | 102 | 116 | | | | | | | |
| | **k** | 498 | 507 | 575 | | | | | | |
| GPA03... | **o** | | 142 | | | | | | | |
| | **k** | | 571 | 639 | 602 | | 664 | | 640 | |
| ...RSO B0 [1] | **Δ k** | 0 | | | | | | | | |
| ...RSO P□ [1] | **Δ k** | 25 | 35 | | 33 | | | | 35 | |
| | **$k_1$** | 262 | 271 | 339 | 302 | | 364 | | 340 | |
| | **g** | 102 | 131 | | 142 | | | | 165 | |
| | **$g_1$** | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GPA□□-2A GCN ... RSO

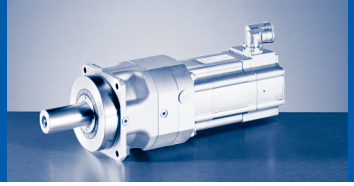
| | | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GPA03... | o | 142 | | | | | | | | | |
| | k | 729 | | | | | | | | | |
| GPA04... | o | | | 192 | | | | | | | |
| | k | | | 739 | | 836 | | | | | |
| GPA05... | o | | | 212 | | | | | | | |
| | k | | | 829 | | 926 | | 898 | | 994 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 429 | | 401 | | 498 | | 470 | | 566 | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

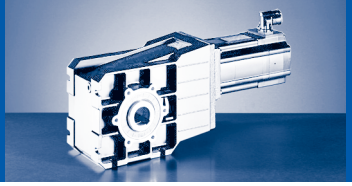
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GPA□□-2A GCN

| | $k_3$ | $k_4$ | $o_7$ |
|---|---|---|---|
| GPA01... | 142 | 56 | 2 |
| GPA02... | 184 | 88 | |
| GPA03... | 237 | 112 | 3 |
| GPA04... | 261 | | |
| GPA05... | 334 | 143 | |

| | d | l | $d_2$ | $a_1$ | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | k6 | | | | | g6 | | | | 4x90° |
| GPA01... | 22 | 36 | M8 | 80 | 100 | 70 | 7 | 85 | 18 | 6.6 |
| GPA02... | 32 | 58 | M12 | 102 | 140 | 90 | 10 | 120 | 28 | 9 |
| GPA03... | 40 | 82 | M16 | 142 | 188 | 130 | 12 | 165 | | 11 |
| GPA04... | 55 | | M20 | 182 | 250 | 160 | 15 | 215 | 27 | 13 |
| GPA05... | 75 | 105 | | 212 | 290 | 180 | 17 | 250 | 35 | 17 |

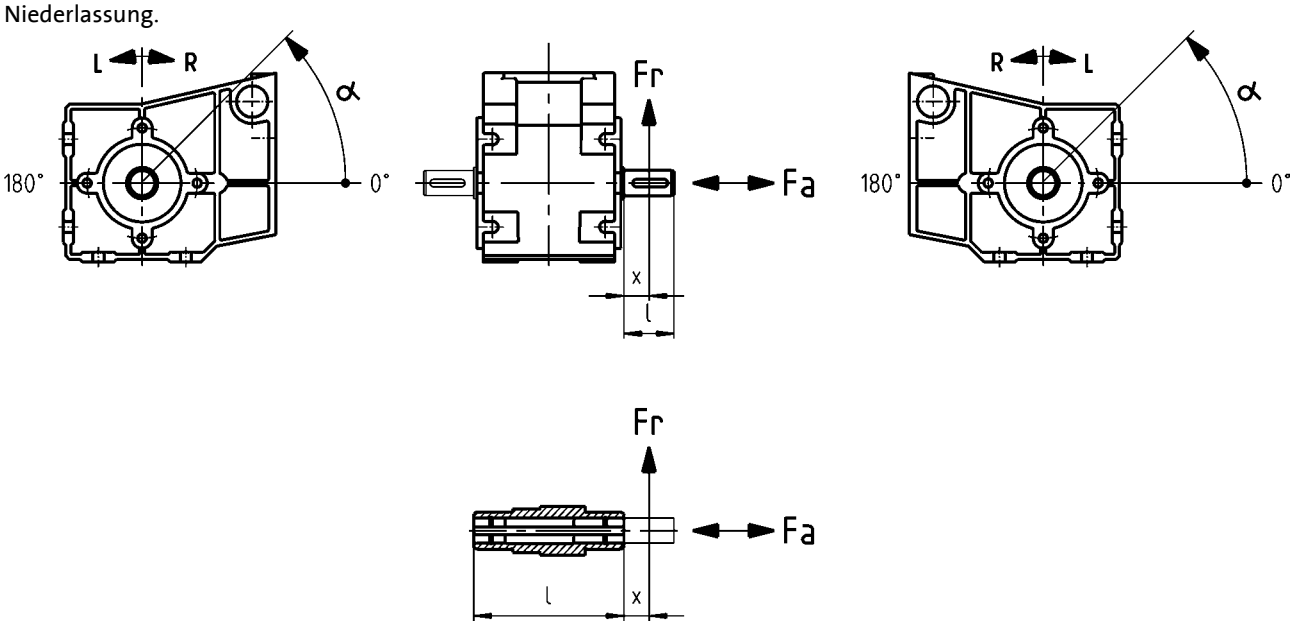




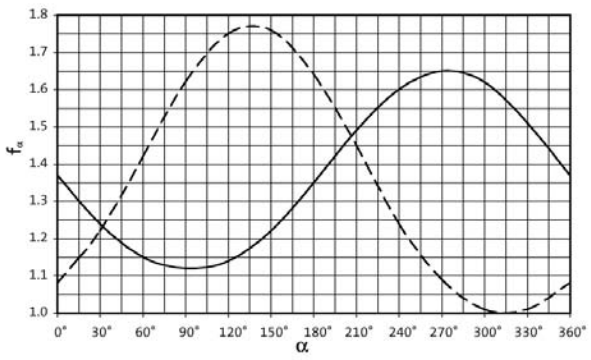
**Zulässige Radialkraft**
$Fr_{zul} = \min(f_w \times f_\alpha \times Fr_{Tab} ; f_w \times Fr_{max})$

**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0

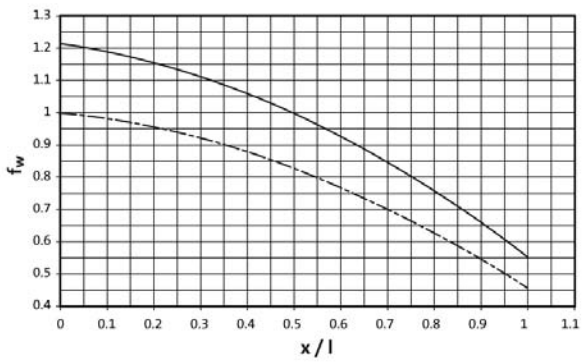
Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung.




**Wirkrichtungsfaktor $f_\alpha$ an der Abtriebswelle**




**Lastangriffsbeiwert $f_w$ an der Abtriebswelle**

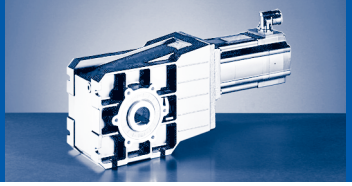



——— Drehrichtung R
— — — Drehrichtung L

——— Vollwelle (V□□)
— · — Hohlwelle (H□□)

| | Vollwelle ohne Flansch (V□R)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GKR03-2 | | GKR04-2 | | GKR05-2 | | GKR06-2 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 900 | 600 | 1000 | 700 | 1500 | 1100 | 2000 | 1500 |
| **630** | 1200 | 800 | 1800 | 1000 | 2350 | 1520 | 2800 | 2000 |
| **400** | 1800 | 1000 | 2100 | 1275 | 3000 | 1900 | 4000 | 2500 |
| **250** | 2100 | 1100 | 2500 | 1500 | 3600 | 2200 | 4200 | 2600 |
| **160** | 2400 | 1250 | 2700 | 1650 | 4500 | 2500 | 4500 | 2750 |
| **100** | 2800 | 1400 | 3000 | 1800 | 5000 | 3100 | 5600 | 3500 |
| **63** | 3000 | 1400 | 3000 | 1800 | 6000 | 3700 | 7300 | 4500 |
| **40** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 8600 | 5000 |
| **25** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| **≤ 16** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| $Fr_{max}$ | 3000 | - | 3000 | - | 6500 | - | 9000 | - |

| | Vollwelle mit Flansch (V□K)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GKR03-2 | | GKR04-2 | | GKR05-2 | | GKR06-2 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 900 | 600 | 1000 | 700 | 2400 | 1100 | 3000 | 1500 |
| **630** | 1200 | 800 | 1800 | 1000 | 3600 | 1500 | 4000 | 2000 |
| **400** | 1800 | 1000 | 2100 | 1275 | 5200 | 1900 | 5500 | 2500 |
| **250** | 2100 | 1100 | 2500 | 1500 | 6000 | 2200 | 6200 | 2600 |
| **160** | 2400 | 1250 | 2700 | 1650 | 6500 | 2500 | 7000 | 2750 |
| **100** | 2800 | 1400 | 3000 | 1800 | 6500 | 3100 | 9000 | 3500 |
| **63** | 3000 | 1400 | 3000 | 1800 | 6500 | 3700 | 9000 | 4500 |
| **40** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| **25** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| **≤ 16** | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| $Fr_{max}$ | 3000 | - | 3000 | - | 6500 | - | 9000 | - |

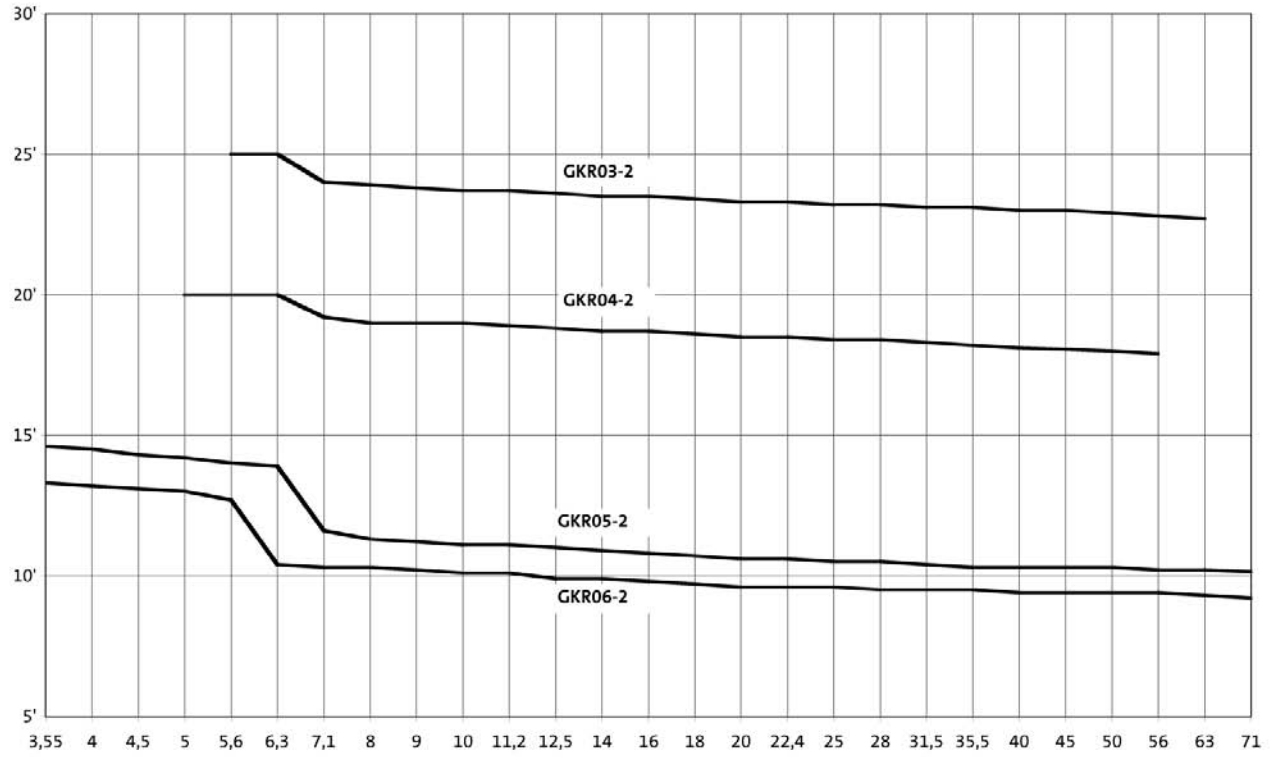


| | Hohlwelle (H□□)<br>Kraftangriff Fr: an Hohlwellenspiegel (x=0)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GKR03-2 | | GKR04-2 | | GKR05-2 | | GKR06-2 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **1000** | 900 | 600 | 1000 | 700 | 1500 | 1100 | 3000 | 1500 |
| **630** | 1200 | 800 | 2200 | 1000 | 2250 | 1500 | 3800 | 2000 |
| **400** | 2200 | 1000 | 2550 | 1275 | 3800 | 1900 | 5000 | 2500 |
| **250** | 2500 | 1100 | 3000 | 1500 | 4500 | 2200 | 5200 | 2600 |
| **160** | 2800 | 1250 | 3300 | 1650 | 5100 | 2500 | 5500 | 2750 |
| **100** | 3000 | 1400 | 3600 | 1800 | 6200 | 3100 | 7000 | 3500 |
| **63** | 3000 | 1400 | 3600 | 1800 | 7400 | 3700 | 9000 | 4500 |
| **40** | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| **25** | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| **≤ 16** | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| **$Fr_{max}$** | 3000 | - | 3600 | - | 7800 | - | 10000 | - |

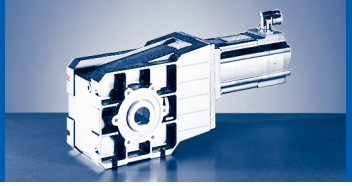
► Bei Hohlwelle mit Schrumpfscheibe (S□□) sind weder Radial- noch Axialkräfte zulässig.

## Verdrehspiel am Abtrieb in Winkelminuten

**GKR03...06-2**

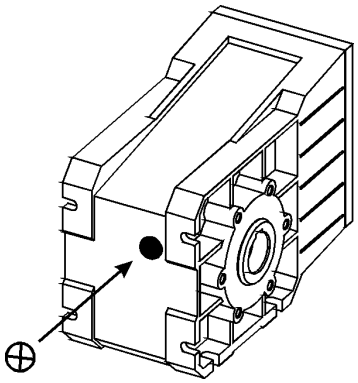
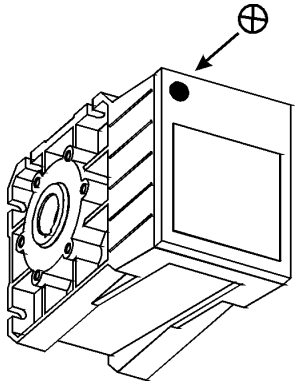
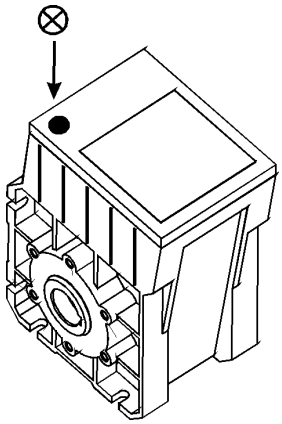


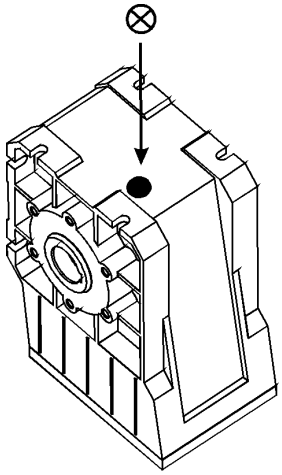
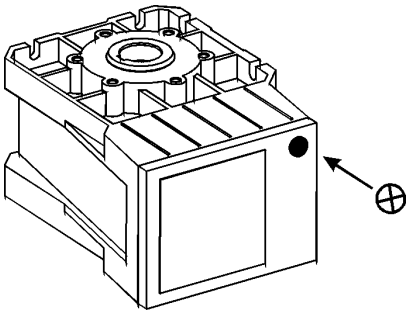
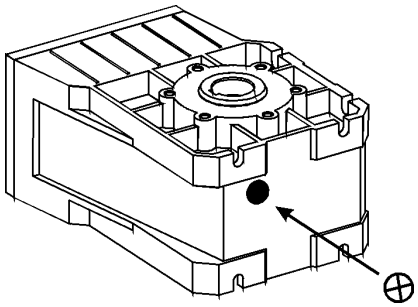

Übersetzung



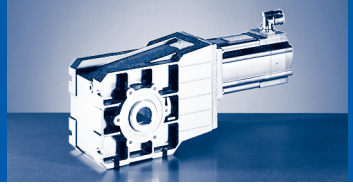
## Lage der Entlüftung

### GKR06

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

⊗ Entlüftung



# GKR [kg]

## GKR□□-2S HAR / HBR...RSO B0

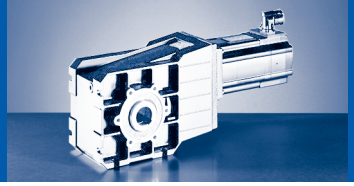
| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | 5 | 6 | 7 | | | | | | | | | | | |
| GKR04... | 7 | 8 | | 10 | 11 | 12 | 14 | | | | | | | |
| GKR05... | 10 | 11 | 12 | 13 | 14 | 15 | 17 | | | 20 | | | 23 | |
| GKR06... | 19 | 20 | | 22 | 23 | 24 | 26 | 25 | | 28 | | | 31 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|
| GKR06... | 30 | | 35 | | 39 | | 44 | |

## GKR□□-2A HAR / HBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR04... | 11 | 16 | 17 | | | | | | | | |
| GKR05... | 16 | 20 | 21 | 26 | | 27 | | | | | |
| GKR06... | 24 | 28 | 29 | 34 | | 36 | | 42 | | 44 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



## Mehrgewichte Servomotoren MCS

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | |
| ...P2 | 3.1 | | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.3 | | | | | | | |

## Mehrgewichte Servomotoren MCA

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | | | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | | | |

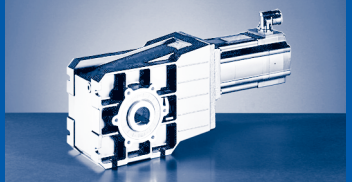
## Mehrgewichte Getriebe

| | Vollwelle | 2. Abtriebswellenende | Hohlwelle mit Schrumpfscheibe | Flansch | Drehmomentstütze Gewindelochkreis | Drehmomentstütze Gehäusefuß |
|---|---|---|---|---|---|---|
| | V□□ | V□□ | S□□ | □□K | | |
| **GKR03...** | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 | |
| **GKR04...** | 0.3 | | | 0.5 | 0.4 | |
| **GKR05...** | 1 | 0.3 | 0.8 | 1 | 1.3 | 2 |
| **GKR06...** | 1.7 | 0.5 | 1 | | 2.1 | 3.7 |

Gewichte in [kg]

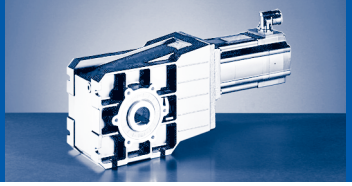
► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKR03-2 | 5.411 | 1120 | 207 |
| | 6.222 | 1288 | |
| | 7.111 | 1600 | 225 |
| | 8.178 | 1840 | |
| | 9.101 | 1720 | 189 |
| | 10.466 | 1978 | |
| | 11.640 | 2200 | |
| | 13.386 | 2530 | |
| | 15.111 | 2040 | 135 |
| | 17.378 | 2346 | |
| | 19.365 | 2440 | 126 |
| | 22.270 | 2806 | |
| | 25.051 | 2480 | 99 |
| | 28.808 | 2852 | |
| | 32.593 | 2640 | 81 |
| | 37.481 | 3036 | |
| | 42.222 | 3800 | 90 |
| | 48.556 | 4370 | |
| | 53.889 | 3880 | 72 |
| | 61.972 | 4462 | |
| GKR04-2 | 5.185 | 1400 | 270 |
| | 5.963 | 1610 | |
| | 7.111 | 1600 | 225 |
| | 8.178 | 1840 | |
| | 9.101 | 1720 | 189 |
| | 10.466 | 1978 | |
| | 11.449 | 2576 | 225 |
| | 12.698 | 2400 | 189 |
| | 14.603 | 2760 | |
| | 15.556 | 2520 | 162 |
| | 17.889 | 2898 | |
| | 19.556 | 2640 | 135 |
| | 22.489 | 3036 | |
| | 25.185 | 2720 | 108 |
| | 28.963 | 3128 | |
| | 31.919 | 3160 | 99 |
| | 36.707 | 3634 | |
| | 40.000 | 3240 | 81 |
| | 46.000 | 3726 | |
| | 52.698 | 3320 | 63 |
| | 60.603 | 3818 | |
| GKR05-2 | 3.565 | 1925 | 540 |
| | 4.889 | 2200 | 450 |
| | 6.257 | 2365 | 378 |
| | 6.883 | 2065 | 300 |



► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKR05-2 | 7.817 | 2345 | 300 |
| | 9.440 | 2360 | 250 |
| | 10.720 | 2680 | |
| | 12.081 | 2537 | 210 |
| | 13.216 | 3304 | 250 |
| | 13.719 | 2881 | 210 |
| | 15.008 | 3752 | 250 |
| | 16.857 | 3540 | 210 |
| | 19.143 | 4020 | |
| | 20.650 | 3717 | 180 |
| | 23.450 | 4221 | |
| | 26.878 | 4838 | |
| | 30.522 | 5494 | |
| | 33.433 | 4012 | 120 |
| | 37.967 | 4556 | |
| | 43.267 | 5192 | |
| | 49.133 | 5896 | |
| | 52.510 | 5251 | 100 |
| | 59.630 | 5963 | |
| | 67.113 | 5369 | 80 |
| | 76.213 | 6097 | |
| GKR06-2 | 3.431 | 1750 | 510 |
| | 4.706 | 2000 | 425 |
| | 6.022 | 2150 | 357 |
| | 6.481 | 1750 | 270 |
| | 7.146 | 1715 | 240 |
| | 8.889 | 2000 | 225 |
| | 9.800 | 1960 | 200 |
| | 11.376 | 2150 | 189 |
| | 12.444 | 2800 | 225 |
| | 13.720 | 2744 | 200 |
| | 15.873 | 3000 | 189 |
| | 17.500 | 2940 | 168 |
| | 19.444 | 3150 | 162 |
| | 21.438 | 3087 | 144 |
| | 25.309 | 4100 | 162 |
| | 27.903 | 4018 | 144 |
| | 31.481 | 3400 | 108 |
| | 34.708 | 3332 | 96 |
| | 40.741 | 4400 | 108 |
| | 44.917 | 4312 | 96 |
| | 49.444 | 4450 | 90 |
| | 54.513 | 4361 | 80 |
| | 62.500 | 4500 | 72 |
| | 68.906 | 4410 | 64 |



## $M_{2\,GN} \leq 45$ Nm

| GKR03-2S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 5.411 | 39 | 0.31 | $M_2$ | | 6 | 8 |
| | | | c | | 4.6 | 3.7 |
| | | | $n_{2\,Eck}$ | | 749 | 749 |
| | | | $n_{2\,th}$ | | 749 | 749 |
| 6.222 | 41 | 0.28 | $M_2$ | | 7 | 9 |
| | | | c | | 4.1 | 3.3 |
| | | | $n_{2\,Eck}$ | | 651 | 651 |
| | | | $n_{2\,th}$ | | 651 | 651 |
| 7.111 | 43 | 0.20 | $M_2$ | | 8 | 10 |
| | | | c | | 3.8 | 3.1 |
| | | | $n_{2\,Eck}$ | | 570 | 570 |
| | | | $n_{2\,th}$ | | 570 | 570 |
| 8.178 | 44 | 0.18 | $M_2$ | | 9 | 11 |
| | | | c | | 3.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 495 | 495 |
| | | | $n_{2\,th}$ | | 495 | 495 |
| 9.101 | 45 | 0.13 | $M_2$ | | 10 | 13 |
| | | | c | | 3.1 | 2.5 |
| | | | $n_{2\,Eck}$ | | 445 | 445 |
| | | | $n_{2\,th}$ | | 445 | 445 |
| 10.466 | 45 | 0.12 | $M_2$ | 6 | 12 | 15 |
| | | | c | 5.4 | 2.7 | 2.2 |
| | | | $n_{2\,Eck}$ | 387 | 387 | 387 |
| | | | $n_{2\,th}$ | 387 | 387 | 387 |
| 11.640 | 45 | 0.09 | $M_2$ | 6 | 13 | 16 |
| | | | c | 4.9 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 348 | 348 | 348 |
| | | | $n_{2\,th}$ | 348 | 348 | 348 |
| 13.386 | 45 | 0.08 | $M_2$ | 7 | 15 | 19 |
| | | | c | 4.2 | 2.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 303 | 303 | 303 |
| | | | $n_{2\,th}$ | 303 | 303 | 303 |
| 15.111 | 45 | 0.06 | $M_2$ | 8 | 17 | 21 |
| | | | c | 3.8 | 1.9 | 1.5 |
| | | | $n_{2\,Eck}$ | 268 | 268 | 268 |
| | | | $n_{2\,th}$ | 268 | 268 | 268 |
| 17.378 | 45 | 0.06 | $M_2$ | 10 | 20 | 25 |
| | | | c | 3.3 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | 233 | 233 | 233 |
| | | | $n_{2\,th}$ | 233 | 233 | 233 |
| 19.365 | 45 | 0.04 | $M_2$ | 11 | 22 | 28 |
| | | | c | 2.9 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | 209 | 209 | 209 |
| | | | $n_{2\,th}$ | 209 | 209 | 209 |
| 22.270 | 45 | 0.05 | $M_2$ | 12 | 25 | 32 |
| | | | c | 2.6 | 1.3 | 1.0 |
| | | | $n_{2\,Eck}$ | 182 | 182 | 182 |
| | | | $n_{2\,th}$ | 182 | 182 | 182 |
| 25.051 | 45 | 0.03 | $M_2$ | 14 | 28 | 36 |
| | | | c | 2.6 | 1.3 | 1.0 |
| | | | $n_{2\,Eck}$ | 162 | 162 | 162 |
| | | | $n_{2\,th}$ | 162 | 162 | 162 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

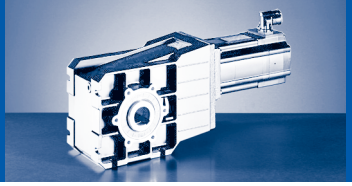
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 45$ Nm

| GKR03-2S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 28.808 | 45 | 0.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16<br>2.2<br>141<br>141 | 33<br>1.1<br>141<br>141 | |
| 32.593 | 45 | 0.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18<br>2.0<br>124<br>124 | | |
| 37.481 | 45 | 0.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 21<br>1.7<br>108<br>108 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 90$ Nm

| GKR04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 5.185 | 69 | 0.81 | $M_2$ | | | | 11 | 15 | 18 | 22 |
| | | | c | | | | 4.4 | 3.3 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 781 | 723 | 781 | 781 |
| | | | $n_{2\,th}$ | | | | 679 | 645 | 617 | 596 |
| 5.963 | 72 | 0.72 | $M_2$ | | | | 13 | 17 | 21 | 25 |
| | | | c | | | | 4.0 | 3.0 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 679 | 629 | 679 | 679 |
| | | | $n_{2\,th}$ | | | | 581 | 551 | 527 | 509 |
| 7.111 | 78 | 0.45 | $M_2$ | | | 10 | 15 | 21 | 25 | 30 |
| | | | c | | | 5.5 | 3.6 | 2.7 | 2.2 | 1.8 |
| | | | $n_{2\,Eck}$ | | | 570 | 570 | 527 | 570 | 570 |
| | | | $n_{2\,th}$ | | | 569 | 530 | 506 | 485 | 459 |
| 8.178 | 81 | 0.41 | $M_2$ | | | 11 | 17 | 24 | 29 | 35 |
| | | | c | | | 5.0 | 3.3 | 2.5 | 2.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | | 495 | 495 | 459 | 495 | 495 |
| | | | $n_{2\,th}$ | | | 487 | 454 | 432 | 415 | 382 |
| 9.101 | 84 | 3.27 | $M_2$ | | 10 | 12 | 19 | 26 | 33 | 39 |
| | | | c | | 5.8 | 4.7 | 3.1 | 2.3 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 445 | 445 | 445 | 412 | 445 | 445 |
| | | | $n_{2\,th}$ | | 445 | 445 | 445 | 412 | 425 | 389 |
| 10.466 | 89 | 0.30 | $M_2$ | | 11 | 14 | 22 | 30 | 38 | 45 |
| | | | c | | 5.3 | 4.3 | 2.8 | 2.1 | 1.7 | 1.4 |
| | | | $n_{2\,Eck}$ | | 387 | 387 | 387 | 358 | 387 | 387 |
| | | | $n_{2\,th}$ | | 387 | 387 | 387 | 358 | 352 | 324 |
| 11.449 | 90 | 0.26 | $M_2$ | | 13 | 16 | 25 | 33 | 41 | 49 |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 354 | 354 | 354 | 328 | 354 | 354 |
| | | | $n_{2\,th}$ | | 354 | 354 | 354 | 328 | 324 | 300 |
| 12.698 | 90 | 1.99 | $M_2$ | | 14 | 18 | 27 | 37 | 46 | 54 |
| | | | c | | 4.5 | 3.6 | 2.3 | 1.8 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 319 | 319 | 319 | 295 | 319 | 319 |
| | | | $n_{2\,th}$ | | 319 | 319 | 319 | 295 | 318 | 299 |
| 14.603 | 90 | 0.18 | $M_2$ | | 16 | 20 | 32 | 43 | 53 | 62 |
| | | | c | | 3.9 | 3.1 | 2.0 | 1.5 | 1.2 | 1.0 |
| | | | $n_{2\,Eck}$ | | 277 | 277 | 277 | 257 | 277 | 277 |
| | | | $n_{2\,th}$ | | 277 | 277 | 277 | 257 | 263 | 248 |
| 15.556 | 90 | 1.47 | $M_2$ | | 17 | 22 | 34 | 46 | 56 | |
| | | | c | | 3.7 | 2.9 | 1.9 | 1.5 | 1.2 | |
| | | | $n_{2\,Eck}$ | | 260 | 260 | 260 | 241 | 260 | |
| | | | $n_{2\,th}$ | | 260 | 260 | 260 | 241 | 260 | |
| 17.889 | 90 | 0.14 | $M_2$ | | 20 | 25 | 39 | 53 | 65 | |
| | | | c | | 3.2 | 2.5 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 226 | 226 | 226 | 210 | 226 | |
| | | | $n_{2\,th}$ | | 226 | 226 | 226 | 210 | 226 | |
| 19.556 | 90 | 0.10 | $M_2$ | 11 | 22 | 27 | | | | |
| | | | c | 5.8 | 2.9 | 2.3 | | | | |
| | | | $n_{2\,Eck}$ | 207 | 207 | 207 | | | | |
| | | | $n_{2\,th}$ | 207 | 207 | 207 | | | | |
| 22.489 | 90 | 0.09 | $M_2$ | 12 | 25 | 32 | | | | |
| | | | c | 5.0 | 2.5 | 2.0 | | | | |
| | | | $n_{2\,Eck}$ | 180 | 180 | 180 | | | | |
| | | | $n_{2\,th}$ | 180 | 180 | 180 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

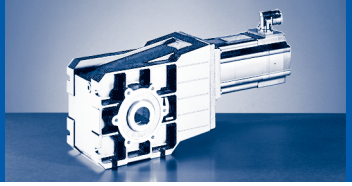
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 90$ Nm

| GKR04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 25.185 | 90 | 0.07 | $M_2$ | 14 | 28 | 35 | | | | |
| | | | c | 5.1 | 2.6 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 161 | 161 | 161 | | | | |
| | | | $n_{2\,th}$ | 161 | 161 | 161 | | | | |
| 28.963 | 90 | 0.06 | $M_2$ | 16 | 33 | 41 | | | | |
| | | | c | 4.5 | 2.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 140 | 140 | 140 | | | | |
| | | | $n_{2\,th}$ | 140 | 140 | 140 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

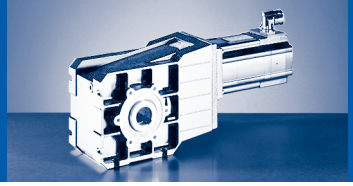


## $M_{2\,GN} \leq 240$ Nm

| GKR05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 |
| 3.565 | 116 | 4.95 | $M_2$ | | | | | | 15 | | | | | | |
| | | | c | | | | | | 5.4 | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | 1136 | | | | | | |
| | | | $n_{2\,th}$ | | | | | | 860 | | | | | | |
| 3.565 | 138 | 4.95 | $M_2$ | | | | | | | | | 33 | 26 | | 45 |
| | | | c | | | | | | | | | 4.1 | 4.0 | | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 421 | 842 | | 547 |
| | | | $n_{2\,th}$ | | | | | | | | | 421 | 812 | | 547 |
| 4.889 | 139 | 2.79 | $M_2$ | | | | | 17 | 20 | | | | | | |
| | | | c | | | | | 5.7 | 4.8 | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | 828 | 828 | | | | | | |
| | | | $n_{2\,th}$ | | | | | 739 | 717 | | | | | | |
| 4.889 | 147 | 2.79 | $M_2$ | | | | | | | 24 | 19 | 45 | 36 | | 62 |
| | | | c | | | | | | | 5.3 | 5.3 | 3.2 | 3.1 | | 2.1 |
| | | | $n_{2\,Eck}$ | | | | | | | 399 | 828 | 307 | 614 | | 399 |
| | | | $n_{2\,th}$ | | | | | | | 399 | 730 | 307 | 614 | | 399 |
| 6.257 | 150 | 1.79 | $M_2$ | | | | 17 | 22 | 26 | | | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | | | |
| | | | $n_{2\,Eck}$ | | | | 599 | 647 | 647 | | | | | | |
| | | | $n_{2\,th}$ | | | | 599 | 609 | 592 | | | | | | |
| 6.257 | 156 | 1.79 | $M_2$ | | | | | | | 32 | 25 | 58 | 47 | | 80 |
| | | | c | | | | | | | 4.4 | 4.4 | 2.6 | 2.6 | | 1.8 |
| | | | $n_{2\,Eck}$ | | | | | | | 312 | 647 | 240 | 480 | | 312 |
| | | | $n_{2\,th}$ | | | | | | | 312 | 601 | 240 | 479 | | 312 |
| 6.883 | 179 | 2.57 | $M_2$ | | | | | 24 | 28 | 35 | 27 | 64 | 51 | | 87 |
| | | | c | | | | | 5.2 | 4.4 | 4.6 | 4.6 | 2.7 | 2.7 | | 1.9 |
| | | | $n_{2\,Eck}$ | | | | | 588 | 588 | 283 | 588 | 218 | 436 | | 283 |
| | | | $n_{2\,th}$ | | | | | 441 | 427 | 283 | 431 | 218 | 388 | | 283 |
| 7.817 | 187 | 2.32 | $M_2$ | | | | 22 | 27 | 32 | 39 | 31 | 73 | 58 | | 100 |
| | | | c | | | | 6.0 | 4.8 | 4.0 | 4.2 | 4.2 | 2.5 | 2.5 | | 1.7 |
| | | | $n_{2\,Eck}$ | | | | 480 | 518 | 518 | 250 | 518 | 192 | 384 | | 250 |
| | | | $n_{2\,th}$ | | | | 399 | 382 | 370 | 249 | 373 | 192 | 335 | | 249 |
| 9.440 | 191 | 1.53 | $M_2$ | | | | 27 | 33 | 39 | 48 | 38 | 89 | 71 | 66 | 121 |
| | | | c | | | | 5.1 | 4.0 | 3.4 | 3.5 | 3.6 | 2.1 | 2.1 | 2.1 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 397 | 429 | 429 | 207 | 429 | 159 | 318 | 373 | 207 |
| | | | $n_{2\,th}$ | | | | 375 | 359 | 348 | 207 | 351 | 159 | 316 | 316 | 207 |
| 10.720 | 204 | 1.40 | $M_2$ | | | | 30 | 38 | 45 | 55 | 43 | 101 | 81 | 76 | 137 |
| | | | c | | | | 4.8 | 3.8 | 3.2 | 3.3 | 3.3 | 2.0 | 2.0 | 2.0 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 350 | 378 | 378 | 182 | 378 | 140 | 280 | 329 | 182 |
| | | | $n_{2\,th}$ | | | | 326 | 313 | 303 | 182 | 305 | 140 | 275 | 275 | 182 |
| 12.081 | 208 | 1.02 | $M_2$ | | | 25 | 34 | 42 | 51 | 62 | 48 | 114 | 91 | | 155 |
| | | | c | | | 5.7 | 4.3 | 3.4 | 2.9 | 3.0 | 3.0 | 1.8 | 1.8 | | 1.2 |
| | | | $n_{2\,Eck}$ | | | 335 | 310 | 335 | 335 | 161 | 335 | 124 | 248 | | 161 |
| | | | $n_{2\,th}$ | | | 325 | 310 | 298 | 289 | 161 | 292 | 124 | 248 | | 161 |
| 13.216 | 214 | 0.87 | $M_2$ | | | 28 | 38 | 47 | 55 | 68 | 53 | 125 | 100 | | 169 |
| | | | c | | | 5.3 | 4.1 | 3.2 | 2.7 | 2.8 | 2.9 | 1.7 | 1.7 | | 1.2 |
| | | | $n_{2\,Eck}$ | | | 307 | 284 | 307 | 307 | 148 | 307 | 114 | 227 | | 148 |
| | | | $n_{2\,th}$ | | | 304 | 284 | 280 | 271 | 148 | 274 | 114 | 227 | | 148 |
| 13.719 | 217 | 0.94 | $M_2$ | | | 29 | 39 | 48 | 58 | 70 | 55 | 129 | 104 | | 176 |
| | | | c | | | 5.2 | 4.0 | 3.1 | 2.7 | 2.8 | 2.8 | 1.7 | 1.7 | | 1.1 |
| | | | $n_{2\,Eck}$ | | | 295 | 273 | 295 | 295 | 142 | 295 | 109 | 219 | | 142 |
| | | | $n_{2\,th}$ | | | 282 | 269 | 259 | 251 | 142 | 253 | 109 | 216 | | 142 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



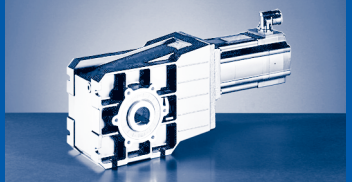


## $M_{2\,GN} \leq 240$ Nm

| GKR05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 |
| 15.008 | 223 | 0.81 | $M_2$ | | | 31 | 43 | 53 | 63 | 77 | 60 | 142 | 113 | | 192 |
| | | | c | | | 4.9 | 3.7 | 3.0 | 2.5 | 2.6 | 2.6 | 1.6 | 1.6 | | 1.1 |
| | | | $n_{2\,Eck}$ | | | 270 | 250 | 270 | 270 | 130 | 270 | 100 | 200 | | 130 |
| | | | $n_{2\,th}$ | | | 264 | 250 | 243 | 235 | 130 | 237 | 100 | 200 | | 130 |
| 16.857 | 240 | 0.60 | $M_2$ | | | 35 | 48 | 60 | 71 | 87 | 68 | 159 | 127 | | 216 |
| | | | c | | | 4.7 | 3.6 | 2.8 | 2.4 | 2.5 | 2.5 | 1.5 | 1.5 | | 1.0 |
| | | | $n_{2\,Eck}$ | | | 240 | 223 | 240 | 240 | 116 | 240 | 89 | 178 | | 116 |
| | | | $n_{2\,th}$ | | | 240 | 222 | 240 | 240 | 116 | 240 | 89 | 178 | | 116 |
| 19.143 | 240 | 0.55 | $M_2$ | | | 40 | 55 | 68 | 81 | 99 | 77 | 181 | 145 | | |
| | | | c | | | 4.1 | 3.1 | 2.5 | 2.1 | 2.2 | 2.2 | 1.3 | 1.3 | | |
| | | | $n_{2\,Eck}$ | | | 212 | 196 | 212 | 212 | 102 | 212 | 78 | 157 | | |
| | | | $n_{2\,th}$ | | | 212 | 196 | 212 | 212 | 102 | 212 | 78 | 157 | | |
| 20.650 | 231 | 0.44 | $M_2$ | | 28 | | | | | | | | | | |
| | | | c | | 5.7 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 196 | | | | | | | | | | |
| | | | $n_{2\,th}$ | | 196 | | | | | | | | | | |
| 20.650 | 240 | 0.44 | $M_2$ | | | 44 | 60 | 74 | 87 | 107 | 83 | 196 | 157 | 147 | |
| | | | c | | | 3.8 | 2.9 | 2.3 | 2.0 | 2.0 | 2.0 | 1.2 | 1.2 | 1.2 | |
| | | | $n_{2\,Eck}$ | | | 196 | 182 | 196 | 196 | 94 | 196 | 73 | 145 | 171 | |
| | | | $n_{2\,th}$ | | | 196 | 182 | 196 | 196 | 94 | 196 | 73 | 145 | 171 | |
| 23.450 | 240 | 0.41 | $M_2$ | | 32 | 50 | 68 | 84 | 99 | 122 | 95 | 223 | 178 | 167 | |
| | | | c | | 5.2 | 3.4 | 2.6 | 2.0 | 1.7 | 1.8 | 1.8 | 1.1 | 1.1 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 173 | 173 | 160 | 173 | 173 | 83 | 173 | 64 | 128 | 150 | |
| | | | $n_{2\,th}$ | | 173 | 173 | 160 | 173 | 173 | 83 | 173 | 64 | 128 | 147 | |
| 26.878 | 240 | 0.27 | $M_2$ | | 37 | 57 | 78 | 96 | 114 | | | | | | |
| | | | c | | 5.1 | 3.3 | 2.5 | 2.0 | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | | 151 | 151 | 140 | 151 | 151 | | | | | | |
| | | | $n_{2\,th}$ | | 151 | 151 | 140 | 151 | 151 | | | | | | |
| 30.522 | 240 | 0.25 | $M_2$ | 33 | 42 | 65 | 89 | 109 | 130 | | | | | | |
| | | | c | 5.6 | 4.5 | 2.9 | 2.2 | 1.8 | 1.5 | | | | | | |
| | | | $n_{2\,Eck}$ | 133 | 133 | 133 | 123 | 133 | 133 | | | | | | |
| | | | $n_{2\,th}$ | 133 | 133 | 133 | 123 | 133 | 133 | | | | | | |
| 33.433 | 240 | 0.19 | $M_2$ | 36 | 46 | 72 | 97 | 120 | 142 | | | | | | |
| | | | c | 5.1 | 4.1 | 2.7 | 2.0 | 1.6 | 1.4 | | | | | | |
| | | | $n_{2\,Eck}$ | 121 | 121 | 121 | 112 | 121 | 121 | | | | | | |
| | | | $n_{2\,th}$ | 121 | 121 | 121 | 112 | 121 | 121 | | | | | | |
| 37.967 | 240 | 0.18 | $M_2$ | 42 | 53 | 82 | 111 | 136 | 162 | | | | | | |
| | | | c | 4.5 | 3.6 | 2.4 | 1.8 | 1.4 | 1.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 107 | 107 | 107 | 99 | 107 | 107 | | | | | | |
| | | | $n_{2\,th}$ | 107 | 107 | 107 | 99 | 107 | 107 | | | | | | |
| 43.267 | 240 | 0.12 | $M_2$ | 48 | 60 | | | | | | | | | | |
| | | | c | 4.4 | 3.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 94 | 94 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 94 | 94 | | | | | | | | | | |
| 49.133 | 240 | 0.11 | $M_2$ | 54 | 68 | | | | | | | | | | |
| | | | c | 3.9 | 3.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 82 | 82 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 82 | 82 | | | | | | | | | | |
| 52.510 | 240 | 0.09 | $M_2$ | 58 | 73 | | | | | | | | | | |
| | | | c | 3.6 | 2.9 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 77 | 77 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 77 | 77 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 240$ Nm

| GKR05-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 |
| 59.630 | 240 | 0.08 | $M_2$ | 66 | 84 | | | | | | | | | | |
| | | | c | 3.2 | 2.6 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 68 | 68 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 68 | 68 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

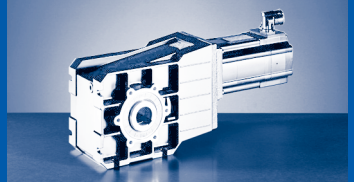
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 450$ Nm

| GKR06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 3.431 | 188 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 31<br>5.8<br>437<br>437 | 25<br>5.7<br>874<br>765 |
| 3.431 | 200 | 9.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 4.706 | 215 | 5.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 43<br>4.8<br>319<br>319 | 34<br>4.8<br>638<br>623 |
| 4.706 | 250 | 5.61 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 6.022 | 179 | 3.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 21<br>5.9<br>673<br>586 | 25<br>5.0<br>673<br>568 | | | | |
| 6.022 | 231 | 3.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 55<br>4.0<br>249<br>249 | 44<br>4.0<br>498<br>498 |
| 6.022 | 280 | 3.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 6.481 | 350 | 5.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 59<br>5.7<br>231<br>231 | 47<br>5.6<br>463<br>404 |
| 7.146 | 348 | 4.54 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 65<br>5.1<br>210<br>210 | 52<br>5.1<br>420<br>359 |
| 8.889 | 405 | 3.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 81<br>4.8<br>169<br>169 | 65<br>4.8<br>338<br>330 |
| 8.889 | 408 | 3.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.800 | 384 | 2.93 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 90<br>4.1<br>153<br>153 | 72<br>4.1<br>306<br>291 |
| 11.376 | 337 | 2.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 39<br>5.9<br>356<br>310 | 47<br>5.0<br>356<br>301 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 450$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKR06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 23<br>5.8<br>1027<br>766 | 43<br>3.9<br>568<br>568 | 35<br>3.8<br>1180<br>702 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.58 | 188 | 3.431 |
| | | | | | 51<br>3.8<br>437<br>437 | 44<br>3.4<br>940<br>687 | 74<br>2.7<br>437<br>437 | 55<br>2.8<br>940<br>657 | 97<br>2.1<br>393<br>393 | 68<br>2.3<br>940<br>627 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.58 | 200 | 3.431 |
| 32<br>4.8<br>749<br>625 | 59<br>3.3<br>414<br>414 | 48<br>3.1<br>861<br>573 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.61 | 215 | 4.706 |
| | | | | 32<br>5.6<br>765<br>642 | 70<br>3.5<br>319<br>319 | 61<br>3.1<br>685<br>571 | 101<br>2.4<br>319<br>319 | 76<br>2.5<br>685<br>546 | 133<br>1.9<br>287<br>287 | 93<br>2.1<br>685<br>522 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.61 | 250 | 4.706 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.66 | 179 | 6.022 |
| 42<br>4.1<br>585<br>546 | 76<br>2.7<br>324<br>324 | 62<br>2.6<br>673<br>501 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.66 | 231 | 6.022 |
| | | | 50<br>5.3<br>249<br>249 | 41<br>4.9<br>598<br>566 | 90<br>3.1<br>249<br>249 | 79<br>2.7<br>536<br>504 | 130<br>2.1<br>249<br>249 | 97<br>2.2<br>536<br>482 | 171<br>1.6<br>224<br>224 | 119<br>1.8<br>536<br>446 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.66 | 280 | 6.022 |
| 44<br>5.7<br>544<br>405 | 81<br>3.9<br>301<br>301 | 66<br>3.7<br>625<br>371 | | 44<br>5.7<br>555<br>404 | 96<br>3.6<br>231<br>231 | 84<br>3.2<br>498<br>358 | 139<br>2.5<br>231<br>231 | 104<br>2.6<br>498<br>342 | 183<br>1.9<br>208<br>208 | 128<br>2.1<br>498<br>326 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.11 | 350 | 6.481 |
| 49<br>5.1<br>493<br>360 | 89<br>3.5<br>273<br>273 | 73<br>3.4<br>567<br>329 | 59<br>5.6<br>210<br>210 | 49<br>5.1<br>504<br>359 | 106<br>3.2<br>210<br>210 | 93<br>2.8<br>451<br>317 | 154<br>2.2<br>210<br>210 | 115<br>2.3<br>451<br>303 | 202<br>1.7<br>189<br>189 | 141<br>1.9<br>451<br>284 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.54 | 348 | 7.146 |
| 61<br>4.8<br>397<br>331 | 111<br>3.3<br>219<br>219 | 91<br>3.1<br>456<br>303 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.23 | 405 | 8.889 |
| | | | 74<br>5.3<br>169<br>169 | 61<br>4.8<br>405<br>331 | 132<br>3.0<br>169<br>169 | 116<br>2.7<br>363<br>293 | 192<br>2.1<br>169<br>169 | 143<br>2.2<br>363<br>280 | 252<br>1.6<br>152<br>152 | 176<br>1.8<br>363<br>258 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.23 | 408 | 8.889 |
| 68<br>4.1<br>360<br>291 | 123<br>2.8<br>199<br>199 | 101<br>2.7<br>413<br>266 | 83<br>4.5<br>153<br>153 | 68<br>4.1<br>367<br>291 | 146<br>2.6<br>153<br>153 | 129<br>2.3<br>329<br>257 | 212<br>1.8<br>153<br>153 | 159<br>1.9<br>329<br>240 | 278<br>1.4<br>138<br>138 | 194<br>1.5<br>329<br>214 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.93 | 384 | 9.800 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.21 | 337 | 11.376 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

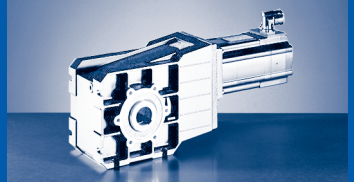
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 450$ Nm

| GKR06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 11.376 | 436 | 2.21 | $M_2$ | | | | | | | | | 105 | 84 |
| | | | c | | | | | | | | | 4.0 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 132 | 264 |
| | | | $n_{2\,th}$ | | | | | | | | | 132 | 264 |
| 12.444 | 353 | 1.89 | $M_2$ | | | | | 43 | 51 | | | | |
| | | | c | | | | | 5.6 | 4.8 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 326 | 326 | | | | |
| | | | $n_{2\,th}$ | | | | | 290 | 282 | | | | |
| 12.444 | 450 | 1.89 | $M_2$ | | | | | | | | | 115 | 92 |
| | | | c | | | | | | | | | 3.8 | 3.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | | 121 | 241 |
| | | | $n_{2\,th}$ | | | | | | | | | 121 | 241 |
| 13.720 | 389 | 1.73 | $M_2$ | | | | | 47 | 56 | | | | |
| | | | c | | | | | 5.6 | 4.8 | | | | |
| | | | $n_{2\,Eck}$ | | | | | 295 | 295 | | | | |
| | | | $n_{2\,th}$ | | | | | 263 | 255 | | | | |
| 13.720 | 426 | 1.73 | $M_2$ | | | | | | | 68 | 53 | 127 | 102 |
| | | | c | | | | | | | 5.5 | 5.5 | 3.3 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 142 | 295 | 109 | 219 |
| | | | $n_{2\,th}$ | | | | | | | 142 | 262 | 109 | 219 |
| 15.873 | 379 | 1.32 | $M_2$ | | | | 44 | 55 | 66 | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | 236 | 255 | 255 | | | | |
| | | | $n_{2\,th}$ | | | | 236 | 242 | 236 | | | | |
| 15.873 | 450 | 1.32 | $M_2$ | | | | | | | 79 | 62 | 148 | 118 |
| | | | c | | | | | | | 5.0 | 5.0 | 3.0 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | | | 123 | 255 | 95 | 189 |
| | | | $n_{2\,th}$ | | | | | | | 123 | 244 | 95 | 189 |
| 17.500 | 418 | 1.23 | $M_2$ | | | | 49 | 61 | 72 | | | | |
| | | | c | | | | 6.0 | 4.8 | 4.0 | | | | |
| | | | $n_{2\,Eck}$ | | | | 214 | 231 | 231 | | | | |
| | | | $n_{2\,th}$ | | | | 214 | 220 | 214 | | | | |
| 17.500 | 450 | 1.23 | $M_2$ | | | | | | | 88 | 69 | 163 | 131 |
| | | | c | | | | | | | 4.5 | 4.5 | 2.7 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | | | 111 | 231 | 86 | 171 |
| | | | $n_{2\,th}$ | | | | | | | 111 | 218 | 86 | 171 |
| 19.444 | 398 | 0.99 | $M_2$ | | | | 55 | 68 | 81 | | | | |
| | | | c | | | | 5.1 | 4.1 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | | | | 193 | 208 | 208 | | | | |
| | | | $n_{2\,th}$ | | | | 193 | 208 | 208 | | | | |
| 19.444 | 450 | 0.99 | $M_2$ | | | | | | | 98 | 77 | 182 | 146 |
| | | | c | | | | | | | 4.1 | 4.1 | 2.4 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | | | | 100 | 208 | 77 | 154 |
| | | | $n_{2\,th}$ | | | | | | | 100 | 208 | 77 | 154 |
| 21.438 | 439 | 0.93 | $M_2$ | | | | 60 | 75 | 89 | | | | |
| | | | c | | | | 5.1 | 4.1 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | | | | 175 | 189 | 189 | | | | |
| | | | $n_{2\,th}$ | | | | 175 | 189 | 189 | | | | |
| 21.438 | 450 | 0.93 | $M_2$ | | | | | | | 109 | 85 | 201 | 161 |
| | | | c | | | | | | | 3.7 | 3.7 | 2.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 91 | 189 | 70 | 140 |
| | | | $n_{2\,th}$ | | | | | | | 91 | 189 | 70 | 140 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 450$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKR06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 78 | 143 | 117 | 96 | 78 | 170 | 149 | 247 | 184 | 323 | 226 | $M_2$ | | | |
| 4.0 | 2.7 | 2.6 | 4.4 | 4.0 | 2.5 | 2.2 | 1.8 | 1.8 | 1.3 | 1.5 | c | | | |
| 310 | 171 | 356 | 132 | 317 | 132 | 284 | 132 | 284 | 119 | 284 | $n_{2\,Eck}$ | 2.21 | 436 | 11.376 |
| 289 | 171 | 265 | 132 | 289 | 132 | 256 | 132 | 237 | 119 | 211 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 1.89 | 353 | 12.444 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 86 | 157 | 128 | 105 | 86 | 186 | 164 | 270 | 202 | 354 | 247 | $M_2$ | | | |
| 3.8 | 2.6 | 2.5 | 4.1 | 3.8 | 2.4 | 2.1 | 1.7 | 1.7 | 1.3 | 1.4 | c | | | |
| 283 | 157 | 326 | 121 | 289 | 121 | 259 | 121 | 259 | 109 | 259 | $n_{2\,Eck}$ | 1.89 | 450 | 12.444 |
| 270 | 157 | 248 | 121 | 270 | 121 | 240 | 121 | 218 | 108 | 196 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 1.73 | 389 | 13.720 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 95 | 174 | 142 | 117 | 95 | 206 | 181 | 298 | 223 | 391 | 273 | $M_2$ | | | |
| 3.3 | 2.2 | 2.1 | 3.6 | 3.3 | 2.0 | 1.8 | 1.4 | 1.5 | 1.1 | 1.2 | c | | | |
| 257 | 142 | 295 | 109 | 262 | 109 | 235 | 109 | 235 | 98 | 235 | $n_{2\,Eck}$ | 1.73 | 426 | 13.720 |
| 238 | 142 | 218 | 109 | 238 | 109 | 204 | 109 | 182 | 98 | 165 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 1.32 | 379 | 15.873 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 111 | 201 | 164 | 135 | 111 | 239 | 210 | 346 | 258 | | 316 | $M_2$ | | | |
| 3.0 | 2.0 | 2.0 | 3.2 | 3.0 | 1.9 | 1.7 | 1.3 | 1.3 | | 1.1 | c | | | |
| 222 | 123 | 255 | 95 | 227 | 95 | 203 | 95 | 203 | | 203 | $n_{2\,Eck}$ | 1.32 | 450 | 15.873 |
| 222 | 123 | 206 | 95 | 223 | 95 | 189 | 95 | 172 | | 158 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 1.23 | 418 | 17.500 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 122 | 222 | 181 | 150 | 122 | 264 | 232 | 382 | 285 | | | $M_2$ | | | |
| 2.7 | 1.8 | 1.8 | 2.9 | 2.7 | 1.7 | 1.5 | 1.2 | 1.2 | | | c | | | |
| 201 | 111 | 231 | 86 | 206 | 86 | 184 | 86 | 184 | | | $n_{2\,Eck}$ | 1.23 | 450 | 17.500 |
| 199 | 111 | 177 | 86 | 199 | 86 | 164 | 86 | 150 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 0.99 | 398 | 19.444 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 136 | 248 | 202 | 167 | 136 | 294 | 258 | 425 | 317 | | | $M_2$ | | | |
| 2.4 | 1.7 | 1.6 | 2.7 | 2.4 | 1.5 | 1.4 | 1.1 | 1.1 | | | c | | | |
| 181 | 100 | 208 | 77 | 185 | 77 | 166 | 77 | 166 | | | $n_{2\,Eck}$ | 0.99 | 450 | 19.444 |
| 181 | 100 | 177 | 77 | 185 | 77 | 163 | 77 | 149 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | 0.93 | 439 | 21.438 |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 151 | 274 | 223 | 185 | 151 | 325 | 284 | | | | | $M_2$ | | | |
| 2.2 | 1.5 | 1.4 | 2.4 | 2.2 | 1.4 | 1.2 | | | | | c | | | |
| 164 | 91 | 189 | 70 | 168 | 70 | 150 | | | | | $n_{2\,Eck}$ | 0.93 | 450 | 21.438 |
| 164 | 91 | 153 | 70 | 167 | 70 | 141 | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

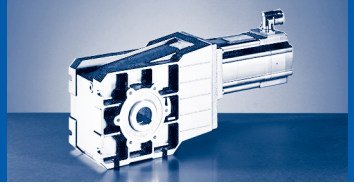
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 450$ Nm

| GKR06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 25.309 | 416 | 0.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 72<br>4.7<br>148<br>148 | 89<br>3.7<br>160<br>160 | 106<br>3.1<br>160<br>160 | | | | |
| 25.309 | 450 | 0.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 129<br>3.4<br>77<br>77 | 101<br>3.6<br>160<br>160 | 238<br>1.9<br>59<br>59 | 190<br>2.1<br>119<br>119 |
| 27.903 | 450 | 0.59 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 79<br>4.6<br>134<br>134 | 98<br>3.7<br>145<br>145 | 117<br>3.1<br>145<br>145 | 143<br>3.1<br>70<br>70 | 111<br>3.2<br>145<br>145 | 263<br>1.7<br>54<br>54 | 210<br>1.9<br>108<br>108 |
| 31.481 | 291 | 0.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 43<br>5.3<br>129<br>129 | | | | | | | | |
| 31.481 | 431 | 0.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 66<br>5.1<br>129<br>129 | 90<br>3.9<br>119<br>119 | 111<br>3.1<br>129<br>129 | 132<br>2.6<br>129<br>129 | | | | |
| 31.481 | 450 | 0.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 161<br>2.7<br>62<br>62 | 126<br>2.9<br>129<br>129 | 297<br>1.5<br>48<br>48 | 238<br>1.7<br>95<br>95 |
| 34.708 | 321 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 47<br>5.3<br>117<br>117 | | | | | | | | |
| 34.708 | 450 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 73<br>4.8<br>117<br>117 | 99<br>3.7<br>108<br>108 | 123<br>2.9<br>117<br>117 | 146<br>2.5<br>117<br>117 | 179<br>2.5<br>56<br>56 | 139<br>2.6<br>117<br>117 | 328<br>1.4<br>43<br>43 | 262<br>1.5<br>86<br>86 |
| 40.741 | 302 | 0.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 44<br>5.9<br>99<br>99 | 56<br>4.7<br>99<br>99 | | | | | | | | |
| 40.741 | 447 | 0.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 86<br>4.5<br>99<br>99 | 117<br>3.5<br>92<br>92 | 144<br>2.8<br>99<br>99 | 172<br>2.3<br>99<br>99 | | | | |
| 44.917 | 333 | 0.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 49<br>5.9<br>90<br>90 | 62<br>4.7<br>90<br>90 | | | | | | | | |
| 44.917 | 450 | 0.27 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 95<br>4.2<br>90<br>90 | 129<br>3.2<br>84<br>83 | 160<br>2.5<br>90<br>90 | 190<br>2.1<br>90<br>90 | | | | |
| 49.444 | 306 | 0.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 54<br>4.9<br>82<br>82 | 68<br>3.9<br>82<br>82 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\ GN} \leq 450$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKR06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\ GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\ 230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\ 400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.63 | 416 | 25.309 |
| 178<br>2.1<br>139<br>139 | 323<br>1.4<br>77<br>77 | 263<br>1.4<br>160<br>150 | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.63 | 450 | 25.309 |
| 197<br>1.9<br>126<br>126 | 357<br>1.3<br>70<br>70 | 291<br>1.3<br>145<br>130 | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.59 | 450 | 27.903 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.46 | 291 | 31.481 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.46 | 431 | 31.481 |
| 223<br>1.7<br>112<br>112 | 403<br>1.1<br>62<br>62 | 329<br>1.1<br>129<br>129 | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.46 | 450 | 31.481 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.43 | 321 | 34.708 |
| 246<br>1.6<br>102<br>102 | 445<br>1.0<br>56<br>56 | 363<br>1.0<br>117<br>114 | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.43 | 450 | 34.708 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.28 | 302 | 40.741 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.28 | 447 | 40.741 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.27 | 333 | 44.917 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.27 | 450 | 44.917 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\ Eck}$<br>$n_{2\ th}$ | 0.21 | 306 | 49.444 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

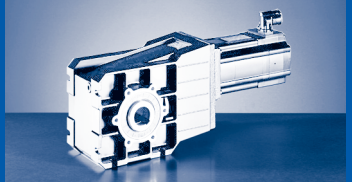
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 450$ Nm

| GKR06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 49.444 | 450 | 0.21 | $M_2$ | | | 105 | 143 | 176 | 209 | | | | |
| | | | c | | | 3.8 | 2.9 | 2.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | | | 82 | 76 | 82 | 82 | | | | |
| | | | $n_{2\,th}$ | | | 82 | 76 | 82 | 82 | | | | |
| 54.513 | 337 | 0.20 | $M_2$ | 60 | 75 | | | | | | | | |
| | | | c | 4.9 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 74 | 74 | | | | | | | | |
| | | | $n_{2\,th}$ | 74 | 74 | | | | | | | | |
| 54.513 | 450 | 0.20 | $M_2$ | | | 116 | 158 | 195 | 231 | | | | |
| | | | c | | | 3.4 | 2.6 | 2.1 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | | | 74 | 69 | 74 | 74 | | | | |
| | | | $n_{2\,th}$ | | | 74 | 69 | 74 | 74 | | | | |
| 62.500 | 302 | 0.13 | $M_2$ | 69 | 87 | | | | | | | | |
| | | | c | 3.8 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 65 | 65 | | | | | | | | |
| | | | $n_{2\,th}$ | 65 | 65 | | | | | | | | |
| 68.906 | 333 | 0.13 | $M_2$ | 76 | 96 | | | | | | | | |
| | | | c | 3.8 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 59 | 59 | | | | | | | | |
| | | | $n_{2\,th}$ | 59 | 59 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\ GN} \leq 450$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKR06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\ GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\ 230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\ 400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\ Eck}$ $n_{2\ th}$ | 0.21 | 450 | 49.444 |
| | | | | | | | | | | | $M_2$ c $n_{2\ Eck}$ $n_{2\ th}$ | 0.20 | 337 | 54.513 |
| | | | | | | | | | | | $M_2$ c $n_{2\ Eck}$ $n_{2\ th}$ | 0.20 | 450 | 54.513 |
| | | | | | | | | | | | $M_2$ c $n_{2\ Eck}$ $n_{2\ th}$ | 0.13 | 302 | 62.500 |
| | | | | | | | | | | | $M_2$ c $n_{2\ Eck}$ $n_{2\ th}$ | 0.13 | 333 | 68.906 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

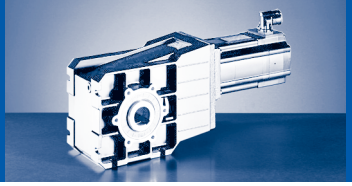
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 90$ Nm

| GKR04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 5.185 | 69 | 0.81 | $M_2$ | 9 | 31 | 19 |
| | | | c | 5.1 | 1.7 | 2.5 |
| | | | $n_{2\,Eck}$ | 762 | 658 | 781 |
| | | | $n_{2\,th}$ | 697 | 533 | 611 |
| 5.963 | 72 | 0.72 | $M_2$ | 11 | 35 | 22 |
| | | | c | 4.6 | 1.5 | 2.3 |
| | | | $n_{2\,Eck}$ | 662 | 572 | 679 |
| | | | $n_{2\,th}$ | 597 | 441 | 521 |
| 7.111 | 78 | 0.45 | $M_2$ | 13 | 42 | 27 |
| | | | c | 4.2 | 1.4 | 2.1 |
| | | | $n_{2\,Eck}$ | 556 | 480 | 570 |
| | | | $n_{2\,th}$ | 543 | 404 | 480 |
| 8.178 | 81 | 0.41 | $M_2$ | 15 | 49 | 31 |
| | | | c | 3.8 | 1.3 | 1.9 |
| | | | $n_{2\,Eck}$ | 483 | 417 | 495 |
| | | | $n_{2\,th}$ | 465 | 337 | 404 |
| 9.101 | 84 | 3.27 | $M_2$ | 17 | 54 | 34 |
| | | | c | 3.5 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 434 | 375 | 445 |
| | | | $n_{2\,th}$ | 434 | 342 | 414 |
| 10.466 | 89 | 0.30 | $M_2$ | 19 | 63 | 40 |
| | | | c | 3.2 | 1.1 | 1.6 |
| | | | $n_{2\,Eck}$ | 377 | 326 | 387 |
| | | | $n_{2\,th}$ | 377 | 286 | 343 |
| 11.449 | 90 | 0.26 | $M_2$ | 21 | | 43 |
| | | | c | 3.0 | | 1.5 |
| | | | $n_{2\,Eck}$ | 345 | | 354 |
| | | | $n_{2\,th}$ | 345 | | 316 |
| 12.698 | 90 | 1.99 | $M_2$ | 24 | | 48 |
| | | | c | 2.7 | | 1.3 |
| | | | $n_{2\,Eck}$ | 311 | | 319 |
| | | | $n_{2\,th}$ | 311 | | 312 |
| 14.603 | 90 | 0.18 | $M_2$ | 27 | | 55 |
| | | | c | 2.4 | | 1.2 |
| | | | $n_{2\,Eck}$ | 271 | | 277 |
| | | | $n_{2\,th}$ | 270 | | 258 |
| 15.556 | 90 | 1.47 | $M_2$ | 29 | | 59 |
| | | | c | 2.2 | | 1.1 |
| | | | $n_{2\,Eck}$ | 254 | | 260 |
| | | | $n_{2\,th}$ | 254 | | 260 |
| 17.889 | 90 | 0.14 | $M_2$ | 34 | | |
| | | | c | 1.9 | | |
| | | | $n_{2\,Eck}$ | 221 | | |
| | | | $n_{2\,th}$ | 221 | | |
| 19.556 | 90 | 0.10 | $M_2$ | 37 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 202 | | |
| | | | $n_{2\,th}$ | 202 | | |
| 22.489 | 90 | 0.09 | $M_2$ | 42 | | |
| | | | c | 1.5 | | |
| | | | $n_{2\,Eck}$ | 176 | | |
| | | | $n_{2\,th}$ | 176 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 90$ Nm

| GKR04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 25.185 | 90 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 48<br>1.6<br>157<br>157 | | |
| 28.963 | 90 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 55<br>1.4<br>136<br>136 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

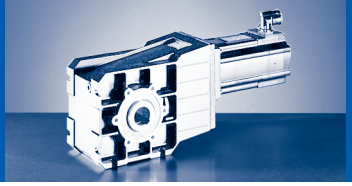
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 240$ Nm

| GKR05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 3.565 | 138 | 4.95 | $M_2$ | | 20 | | 40 | 22 | 36 | 17 |
| | | | c | | 4.9 | | 3.3 | 5.5 | 2.9 | 5.4 |
| | | | $n_{2\,Eck}$ | | 957 | | 459 | 561 | 969 | 1150 |
| | | | $n_{2\,th}$ | | 843 | | 459 | 561 | 757 | 858 |
| 4.889 | 147 | 2.79 | $M_2$ | | 28 | 18 | 55 | 30 | 50 | 24 |
| | | | c | | 3.8 | 5.7 | 2.6 | 4.3 | 2.2 | 4.2 |
| | | | $n_{2\,Eck}$ | | 698 | 828 | 334 | 409 | 707 | 839 |
| | | | $n_{2\,th}$ | | 687 | 739 | 334 | 409 | 616 | 699 |
| 6.257 | 156 | 1.79 | $M_2$ | | 37 | 23 | 70 | 39 | 64 | 31 |
| | | | c | | 3.2 | 4.7 | 2.1 | 3.6 | 1.8 | 3.5 |
| | | | $n_{2\,Eck}$ | | 545 | 647 | 261 | 320 | 552 | 655 |
| | | | $n_{2\,th}$ | | 545 | 608 | 261 | 320 | 501 | 574 |
| 6.883 | 179 | 2.57 | $M_2$ | | 40 | 25 | 77 | 43 | 70 | 34 |
| | | | c | | 3.3 | 4.9 | 2.2 | 3.7 | 1.9 | 3.6 |
| | | | $n_{2\,Eck}$ | | 495 | 588 | 238 | 291 | 502 | 596 |
| | | | $n_{2\,th}$ | | 404 | 437 | 238 | 291 | 356 | 412 |
| 7.817 | 187 | 2.32 | $M_2$ | | 46 | 29 | 88 | 48 | 80 | 39 |
| | | | c | | 3.0 | 4.5 | 2.0 | 3.4 | 1.8 | 3.3 |
| | | | $n_{2\,Eck}$ | | 436 | 518 | 209 | 256 | 442 | 525 |
| | | | $n_{2\,th}$ | | 350 | 379 | 209 | 256 | 299 | 356 |
| 9.440 | 191 | 1.53 | $M_2$ | | 56 | 35 | 107 | 59 | 96 | 48 |
| | | | c | | 2.6 | 3.8 | 1.7 | 2.9 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 361 | 429 | 173 | 212 | 366 | 434 |
| | | | $n_{2\,th}$ | | 329 | 356 | 173 | 212 | 266 | 335 |
| 10.720 | 204 | 1.40 | $M_2$ | | 63 | 40 | 121 | 67 | 110 | 54 |
| | | | c | | 2.4 | 3.6 | 1.6 | 2.7 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 318 | 378 | 153 | 187 | 322 | 383 |
| | | | $n_{2\,th}$ | | 286 | 310 | 153 | 187 | 227 | 292 |
| 12.081 | 208 | 1.02 | $M_2$ | | 71 | 45 | 137 | 76 | 124 | 61 |
| | | | c | | 2.2 | 3.3 | 1.5 | 2.5 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 282 | 335 | 135 | 166 | 286 | 339 |
| | | | $n_{2\,th}$ | | 274 | 295 | 135 | 166 | 218 | 279 |
| 13.216 | 214 | 0.87 | $M_2$ | | 78 | 49 | 150 | 83 | 135 | 67 |
| | | | c | | 2.1 | 3.1 | 1.4 | 2.3 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 258 | 307 | 124 | 151 | 261 | 310 |
| | | | $n_{2\,th}$ | | 258 | 277 | 124 | 151 | 204 | 262 |
| 13.719 | 217 | 0.94 | $M_2$ | | 81 | 51 | 156 | 86 | 141 | 69 |
| | | | c | | 2.0 | 3.0 | 1.4 | 2.3 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 249 | 295 | 119 | 146 | 252 | 299 |
| | | | $n_{2\,th}$ | | 238 | 256 | 119 | 146 | 185 | 242 |
| 15.008 | 223 | 0.81 | $M_2$ | 27 | 89 | 56 | 171 | 94 | 154 | 76 |
| | | | c | 5.7 | 1.9 | 2.8 | 1.3 | 2.1 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | 263 | 227 | 270 | 109 | 133 | 230 | 273 |
| | | | $n_{2\,th}$ | 263 | 221 | 240 | 109 | 133 | 174 | 227 |
| 16.857 | 240 | 0.60 | $M_2$ | 31 | 100 | 63 | 192 | 106 | 173 | 86 |
| | | | c | 5.4 | 1.8 | 2.7 | 1.2 | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 234 | 202 | 240 | 97 | 119 | 205 | 243 |
| | | | $n_{2\,th}$ | 234 | 202 | 240 | 97 | 119 | 178 | 213 |
| 19.143 | 240 | 0.55 | $M_2$ | 35 | 114 | 72 | 218 | 121 | | 97 |
| | | | c | 4.8 | 1.6 | 2.4 | 1.1 | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | 206 | 178 | 212 | 85 | 105 | | 214 |
| | | | $n_{2\,th}$ | 206 | 178 | 212 | 85 | 104 | | 188 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 240$ Nm

| GKR05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 20.650 | 240 | 0.44 | $M_2$ | 38 | 123 | 77 | | 131 | | 105 |
| | | | c | 4.4 | 1.5 | 2.2 | | 1.7 | | 1.6 |
| | | | $n_{2\,Eck}$ | 191 | 165 | 196 | | 97 | | 199 |
| | | | $n_{2\,th}$ | 191 | 165 | 196 | | 97 | | 174 |
| 23.450 | 240 | 0.41 | $M_2$ | 43 | 140 | 88 | | 149 | | 120 |
| | | | c | 3.9 | 1.3 | 1.9 | | 1.5 | | 1.4 |
| | | | $n_{2\,Eck}$ | 168 | 145 | 173 | | 85 | | 175 |
| | | | $n_{2\,th}$ | 168 | 145 | 173 | | 85 | | 153 |
| 26.878 | 240 | 0.27 | $M_2$ | 50 | 160 | 101 | | | | |
| | | | c | 3.9 | 1.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 147 | 127 | 151 | | | | |
| | | | $n_{2\,th}$ | 147 | 127 | 151 | | | | |
| 30.522 | 240 | 0.25 | $M_2$ | 57 | 182 | 115 | | | | |
| | | | c | 3.4 | 1.1 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 129 | 112 | 133 | | | | |
| | | | $n_{2\,th}$ | 129 | 112 | 133 | | | | |
| 33.433 | 240 | 0.19 | $M_2$ | 62 | 200 | 126 | | | | |
| | | | c | 3.1 | 1.0 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 118 | 102 | 121 | | | | |
| | | | $n_{2\,th}$ | 118 | 102 | 121 | | | | |
| 37.967 | 240 | 0.18 | $M_2$ | 71 | | 144 | | | | |
| | | | c | 2.7 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 104 | | 107 | | | | |
| | | | $n_{2\,th}$ | 104 | | 107 | | | | |
| 43.267 | 240 | 0.12 | $M_2$ | 81 | | | | | | |
| | | | c | 2.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 91 | | | | | | |
| | | | $n_{2\,th}$ | 91 | | | | | | |
| 49.133 | 240 | 0.11 | $M_2$ | 92 | | | | | | |
| | | | c | 2.4 | | | | | | |
| | | | $n_{2\,Eck}$ | 80 | | | | | | |
| | | | $n_{2\,th}$ | 80 | | | | | | |
| 52.510 | 240 | 0.09 | $M_2$ | 99 | | | | | | |
| | | | c | 2.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 75 | | | | | | |
| | | | $n_{2\,th}$ | 75 | | | | | | |
| 59.630 | 240 | 0.08 | $M_2$ | 112 | | | | | | |
| | | | c | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 66 | | | | | | |
| | | | $n_{2\,th}$ | 66 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

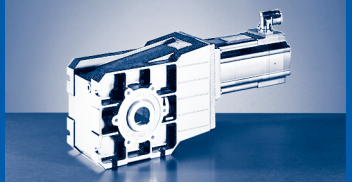
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 450$ Nm

| GKR06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 3.431 | 200 | 9.58 | $M_2$ | | | | 37 | | 34 | | 69 | 34 | 61 | 30 |
| | | | c | | | | 5.0 | | 4.3 | | 2.8 | 4.9 | 2.4 | 4.6 |
| | | | $n_{2\,Eck}$ | | | | 477 | | 1007 | | 490 | 670 | 1014 | 1198 |
| | | | $n_{2\,th}$ | | | | 476 | | 722 | | 490 | 670 | 638 | 733 |
| 4.706 | 250 | 5.61 | $M_2$ | | | | 52 | | 47 | | 95 | 47 | 84 | 41 |
| | | | c | | | | 4.5 | | 3.9 | | 2.5 | 4.5 | 2.2 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | 347 | | 734 | | 357 | 489 | 740 | 873 |
| | | | $n_{2\,th}$ | | | | 347 | | 600 | | 357 | 489 | 531 | 608 |
| 6.022 | 241 | 3.66 | $M_2$ | | 34 | | | | | | | | | |
| | | | c | | 5.1 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 566 | | | | | | | | | |
| | | | $n_{2\,th}$ | | 566 | | | | | | | | | |
| 6.022 | 280 | 3.66 | $M_2$ | | | | 67 | | 60 | | 121 | 60 | 108 | 53 |
| | | | c | | | | 4.0 | | 3.4 | | 2.2 | 3.9 | 2.0 | 3.7 |
| | | | $n_{2\,Eck}$ | | | | 272 | | 574 | | 279 | 382 | 578 | 683 |
| | | | $n_{2\,th}$ | | | | 271 | | 529 | | 279 | 382 | 467 | 517 |
| 6.481 | 350 | 5.11 | $M_2$ | | | | 71 | | 64 | | 130 | 64 | 115 | 56 |
| | | | c | | | | 4.6 | | 4.0 | | 2.6 | 4.6 | 2.3 | 4.3 |
| | | | $n_{2\,Eck}$ | | | | 252 | | 533 | | 259 | 355 | 537 | 634 |
| | | | $n_{2\,th}$ | | | | 252 | | 376 | | 259 | 355 | 332 | 382 |
| 7.146 | 348 | 4.54 | $M_2$ | | | | 79 | | 71 | | 144 | 71 | 128 | 63 |
| | | | c | | | | 4.2 | | 3.6 | | 2.3 | 4.1 | 2.0 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | 229 | | 484 | | 235 | 322 | 487 | 575 |
| | | | $n_{2\,th}$ | | | | 229 | | 334 | | 235 | 322 | 294 | 339 |
| 8.889 | 408 | 3.23 | $M_2$ | | | | 98 | | 89 | | 179 | 88 | 159 | 78 |
| | | | c | | | | 3.9 | | 3.4 | | 2.2 | 3.9 | 1.9 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | 184 | | 389 | | 189 | 259 | 392 | 462 |
| | | | $n_{2\,th}$ | | | | 184 | | 308 | | 189 | 259 | 270 | 313 |
| 9.800 | 384 | 2.93 | $M_2$ | | | | 109 | 59 | 99 | 48 | 198 | 98 | 176 | 86 |
| | | | c | | | | 3.3 | 5.6 | 2.9 | 5.5 | 1.9 | 3.3 | 1.6 | 3.1 |
| | | | $n_{2\,Eck}$ | | | | 167 | 204 | 353 | 418 | 171 | 235 | 355 | 419 |
| | | | $n_{2\,th}$ | | | | 167 | 204 | 270 | 307 | 171 | 235 | 223 | 274 |
| 11.376 | 436 | 2.21 | $M_2$ | | 65 | | 127 | 69 | 114 | 56 | 230 | 114 | 204 | 100 |
| | | | c | | 4.9 | | 3.3 | 5.5 | 2.8 | 5.3 | 1.8 | 3.2 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 300 | | 144 | 176 | 304 | 360 | 148 | 202 | 306 | 361 |
| | | | $n_{2\,th}$ | | 300 | | 144 | 176 | 269 | 305 | 148 | 202 | 220 | 273 |
| 12.444 | 450 | 1.89 | $M_2$ | | 72 | | 139 | 76 | 125 | 61 | 252 | 125 | 223 | 110 |
| | | | c | | 4.6 | | 3.1 | 5.2 | 2.7 | 5.0 | 1.7 | 3.1 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | 274 | | 131 | 161 | 278 | 330 | 135 | 185 | 280 | 330 |
| | | | $n_{2\,th}$ | | 274 | | 131 | 161 | 252 | 284 | 135 | 185 | 204 | 250 |
| 13.720 | 426 | 1.73 | $M_2$ | | 80 | 49 | 154 | 84 | 139 | 68 | 279 | 138 | 247 | 122 |
| | | | c | | 4.0 | 5.9 | 2.7 | 4.4 | 2.3 | 4.3 | 1.5 | 2.6 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | | 249 | 295 | 119 | 146 | 252 | 299 | 123 | 168 | 254 | 300 |
| | | | $n_{2\,th}$ | | 247 | 265 | 119 | 146 | 221 | 251 | 122 | 168 | 171 | 225 |
| 15.873 | 450 | 1.32 | $M_2$ | | 92 | 58 | 178 | 98 | 161 | 79 | 323 | 160 | 286 | 141 |
| | | | c | | 3.6 | 5.4 | 2.4 | 4.1 | 2.1 | 4.0 | 1.3 | 2.4 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 215 | 255 | 103 | 126 | 218 | 258 | 106 | 145 | 219 | 259 |
| | | | $n_{2\,th}$ | | 215 | 247 | 103 | 126 | 209 | 226 | 106 | 145 | 163 | 196 |
| 17.500 | 450 | 1.23 | $M_2$ | | 102 | 64 | 197 | 108 | 178 | 87 | 357 | 177 | 316 | 156 |
| | | | c | | 3.3 | 4.9 | 2.2 | 3.7 | 1.9 | 3.6 | 1.2 | 2.2 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | 195 | 231 | 93 | 114 | 197 | 234 | 96 | 131 | 199 | 235 |
| | | | $n_{2\,th}$ | | 195 | 221 | 93 | 114 | 184 | 205 | 96 | 131 | 142 | 178 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

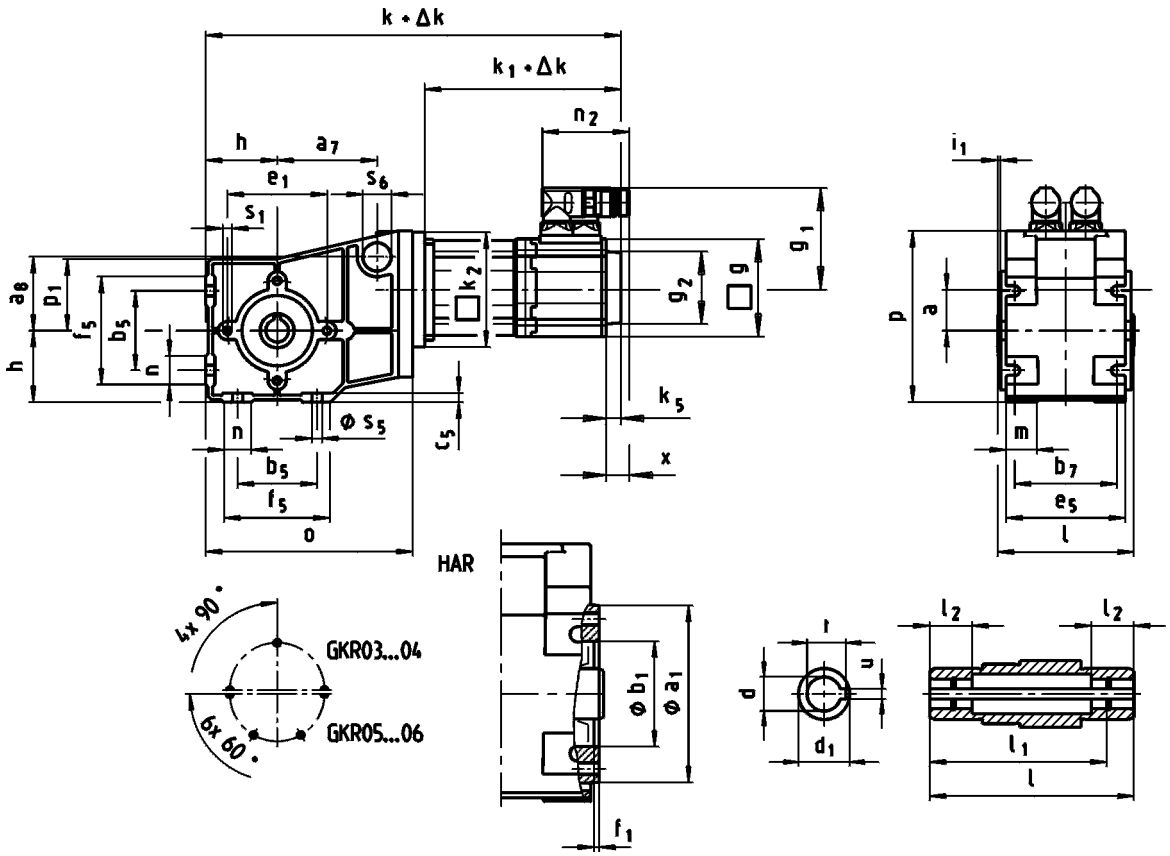


## $M_{2\,GN} \leq 450$ Nm

| GKR06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 19.444 | 450 | 0.99 | $M_2$ | | 114 | 71 | 219 | 121 | 198 | 97 | 397 | 198 | | 174 |
| | | | c | | 2.9 | 4.4 | 2.0 | 3.3 | 1.7 | 3.2 | 1.1 | 2.0 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 175 | 208 | 84 | 103 | 178 | 211 | 86 | 118 | | 211 |
| | | | $n_{2\,th}$ | | 175 | 208 | 84 | 103 | 178 | 185 | 86 | 118 | | 160 |
| 21.438 | 450 | 0.93 | $M_2$ | | 126 | 79 | 242 | 134 | 219 | 108 | | 218 | | 192 |
| | | | c | | 2.7 | 4.0 | 1.8 | 3.0 | 1.6 | 2.9 | | 1.8 | | 1.7 |
| | | | $n_{2\,Eck}$ | | 159 | 189 | 76 | 93 | 161 | 191 | | 107 | | 192 |
| | | | $n_{2\,th}$ | | 159 | 189 | 76 | 93 | 159 | 167 | | 107 | | 145 |
| 25.309 | 450 | 0.63 | $M_2$ | | 149 | 93 | 287 | 158 | 258 | 127 | | | | |
| | | | c | | 2.6 | 3.8 | 1.6 | 2.8 | 1.5 | 2.8 | | | | |
| | | | $n_{2\,Eck}$ | | 135 | 160 | 65 | 79 | 137 | 162 | | | | |
| | | | $n_{2\,th}$ | | 135 | 160 | 65 | 79 | 137 | 142 | | | | |
| 27.903 | 450 | 0.59 | $M_2$ | | 165 | 103 | 317 | 175 | 285 | 141 | | | | |
| | | | c | | 2.3 | 3.5 | 1.4 | 2.5 | 1.4 | 2.6 | | | | |
| | | | $n_{2\,Eck}$ | | 122 | 145 | 59 | 72 | 124 | 147 | | | | |
| | | | $n_{2\,th}$ | | 122 | 145 | 59 | 72 | 124 | 129 | | | | |
| 31.481 | 450 | 0.46 | $M_2$ | | 186 | 117 | 358 | 198 | 322 | 159 | | | | |
| | | | c | | 2.1 | 3.1 | 1.3 | 2.3 | 1.2 | 2.3 | | | | |
| | | | $n_{2\,Eck}$ | | 108 | 129 | 52 | 64 | 110 | 130 | | | | |
| | | | $n_{2\,th}$ | | 108 | 129 | 52 | 64 | 110 | 114 | | | | |
| 34.708 | 450 | 0.43 | $M_2$ | 63 | 206 | 129 | 395 | 219 | 356 | 176 | | | | |
| | | | c | 5.6 | 1.9 | 2.8 | 1.1 | 2.0 | 1.1 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 114 | 98 | 117 | 47 | 58 | 100 | 118 | | | | |
| | | | $n_{2\,th}$ | 114 | 98 | 117 | 47 | 58 | 100 | 103 | | | | |
| 40.741 | 450 | 0.28 | $M_2$ | 74 | 242 | 152 | | | | | | | | |
| | | | c | 5.3 | 1.8 | 2.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 97 | 84 | 99 | | | | | | | | |
| | | | $n_{2\,th}$ | 97 | 84 | 99 | | | | | | | | |
| 44.917 | 450 | 0.27 | $M_2$ | 82 | 267 | 168 | | | | | | | | |
| | | | c | 4.8 | 1.6 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 88 | 76 | 90 | | | | | | | | |
| | | | $n_{2\,th}$ | 88 | 76 | 90 | | | | | | | | |
| 49.444 | 450 | 0.21 | $M_2$ | 91 | 295 | 186 | | | | | | | | |
| | | | c | 4.4 | 1.5 | 2.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 80 | 69 | 82 | | | | | | | | |
| | | | $n_{2\,th}$ | 80 | 69 | 82 | | | | | | | | |
| 54.513 | 450 | 0.20 | $M_2$ | 100 | 325 | 205 | | | | | | | | |
| | | | c | 4.0 | 1.3 | 2.0 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 73 | 63 | 74 | | | | | | | | |
| | | | $n_{2\,th}$ | 72 | 63 | 74 | | | | | | | | |
| 62.500 | 378 | 0.13 | $M_2$ | 116 | | | | | | | | | | |
| | | | c | 2.9 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 63 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 63 | | | | | | | | | | |
| 68.906 | 417 | 0.13 | $M_2$ | 128 | | | | | | | | | | |
| | | | c | 2.9 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 57 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 57 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

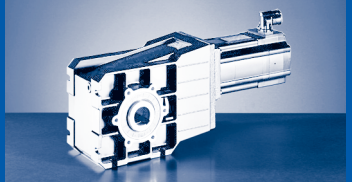



## GKR□□-2S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | k | 294 | 324 | 354 | | | | | | | | | | | |
| GKR04... | k | 331 | 361 | 391 | 383 | 403 | 423 | 463 | | | | | | | |
| GKR05... | k | 384 | 414 | 444 | 437 | 457 | 477 | 517 | 454 | | 494 | | | 534 | |
| GKR06... | k | 436 | 466 | 496 | 488 | 508 | 528 | 568 | 505 | | 545 | | | 585 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKR05: 12DC20 ... 12LC41



## GKR□□-2S H□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|---|
| GKR06... | k | 521 | | 561 | | 601 | | 641 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | |
| | $k_2$ | 145 | | | | | | | |
| | g | 143 | | | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | |
| | $g_2$ | Ø 78 | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

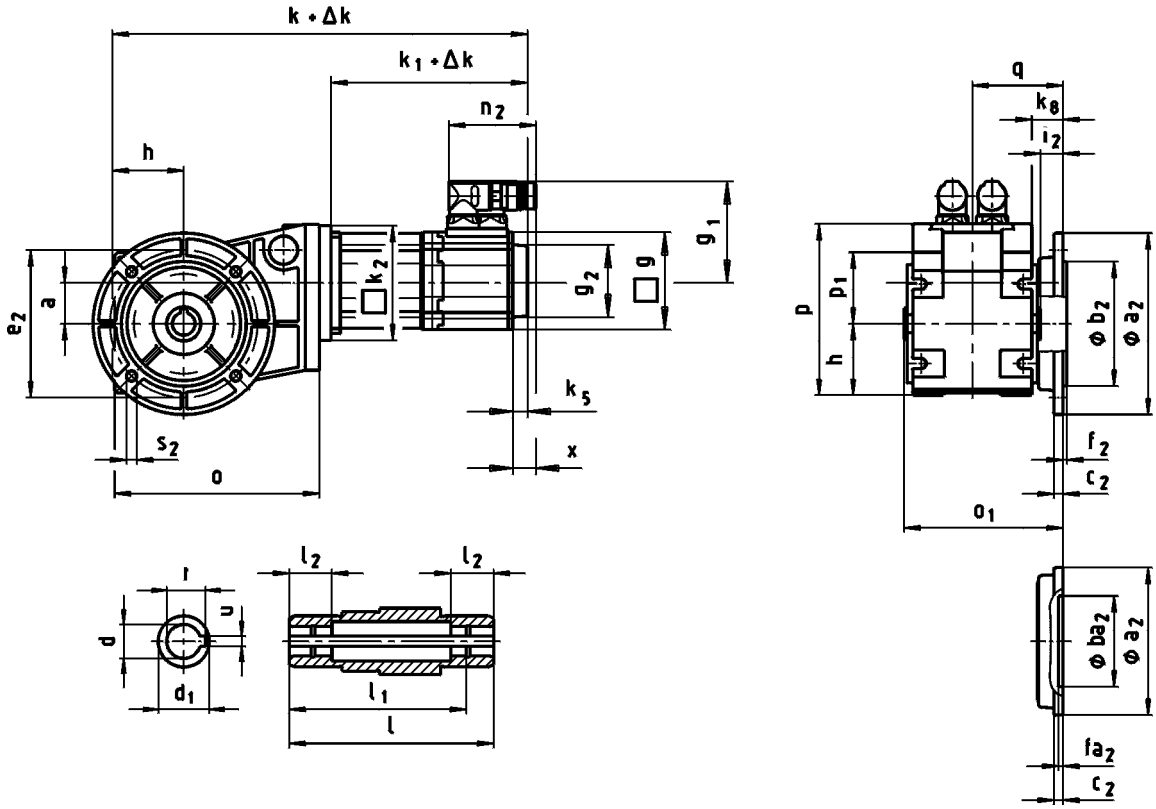
## GKR□□-2S H□R

| | o | p | $p_1$ | h | a | $a_7$ | $a_8$ | $s_6$ |
|---|---|---|---|---|---|---|---|---|
| **GKR03...** | 142 | 117 | 48 | 50 | 29 | 66 | 39 | 25x12 |
| **GKR04...** | 189 | 151 | 63 | 63 | 36 | 88 | 65 | 25x17 |
| **GKR05...** | 251 | 181 | 82 | 80 | 40 | - | - | - |
| **GKR06...** | 307 | 226 | 100 | 100 | 51 | | | |

| | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|
| **GKR03...** | 60 | 75 | 7 | 90 | 80 | 22 | 20 | 6.6 |
| **GKR04...** | 70 | 90 | 8 | 105 | 95 | 28 | 25 | 9 |
| **GKR05...** | 100 | 100 | 11 | 115 | 138 | 27 | 48 | |
| **GKR06...** | 120 | 125 | 12 | 145 | 164 | 32 | 53 | 11 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | | JS9 | +0,2 | | J7 | | | | |
| **GKR03...** | 18 | 100 | 30 | 85 | 22 | 6 | 20.8 | 85 | 55 | 70 | 2.5 | 2.5 | M6x12 |
| | 20 | | | | | | 22.8 | | | | | | |
| **GKR04...** | | 120 | | 105 | 25 | | | 104 | 62 | 88 | 3 | | M8x16 |
| | 25 | | 35 | | | 8 | 27 [2] | | | | | | |
| **GKR05...** | 30 | 143 | 50 | 127 | | | 33.3 | 116 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | | 10 | 38.3 | | | | | | |
| **GKR06...** | 40 | 170 | 65 | 150 | 30 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x22 |
| | 45 | | | | | 14 | 48.8 | | | | | | |

[2] DIN 6885/3

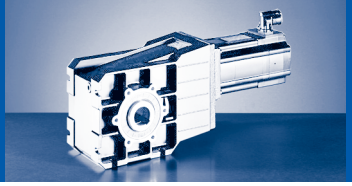



## GKR□□-2S HAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | k | 294 | 324 | 354 | | | | | | | | | | | |
| GKR04... | k | 331 | 361 | 391 | 383 | 403 | 423 | 463 | | | | | | | |
| GKR05... | k | 384 | 414 | 444 | 437 | 457 | 477 | 517 | 454 | | 494 | | | 534 | |
| GKR06... | k | 436 | 466 | 496 | 488 | 508 | 528 | 568 | 505 | | 545 | | | 585 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKR05: 12DC20 ... 12LC41



## GKR□□-2S HAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|---|
| GKR06... | k | 521 | | 561 | | 601 | | 641 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | |
| | $k_2$ | 145 | | | | | | | |
| | g | 143 | | | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | |
| | $g_2$ | Ø 78 | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 |

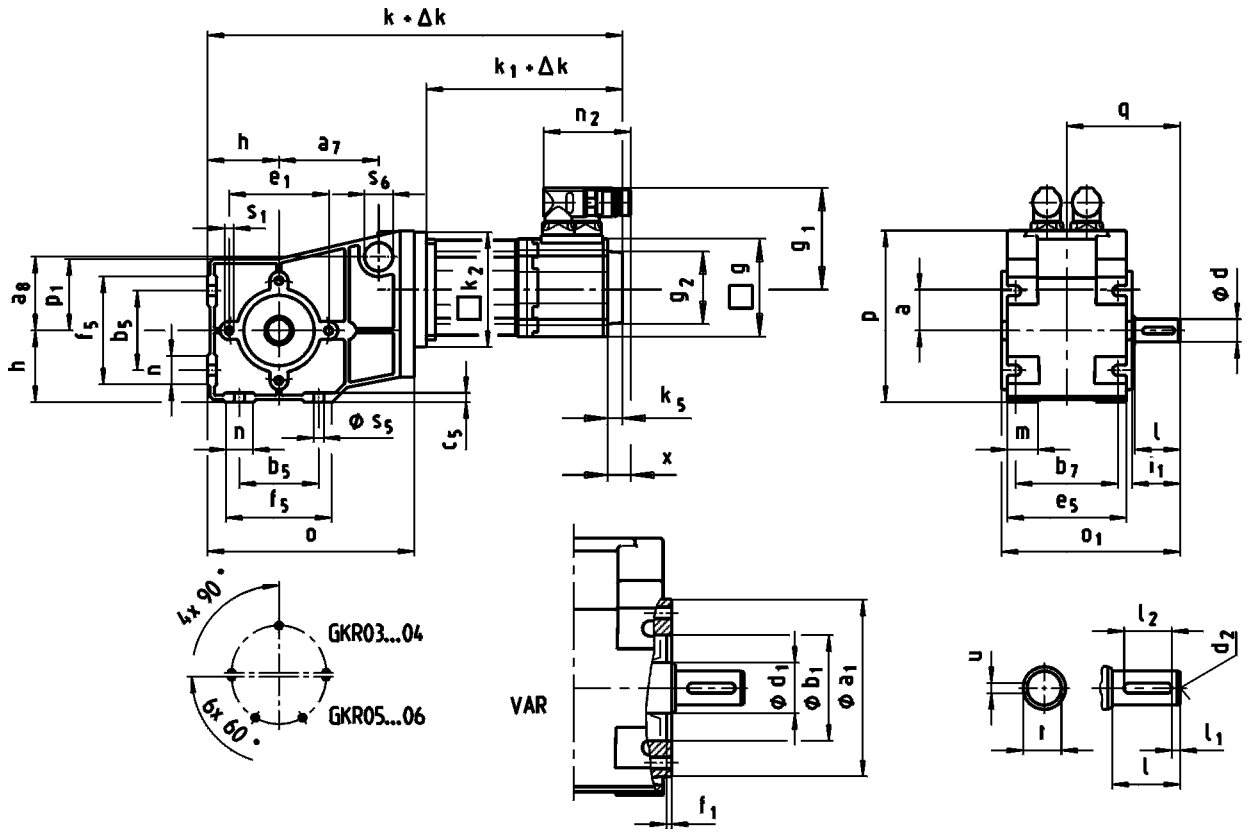
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKR□□-2S HAK

| | o | $o_1$ | p | $p_1$ | h | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| GKR03... | 142 | 130 | 117 | 48 | 50 | 29 | 80 | 35 |
| GKR04... | 189 | 140 | 151 | 63 | 63 | 36 | | 28 |
| GKR05... | 251 | 177 | 181 | 82 | 80 | 40 | 105 | 48 |
| GKR06... | 307 | 212 | 226 | 100 | 100 | 51 | 126.5 | 54 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | u | t | $a_2$ | $b_2$ | $ba_2$ | $c_2$ | $e_2$ | $f_2$ | $fa_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | | JS9 | +0,2 | | j7 | H7 | | | | | | 4x90° |
| GKR03... | 18 | 100 | 30 | 85 | 22 | 6 | 20.8 | 110 | - | 60 | 8 | 87 | - | 4 | 30 | 9 |
| | 20 | | | | | | 22.8 | 120 | 80 | - | | 100 | 3 | - | | 7 |
| GKR04... | 25 | 120 | 35 | 105 | 25 | 8 | 27 [2] | 160 | 110 | | | 130 | 3.5 | | 20 | 9 |
| GKR05... | 30 | 143 | 50 | 127 | | | 33.3 | | | | 12 | | | | 33.5 | |
| | 35 | | | | | 10 | 38.3 | 200 | 130 | | | 165 | | | | 11 |
| GKR06... | 40 | 170 | 65 | 150 | 30 | 12 | 43.3 | | | | | | | | 41.5 | |
| | 45 | | | | | 14 | 48.8 | 250 | 180 | | | 215 | 4 | | | 14 |

[2] DIN 6885/3

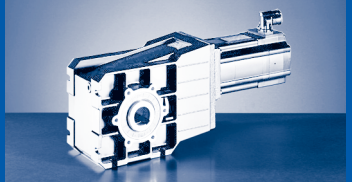



## GKR□□-2S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | k | 294 | 324 | 354 | | | | | | | | | | | |
| GKR04... | k | 331 | 361 | 391 | 383 | 403 | 423 | 463 | | | | | | | |
| GKR05... | k | 384 | 414 | 444 | 437 | 457 | 477 | 517 | 454 | | 494 | | | 534 | |
| GKR06... | k | 436 | 466 | 496 | 488 | 508 | 528 | 568 | 505 | | 545 | | | 585 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKR05: 12DC20 ... 12LC41



## GKR□□-2S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|---|
| GKR06... | k | 521 | | 561 | | 601 | | 641 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | |
| | $k_2$ | 145 | | | | | | | |
| | g | 143 | | | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | |
| | $g_2$ | Ø 78 | | | | | | | |
| | $g_1$ | 116 | | | | | 147 | 116 | 147 |
| | $n_2$ | 78 | | | | | 94 | 78 | 94 |
| | x | 16 | | | | | 38 | 16 | 38 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

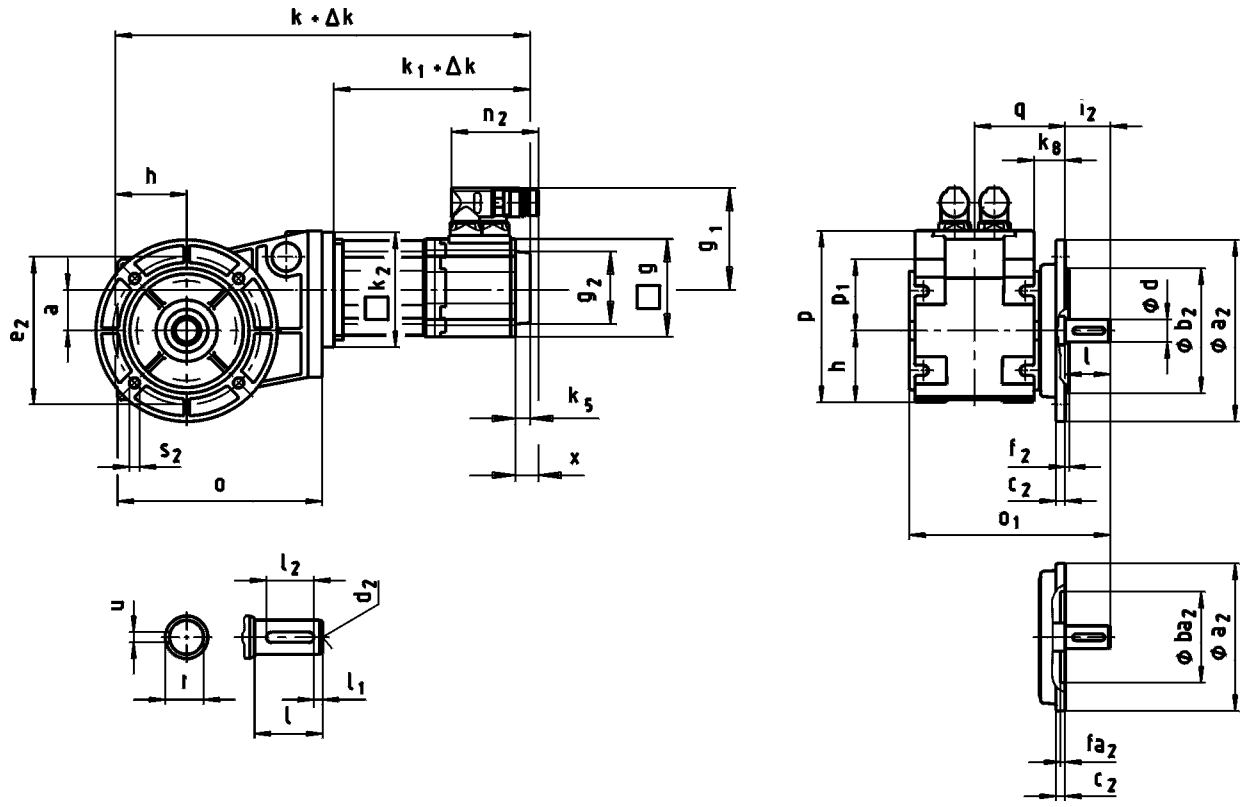
## GKR□□-2S V□R

| | o | $o_1$ | p | $p_1$ | h | a | q | $a_7$ | $a_8$ | $s_6$ |
|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | 142 | 138 | 117 | 48 | 50 | 29 | 90 | 66 | 39 | 25x12 |
| GKR04... | 189 | 158 | 151 | 63 | 63 | 36 | 100 | 88 | 65 | 25x17 |
| GKR05... | 251 | 199 | 181 | 82 | 80 | 40 | 131.5 | - | - | - |
| GKR06... | 307 | 235 | 226 | 100 | 100 | 51 | 155 | | | |

| | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|
| GKR03... | 60 | 75 | 7 | 90 | 80 | 22 | 20 | 6.6 |
| GKR04... | 70 | 90 | 8 | 105 | 95 | 28 | 25 | 9 |
| GKR05... | 100 | 100 | 11 | 115 | 138 | 27 | 48 | |
| GKR06... | 120 | 125 | 12 | 145 | 164 | 32 | 53 | 11 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | J7 | | | | |
| GKR03... | 20 | 40 | 30 | 5 | 28 | M6 | 6 | 22.5 | 85 | 55 | 70 | 2.5 | 42.5 | M6x12 |
| GKR04... | | | | | | | | | 104 | 62 | 88 | 3 | | M8x16 |
| GKR05... | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 116 | 80 | 100 | 4 | 64 | M8x15 |
| GKR06... | 35 | 70 | 65 | 7 | 56 | M12 | 10 | 38 | 140 | 100 | 120 | | 75 | M10x22 |

d ≤ 50 mm: k6; d > 50 mm: m6

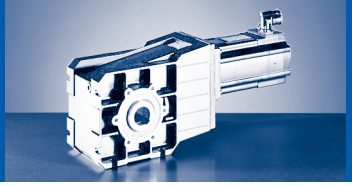



## GKR□□-2S VAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR03... | k | 294 | 324 | 354 | | | | | | | | | | | |
| GKR04... | k | 331 | 361 | 391 | 383 | 403 | 423 | 463 | | | | | | | |
| GKR05... | k | 384 | 414 | 444 | 437 | 457 | 477 | 517 | 454 | | 494 | | | 534 | |
| GKR06... | k | 436 | 466 | 496 | 488 | 508 | 528 | 568 | 505 | | 545 | | | 585 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKR05: 12DC20 ... 12LC41



## GKR□□-2S VAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 |
|---|---|---|---|---|---|---|---|---|---|
| GKR06... | k | 521 | | 561 | | 601 | | 641 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | |
| | $k_2$ | 145 | | | | | | | |
| | g | 143 | | | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | |
| | $g_2$ | Ø 78 | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 |

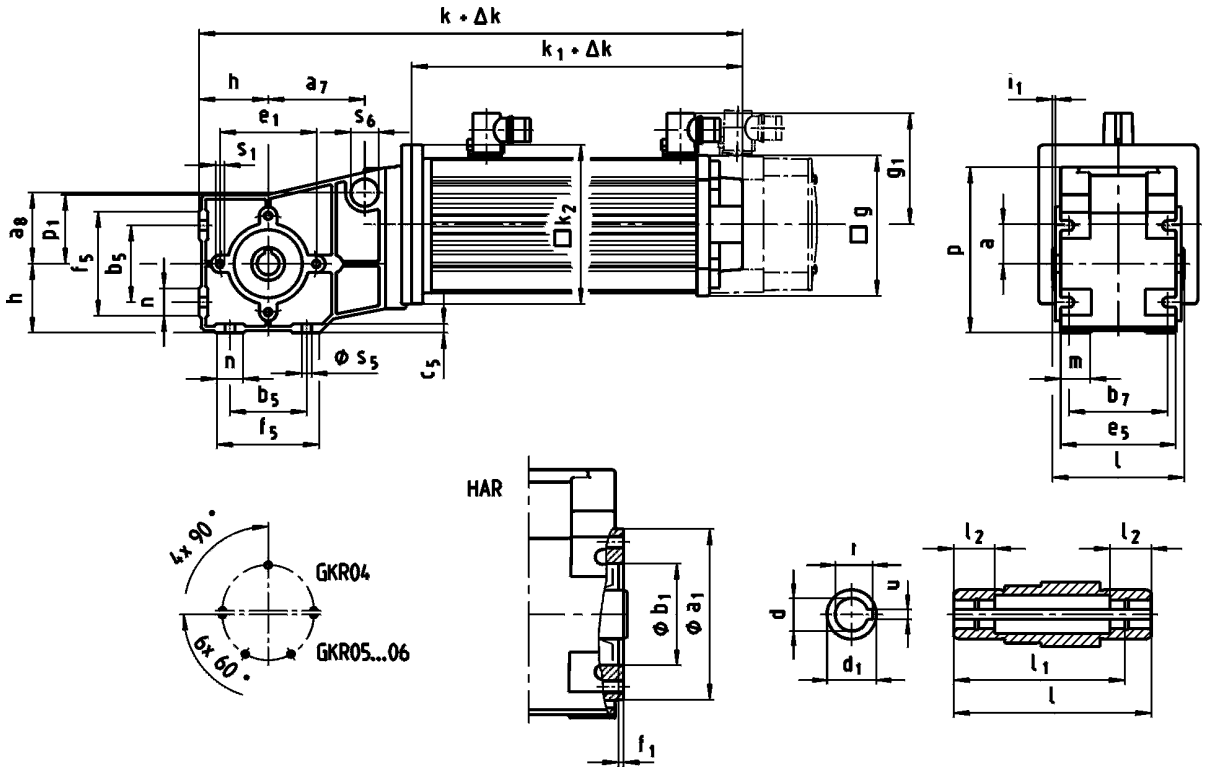
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKR□□-2S VAK

| | o | $o_1$ | p | $p_1$ | h | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKR03...** | 142 | 168 | 117 | 48 | 50 | 29 | 80 | 35 |
| **GKR04...** | 189 | 178 | 151 | 63 | 63 | 36 | 80.5 | 28 |
| **GKR05...** | 251 | 233 | 181 | 82 | 80 | 40 | 105 | 48 |
| **GKR06...** | 307 | 277 | 226 | 100 | 100 | 51 | 126.5 | 54 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $ba_2$ | $c_2$ | $e_2$ | $f_2$ | $fa_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | H7 | | | | | | 4x90° |
| **GKR03...** | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 110 | - | 60 | 8 | 87 | - | 4 | 40 | 9 |
| **GKR04...** | | | | | | | | 120 | 80 | - | | 100 | 3 | - | | 7 |
| **GKR05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | | 12 | 130 | 3.5 | | 60 | 9 |
| **GKR06...** | 35 | 70 | 7 | 56 | M12 | 10 | 38 | 200 | 130 | | | 165 | | | 70 | 11 |
| | | | | | | | | 250 | 180 | | | 215 | 4 | | | 14 |

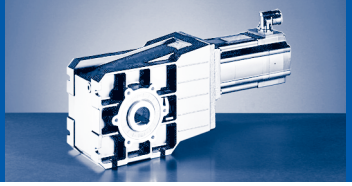
d ≤ 50 mm: k6; d > 50 mm: m6




## GKR□□-2A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR04... | k | 459 | 467 | 535 | | | | | | | | |
| GKR05... | k | 512 | 521 | 589 | 571 | | 633 | | | | | |
| GKR06... | k | 564 | 572 | 640 | 622 | | 684 | | 661 | | 750 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | | 435 | |
| | $k_2$ | 145 | | | 180 | | | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



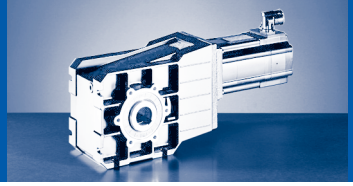
## GKR□□-2A H□R

| | o | p | $p_1$ | h | a | $a_7$ | $a_8$ | $s_6$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| GKR04... | 189 | 151 | 63 | 63 | 36 | 88 | 65 | 25x17 |
| GKR05... | 251 | 181 | 82 | 80 | 40 | - | - | - |
| GKR06... | 307 | 226 | 100 | 100 | 51 | | | |

| | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| GKR04... | 70 | 90 | 8 | 105 | 95 | 28 | 25 | 9 |
| GKR05... | 100 | 100 | 11 | 115 | 138 | 27 | 48 | |
| GKR06... | 120 | 125 | 12 | 145 | 164 | 32 | 53 | 11 |

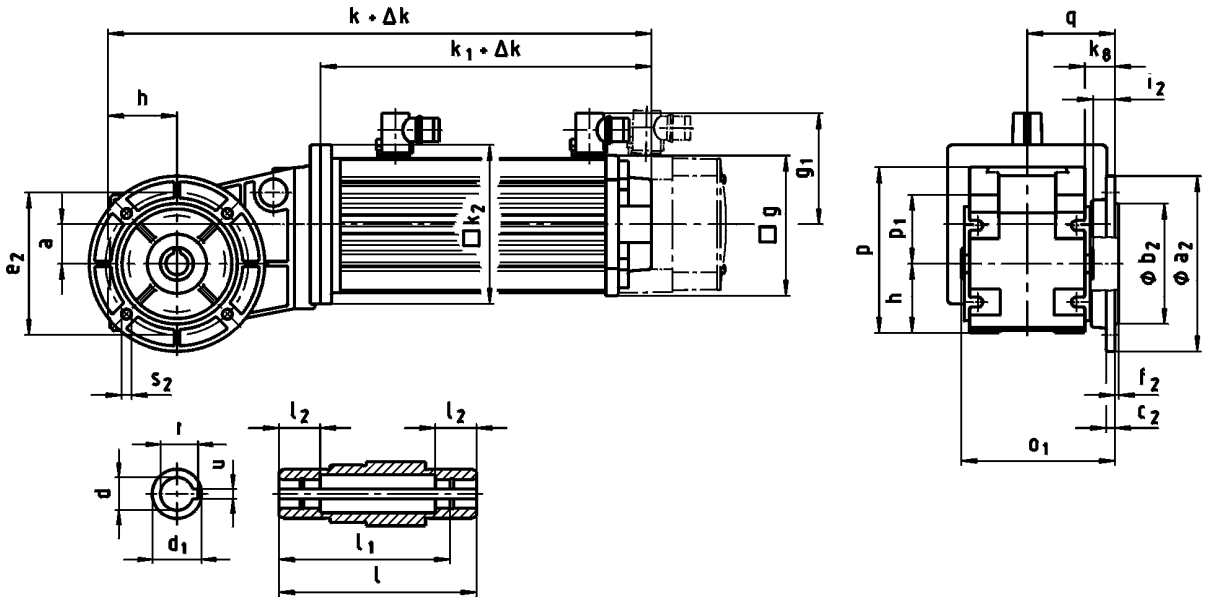
| | d | l | $d_1$ | $l_1$ | $l_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | | JS9 | +0,2 | | J7 | | | | |
| GKR04... | 20 | 120 | 30 | 105 | 25 | 6 | 22.8 | 104 | 62 | 88 | 3 | 2.5 | M8x16 |
| | 25 | | 35 | | | 8 | 27 [1] | | | | | | |
| GKR05... | 30 | 143 | 50 | 127 | | | 33.3 | 116 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | | 10 | 38.3 | | | | | | |
| GKR06... | 40 | 170 | 65 | 150 | 30 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x22 |
| | 45 | | | | | 14 | 48.8 | | | | | | |

[1] DIN 6885/3



# GKR [mm]

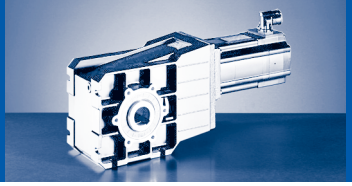
## GKR□□-2A (MCA)




### GKR□□-2A HAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR04... | k | 459 | 467 | 535 | | | | | | | | |
| GKR05... | k | 512 | 521 | 589 | 571 | | 633 | | | | | |
| GKR06... | k | 564 | 572 | 640 | 622 | | 684 | | 661 | | 750 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | | 435 | |
| | $k_2$ | 145 | | | 180 | | | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

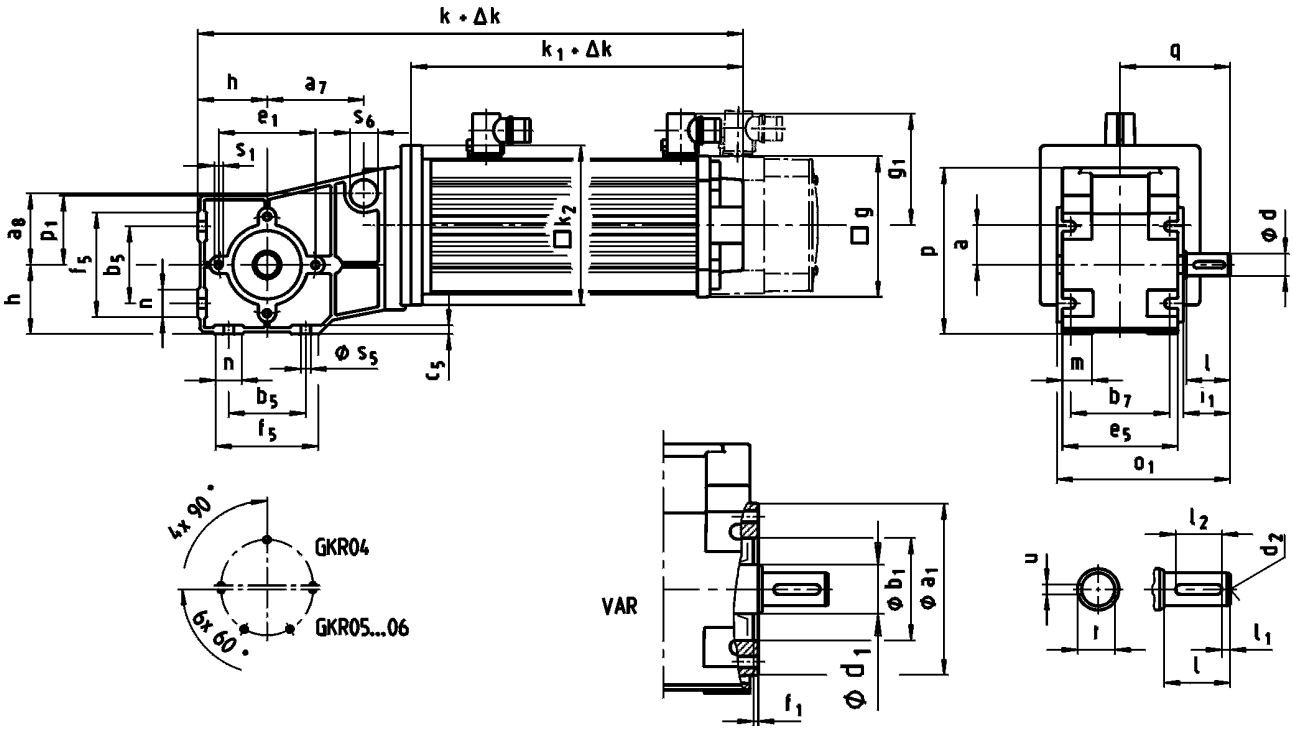


## GKR□□-2A HAK

| | o | $o_1$ | p | $p_1$ | h | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **GKR04...** | 189 | 140 | 151 | 63 | 63 | 36 | 80 | 28 |
| **GKR05...** | 251 | 177 | 181 | 82 | 80 | 40 | 105 | 48 |
| **GKR06...** | 307 | 212 | 226 | 100 | 100 | 51 | 126.5 | 54 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | | JS9 | +0,2 | | j7 | | | | | 4x90° |
| **GKR04...** | 20 | 120 | 30 | 105 | 25 | 6 | 22.8 | 120 | 80 | 8 | 100 | 3 | 20 | 7 |
| | 25 | | 35 | | | 8 | 27 [1] | 160 | 110 | | 130 | 3.5 | | 9 |
| **GKR05...** | 30 | 143 | 50 | 127 | | | 33.3 | | | 12 | | | 33.5 | |
| | 35 | | | | | 10 | 38.3 | 200 | 130 | | 165 | | | 11 |
| **GKR06...** | 40 | 170 | 65 | 150 | 30 | 12 | 43.3 | | | | | | 41.5 | |
| | 45 | | | | | 14 | 48.8 | 250 | 180 | | 215 | 4 | | 14 |

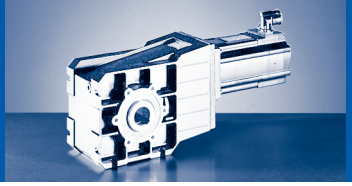
[1] DIN 6885/3




## GKR□□-2A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR04... | k | 459 | 467 | 535 | | | | | | | | |
| GKR05... | k | 512 | 521 | 589 | 571 | | 633 | | | | | |
| GKR06... | k | 564 | 572 | 640 | 622 | | 684 | | 661 | | 750 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | | 435 | |
| | $k_2$ | 145 | | | 180 | | | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



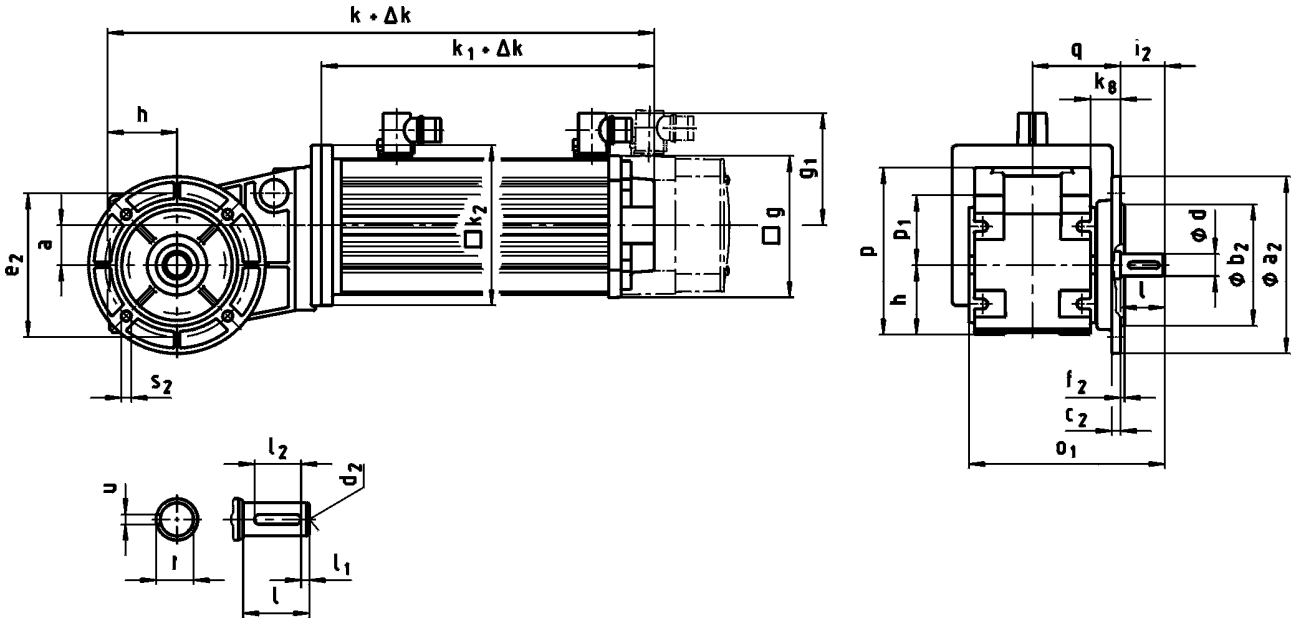
## GKR□□-2A V□R

| | o | $o_1$ | p | $p_1$ | h | a | q | $a_7$ | $a_8$ | $s_6$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| **GKR04...** | 189 | 158 | 151 | 63 | 63 | 36 | 100 | 88 | 65 | 25x17 |
| **GKR05...** | 251 | 199 | 181 | 82 | 80 | 40 | 131.5 | - | - | - |
| **GKR06...** | 307 | 235 | 226 | 100 | 100 | 51 | 155 | | | |

| | $b_5$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **GKR04...** | 70 | 90 | 8 | 105 | 95 | 28 | 25 | 9 |
| **GKR05...** | 100 | 100 | 11 | 115 | 138 | 27 | 48 | |
| **GKR06...** | 120 | 125 | 12 | 145 | 164 | 32 | 53 | 11 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | J7 | | | | |
| **GKR04...** | 20 | 40 | 30 | 5 | 28 | M6 | 6 | 22.5 | 104 | 62 | 88 | 3 | 42.5 | M8x16 |
| **GKR05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 116 | 80 | 100 | 4 | 64 | M8x15 |
| **GKR06...** | 35 | 70 | 65 | 7 | 56 | M12 | 10 | 38 | 140 | 100 | 120 | | 75 | M10x22 |

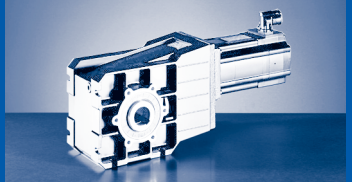
d ≤ 50 mm: k6; d > 50 mm: m6




## GKR□□-2A VAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 | 17N C17 ...F10 | 17N C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKR04... | k | 459 | 467 | 535 | | | | | | | | |
| GKR05... | k | 512 | 521 | 589 | 571 | | 633 | | | | | |
| GKR06... | k | 564 | 572 | 640 | 622 | | 684 | | 661 | | 750 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | | 435 | |
| | $k_2$ | 145 | | | 180 | | | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



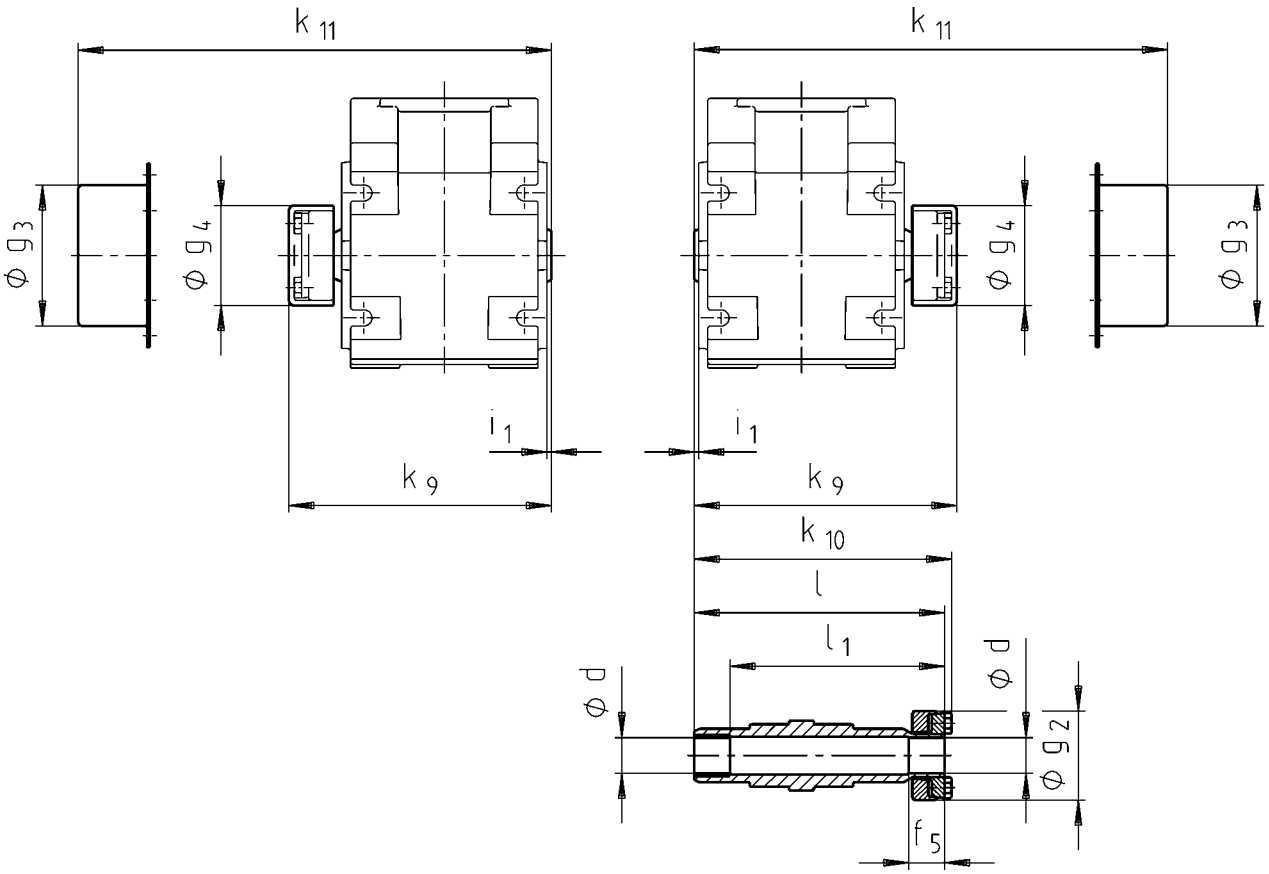
## GKR□□-2A VAK

| | o | $o_1$ | p | $p_1$ | h | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **GKR04...** | 189 | 178 | 151 | 63 | 63 | 36 | 80.5 | 28 |
| **GKR05...** | 251 | 233 | 181 | 82 | 80 | 40 | 105 | 48 |
| **GKR06...** | 307 | 277 | 226 | 100 | 100 | 51 | 126.5 | 54 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | 4x90° |
| **GKR04...** | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 | 80 | 8 | 100 | 3 | 40 | 7 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| **GKR05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | | | 12 | | | 60 | |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| **GKR06...** | 35 | 70 | 7 | 56 | M12 | 10 | 38 | | | | | | 70 | |
| | | | | | | | | 250 | 180 | | 215 | 4 | | 14 |

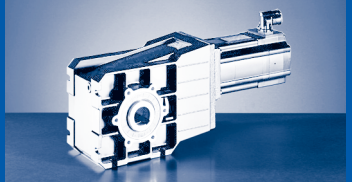
d ≤ 50 mm: k6; d > 50 mm: m6

## Hohlwelle mit Schrumpfscheibe

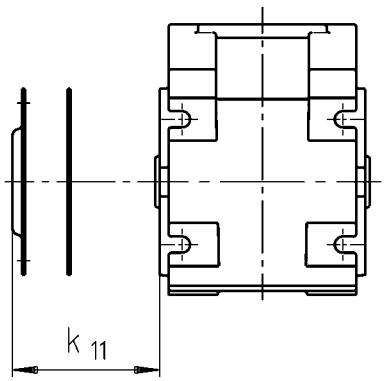



| | Maschinenwelle | Hohlwelle mit Schrumpfscheibe | | | | | | Schutzkappe | | Abdeckhaube | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | $i_1$ | $k_{10}$ | $g_2$ | l | $l_1$ | $f_5$ | $k_9$ | $g_4$ | $k_{11}$ | $g_3$ |
| | h6 | | | | | | | | | | |
| **GKR03...** | 20 | 2.5 | 124 | 50 | 120 | 100 | 20 | 126 | 54 | 138 | 65 |
| **GKR04...** | | | 144 | | 140 | 120 | | 146 | | 158 | 79 |
| **GKR05...** | 30<br>35 | 4 | 177 | 80 | 171 | 151 | 28 | 179 | 84 | 182 | 90 |
| **GKR06...** | 40 | 5 | 210 | 90 | 204 | 174 | 30 | 212 | 94 | 214 | 100 |

► Bei Schrumpfscheibenausführungen auf ausreichende Festigkeit des Wellenwerkstoffes achten.
Bei Verwendung üblicher Stähle (z. B. C45, 42CrMo4) können die in den Auswahltabellen genannten Momente uneingeschränkt übertragen werden.
Bei Verwendung von Werkstoffen mit wesentlich geringerer Festigkeit bitten wir um Rücksprache. Die mittlere Rautiefe Rz sollte 15 µm nicht überschreiten (Drehbearbeitung ist ausreichend).

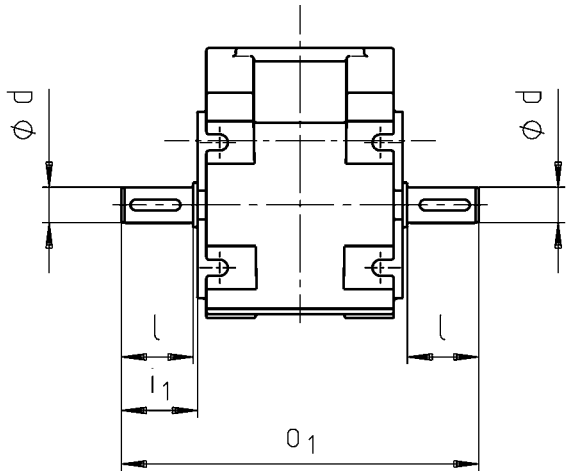


## Hohlwellenabdeckung strahlwasserfest



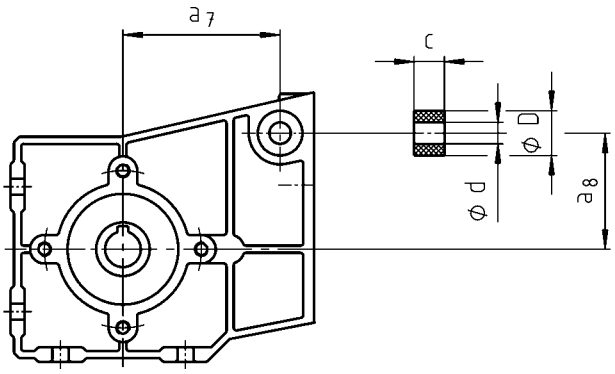

| | Abdeckhaube inkl. Dichtung |
|---|---|
| | $k_{11}$ |
| GKR03... | 9 |
| GKR04... | |
| GKR05... | 10 |
| GKR06... | 11 |

## Getriebe mit 2. Abtriebswellenende

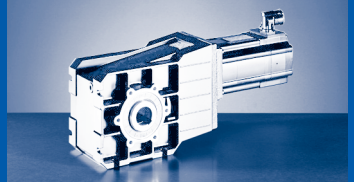



| | d | l | $i_1$ | $o_1$ |
|---|---|---|---|---|
| GKR03... | 20 | 40 | 42.5 | 180 |
| GKR04... | | | | 200 |
| GKR05... | 30 | 60 | 64 | 263 |
| GKR06... | 35 | 70 | 75 | 310 |

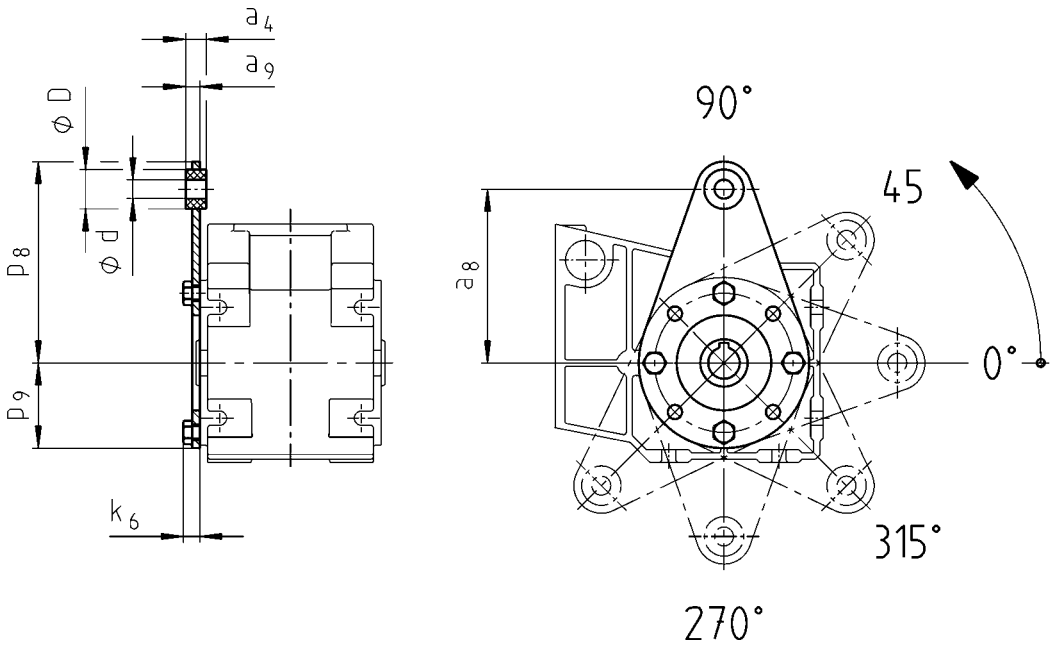
## Gummipuffer für Drehmomentabstützung



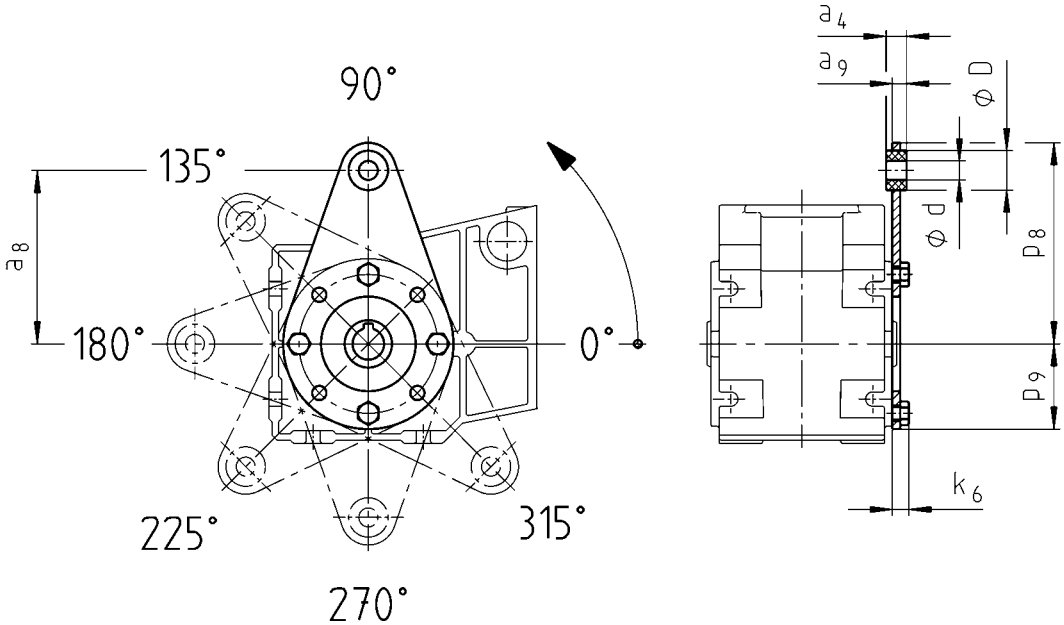

| | d | D | c | $a_7$ | $a_8$ |
|---|---|---|---|---|---|
| GKR03... | 10 | 25 | 13 | 66 | 39 |
| GKR04... | | | | 88 | 65 |



## GKR03/04 Drehmomentstütze an Gewindelochkreis in Lage 3

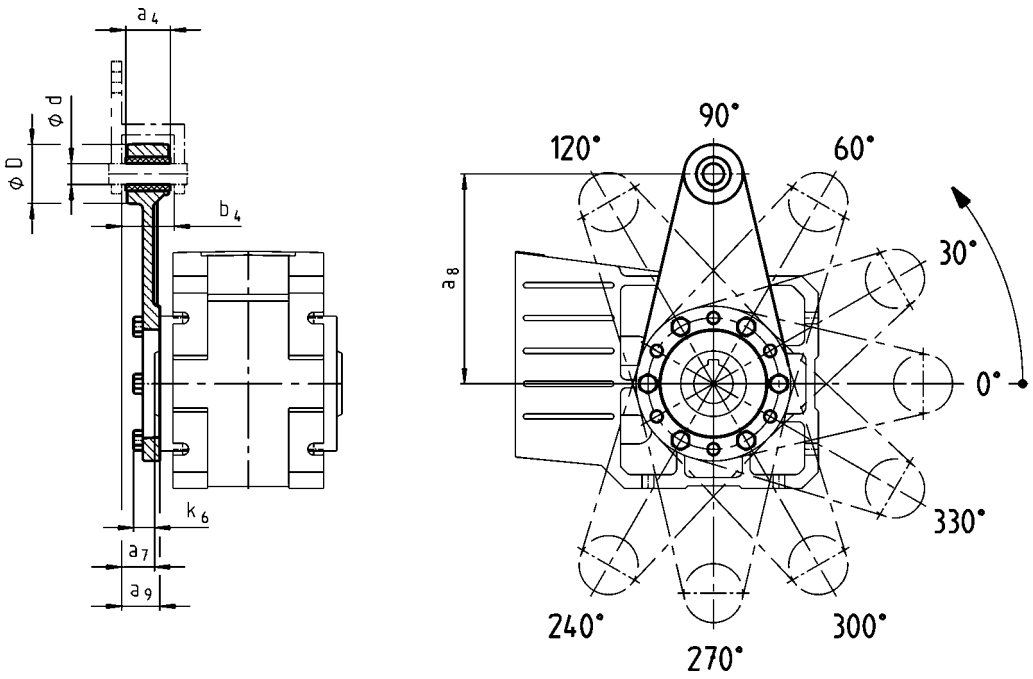



## GKR03/04 Drehmomentstütze an Gewindelochkreis in Lage 5

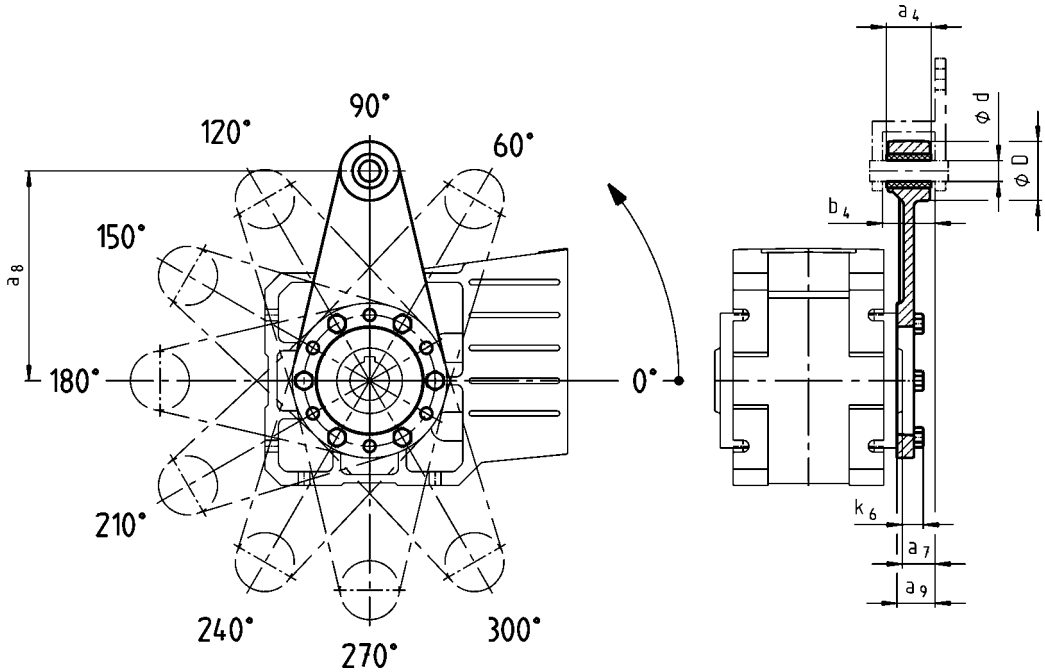



| | $a_4$ | $a_8$ | $a_9$ | d | D | $k_6$ | $p_8$ | $p_9$ |
|---|---|---|---|---|---|---|---|---|
| **GKR03...** | 12 | 100 | 8 | 8 | 20 | 9 | 115 | 42 |
| **GKR04...** | 13 | 110 | 9 | 10 | 25 | 11 | 128 | 52 |

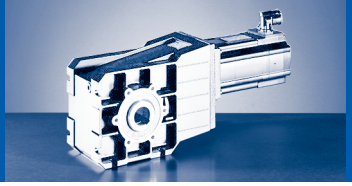
## GKR05/06 Drehmomentstütze an Gewindelochkreis in Lage 3



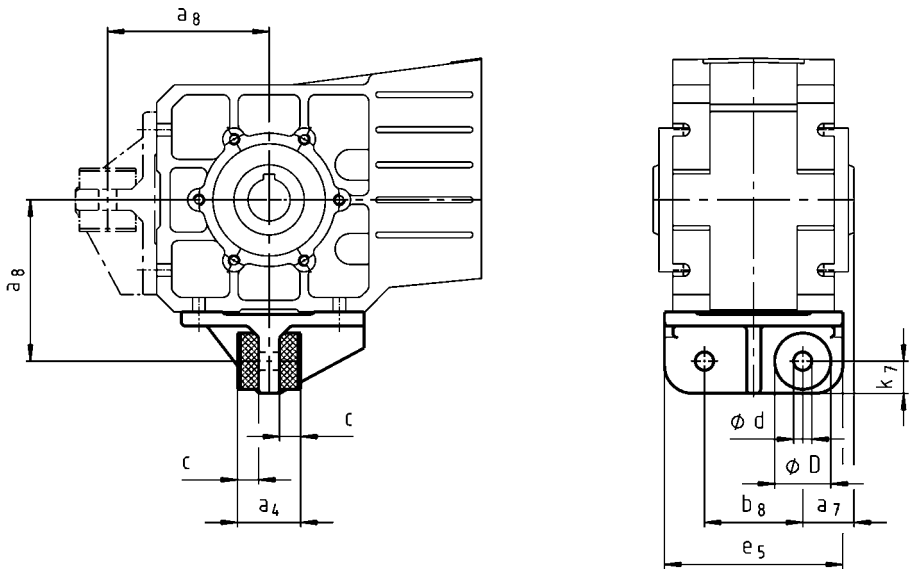

## GKR05/06 Drehmomentstütze an Gewindelochkreis in Lage 5




| | Einbauraum | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $a_7$ | $b_4$ | $a_4$ | $a_8$ | $a_9$ | d | D | $k_6$ |
| GKR05... | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 15 |
| GKR06... | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 |

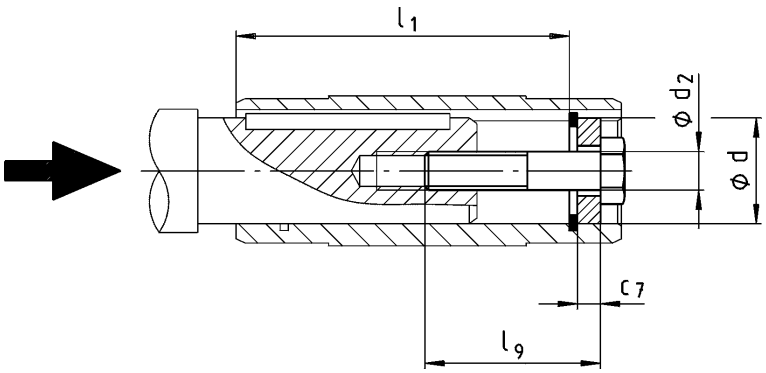


## GKR05/06 Drehmomentstütze an Gehäusefuß in Lage 4 oder 6

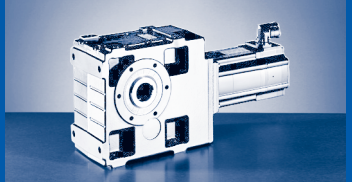



| | $a_4$ | $a_7$ | $a_8$ | $b_8$ | c | d | D | $e_5$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|
| GKR05... | 45 | 36.5 | 115 | 70 | 15 | 13 | 40 | 127 | 25 |
| GKR06... | 72 | 45 | 145 | 80 | 27 | 17 | 50 | 145 | 28 |

## Montagesatz Hohlwellensicherung - Gestaltungsvorschlag für Hilfswerkzeuge



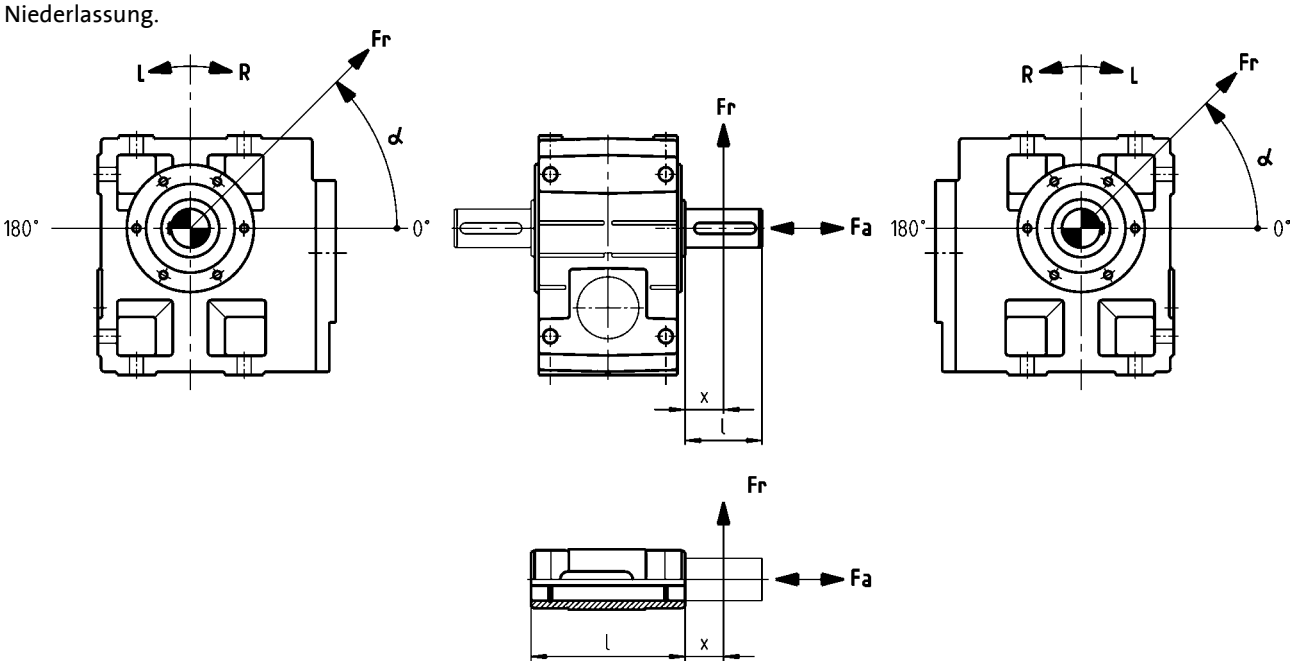

| | Hohlwelle | | Montagesatz Hohlwellensicherung (Hilfswerkzeug Montage) | | |
|---|---|---|---|---|---|
| | d | $l_1$ | $d_2$ | $l_9$ | $c_7$ |
| | H7 | | | | |
| GKR03... | 18 | 85 | M6 | 40 | 4 |
| | 20 | | | | |
| GKR04... | | 105 | | | |
| | 25 | | M10 | | 5 |
| GKR05... | 30 | 127 | | | 6 |
| | 35 | | M12 | 50 | 7 |
| GKR06... | 40 | 150 | M16 | 60 | 8 |
| | 45 | | | | 9 |



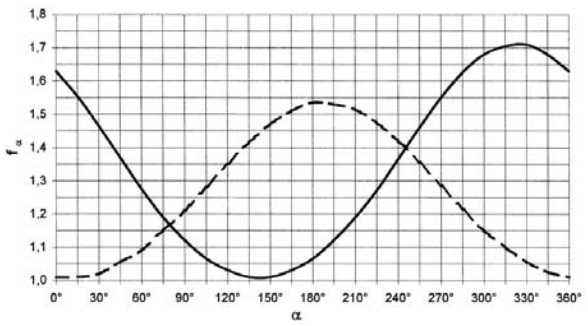
**Zulässige Radialkraft**
$Fr_{zul} = \min(f_w \times f_\alpha \times Fr_{Tab} ; f_w \times Fr_{max})$

**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0

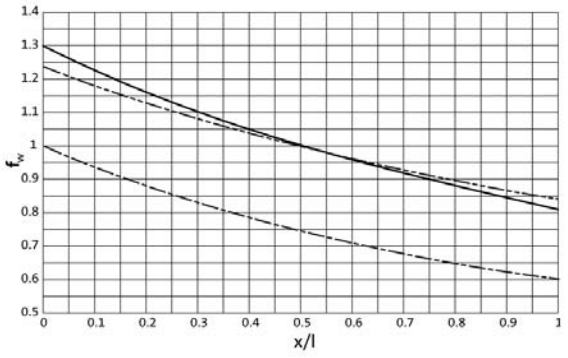
Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung.




**Wirkrichtungsfaktor $f_\alpha$ an der Abtriebswelle**




**Lastangriffsbeiwert $f_w$ an der Abtriebswelle**



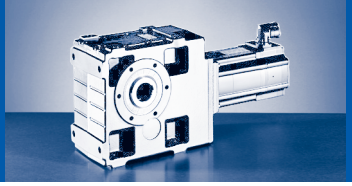

——— Drehrichtung R
— — — Drehrichtung L

——— Vollwelle (V□R)
— — — Vollwelle mit Flansch (V□K)
— · — Hohlwelle (H□□)

| | Vollwelle ohne Flansch (V□R)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GKS04-3 | | GKS05-3/4 | | GKS06-3/4 | | GKS07-3/4 | | GKS09-3/4 [1] | | GKS11-3/4 [1] | | GKS14-3/4 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 2400 | 3300 | 2200 | 2800 | 2700 | 3500 | - | - | - | - | - | - | - | - |
| **400** | 3000 | 4200 | 2800 | 3500 | 3700 | 4440 | 4000 | 4900 | 6200 | 6500 | 7100 | 7000 | 57900 | 35000 |
| **250** | 3400 | 5000 | 3200 | 4240 | 4300 | 5580 | 4900 | 6230 | 6400 | 7400 | 7500 | 8000 | 61000 | 35000 |
| **160** | 3600 | 5500 | 3600 | 5090 | 4900 | 6930 | 5800 | 7820 | 7100 | 8000 | 8200 | 9200 | 64100 | 35000 |
| **100** | 3600 | 5500 | 4100 | 6160 | 5300 | 8710 | 6600 | 9940 | 8400 | 10500 | 10000 | 12000 | 65000 | 35000 |
| **63** | 3600 | 5500 | 4900 | 6600 | 6200 | 10000 | 8000 | 12600 | 9500 | 13000 | 11200 | 14500 | 65000 | 35000 |
| **40** | 3600 | 5500 | 5800 | 6600 | 7900 | 10000 | 9600 | 14000 | 11800 | 17000 | 13000 | 18500 | 65000 | 35000 |
| **25** | 3600 | 5500 | 5800 | 6600 | 9000 | 10000 | 12000 | 14000 | 16000 | 21000 | 19000 | 27000 | 65000 | 35000 |
| **≤ 16** | 3600 | 5500 | 5800 | 6600 | 9000 | 10000 | 12000 | 14000 | 18000 | 21000 | 23000 | 27000 | 65000 | 35000 |
| **$Fr_{max}$** | 3600 | - | 5800 | - | 9000 | - | 12000 | - | 18000 | - | 23000 | - | 65000 | - |

[1] Bei der Ausführung V□R ist eine verstärkte Abtriebswellenlagerung auf Anfrage möglich.

| | Vollwelle mit Flansch (V□K)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GKS04-3 | | GKS05-3/4 | | GKS06-3/4 | | GKS07-3/4 | | GKS09-3/4 | | GKS11-3/4 | | GKS14-3/4 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 3100 | 3300 | 3800 | 2900 | 4700 | 3700 | - | - | - | - | - | - | - | - |
| **400** | 3800 | 4200 | 4640 | 3630 | 6400 | 4660 | 7000 | 5700 | 9900 | 6000 | 14500 | 7000 | 20500 | 8400 |
| **250** | 4300 | 4400 | 5420 | 4440 | 7500 | 5880 | 8250 | 7000 | 10500 | 6600 | 16000 | 7500 | 23700 | 10000 |
| **160** | 4600 | 4400 | 6280 | 5420 | 8800 | 7320 | 9630 | 8500 | 12000 | 7600 | 17600 | 8500 | 27200 | 11500 |
| **100** | 4600 | 4400 | 7000 | 6600 | 9800 | 9230 | 11000 | 10400 | 14000 | 10000 | 21000 | 10500 | 31300 | 13000 |
| **63** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 13000 | 11500 | 15000 | 12000 | 24500 | 13000 | 35000 | 15000 |
| **40** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 15000 | 28000 | 17500 | 41000 | 19000 |
| **25** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 17000 | 30000 | 27000 | 43000 | 28000 |
| **≤ 16** | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 17000 | 30000 | 27000 | 43000 | 35000 |
| **$Fr_{max}$** | 4600 | - | 7000 | - | 10000 | - | 14000 | - | 15000 | - | 30000 | - | 43000 | - |

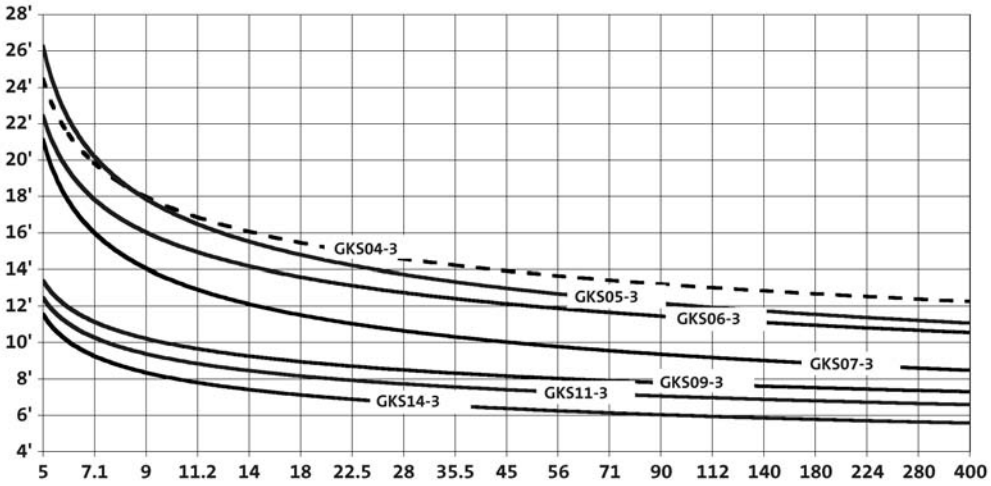


| | Hohlwelle (H□□)<br>Kraftangriff Fr: an Hohlwellenspiegel (x=0)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GKS04-3 | | GKS05-3/4 | | GKS06-3/4 | | GKS07-3/4 | | GKS09-3/4 | | GKS11-3/4 | | GKS14-3/4 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 3100 | 3300 | 2400 | 2800 | 3000 | 3500 | - | - | - | - | - | - | - | - |
| **400** | 3900 | 4200 | 3500 | 3500 | 4600 | 4440 | 5400 | 4900 | 7500 | 6500 | 9000 | 7000 | 15000 | 6000 |
| **250** | 4500 | 5000 | 4200 | 4240 | 5600 | 5580 | 6300 | 6230 | 8200 | 7400 | 10000 | 8000 | 15500 | 8000 |
| **160** | 5100 | 5500 | 4630 | 5090 | 6400 | 6930 | 7400 | 7820 | 9400 | 8000 | 11000 | 9200 | 16500 | 10000 |
| **100** | 5900 | 5500 | 5000 | 6160 | 7000 | 8710 | 8700 | 9940 | 10600 | 10500 | 14000 | 12000 | 17500 | 13000 |
| **63** | 6800 | 5500 | 6200 | 6600 | 8200 | 10000 | 10500 | 12600 | 12200 | 13000 | 16000 | 14500 | 18500 | 16000 |
| **40** | 7000 | 5500 | 7300 | 6600 | 10400 | 10000 | 12500 | 14000 | 15500 | 17000 | 18500 | 18500 | 21000 | 20000 |
| **25** | 7000 | 5500 | 7300 | 6600 | 12000 | 10000 | 15100 | 14000 | 21000 | 21000 | 25000 | 27000 | 28000 | 28000 |
| **≤ 16** | 7000 | 5500 | 7300 | 6600 | 12000 | 10000 | 16000 | 14000 | 24000 | 21000 | 30000 | 27000 | 40000 | 35000 |
| **$Fr_{max}$** | 7000 | - | 7300 | - | 12000 | - | 16000 | - | 24000 | - | 30000 | - | 45000 | - |

► Bei Hohlwelle mit Schrumpfscheibe (S□□) sind weder Radial- noch Axialkräfte zulässig.

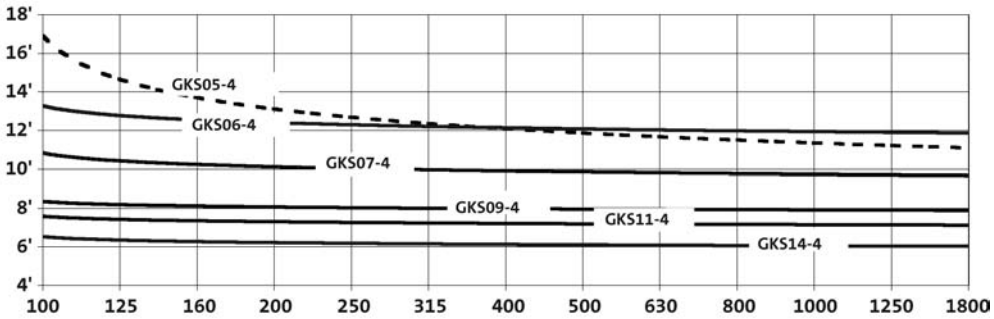
## Verdrehspiel am Abtrieb in Winkelminuten

**GKS04...14-3**

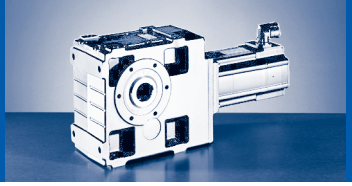



Übersetzung

**GKS05...14-4**

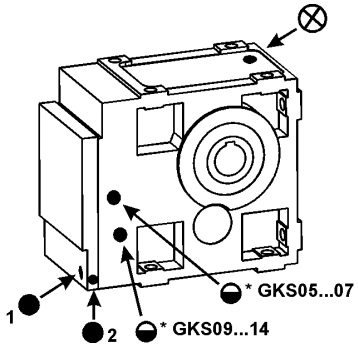
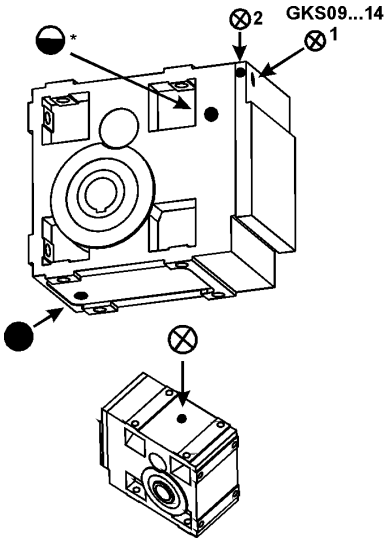
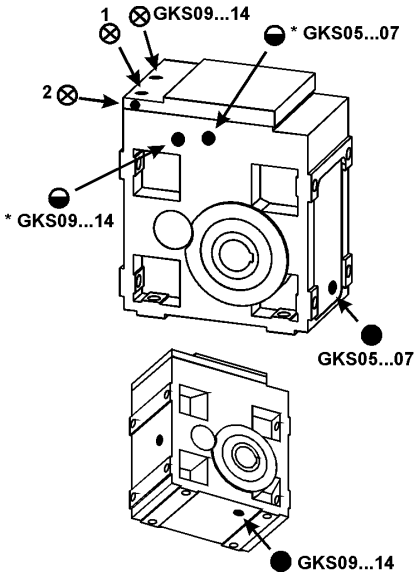


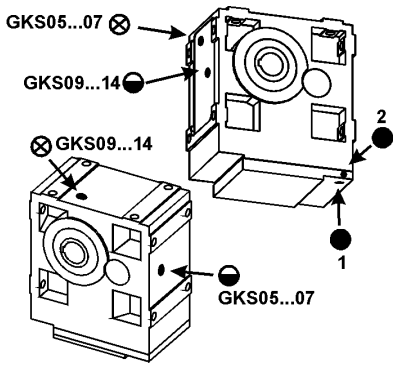
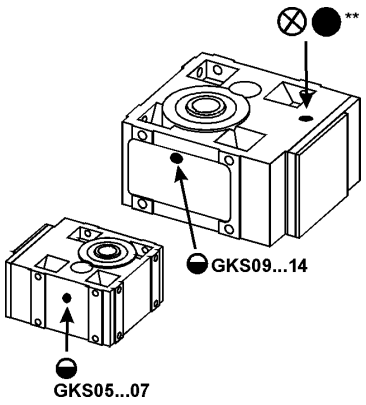
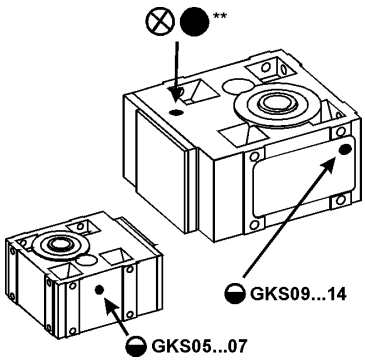

Übersetzung



## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

### GKS05...14-3

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

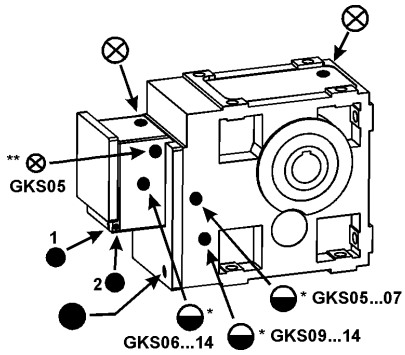
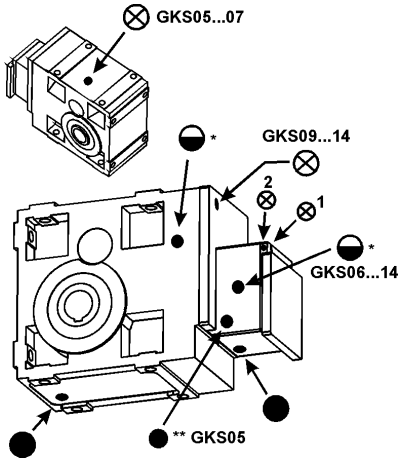
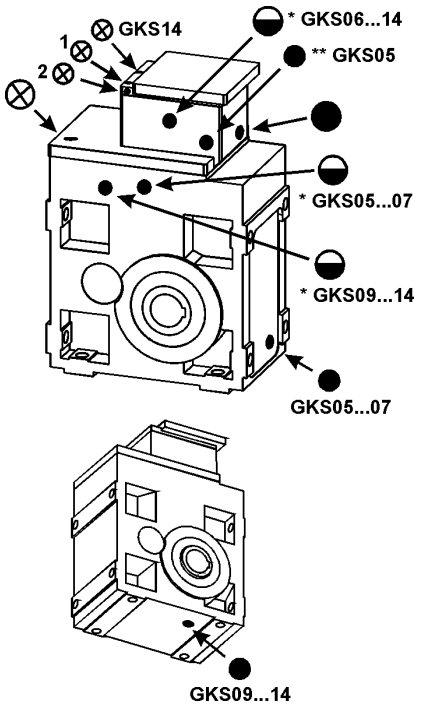
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

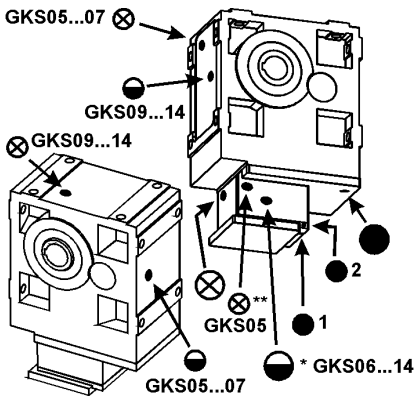
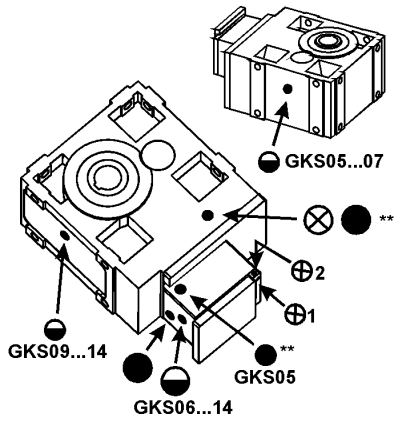
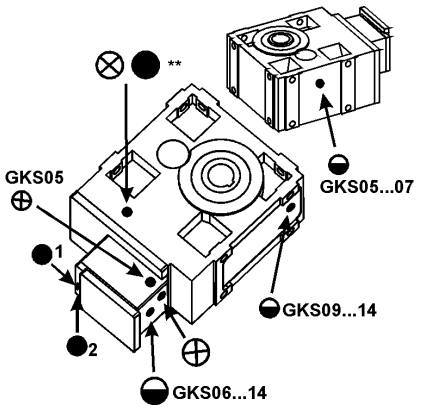
⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GKS05-3A □□□ 14LC□□

## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

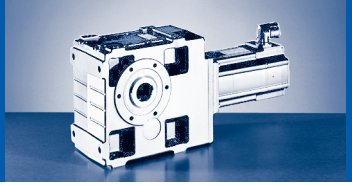
### GKS05...14-4

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

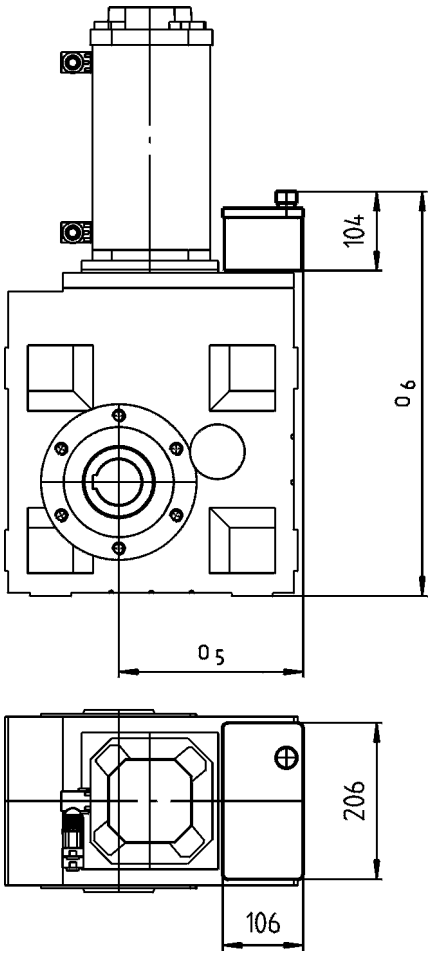
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GKS07-4A □□□ 14LC□□



## Ausgleichsbehälter für Einbaulage C




| GKS□□-3A... | | 14LC□□ [1] | 17NC□□ [1] | 19SC□□ [1] | 21XC□□ [1] |
|---|---|---|---|---|---|
| GKS09... | $o_5$ | 243 | | 265 | 282 |
| | $o_6$ | 533 | | | |
| GKS11... | $o_5$ | 258 | | 280 | 304 |
| | $o_6$ | 626 | | 630 | |
| GKS14... | $o_5$ | | | 313 | 343 |
| | $o_6$ | | | 739 | |

| GKS□□-3S... | | 12□C□□ | 14□C□□ | 19□C□□ |
|---|---|---|---|---|
| GKS09... | $o_5$ | 243 | | 282 |
| | $o_6$ | 533 | | |
| GKS11... | $o_5$ | 258 | | 304 |
| | $o_6$ | 626 | | 630 |
| GKS14... | $o_5$ | | | 343 |
| | $o_6$ | | | 739 |

[1] Stecker- / Klemmenkastenlage 4 ist nicht zulässig.

## GKS□□-3S HAR / HBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | 14 | 15 | | 17 | 18 | 19 | 21 | | | | | | | |
| GKS05... | 23 | | 24 | 25 | 26 | 27 | 29 | | | 32 | | | 35 | |
| GKS06... | 38 | | 39 | 40 | 41 | 42 | 44 | 43 | | 46 | | | 49 | |
| GKS07... | | | | 66 | 67 | 68 | 70 | 69 | | 73 | | | 76 | |
| GKS09... | | | | | | | | 119 | | 122 | | | 125 | |

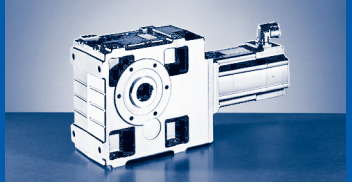
| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | 48 | | 53 | | 58 | | 63 | | | | | | | |
| GKS07... | 75 | | 79 | | 84 | | 89 | | 91 | | 98 | | 108 | |
| GKS09... | 124 | | 129 | | 133 | | 138 | | 140 | | 147 | | 157 | |
| GKS11... | 224 | | 229 | | 233 | | 238 | | 239 | | 246 | | 256 | |
| GKS14... | | | | | | | | | 409 | | 416 | | 426 | |

## GKS□□-4S HAR / HBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | 25 | | 26 | 28 | 29 | 30 | 32 | | | | | | | |
| GKS06... | 42 | | 43 | 45 | 46 | 47 | 49 | | | | | | | |
| GKS07... | 71 | | 72 | 73 | 74 | 75 | 77 | | | 80 | | | 83 | |
| GKS09... | 125 | | 126 | 127 | 128 | 129 | 131 | 130 | | 133 | | | 137 | |
| GKS11... | | | | 235 | 236 | 237 | 239 | 238 | | 242 | | | 245 | |
| GKS14... | | | | | | | | 425 | | 428 | | | 431 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | 135 | | 140 | | 145 | | 150 | | | | | | | |
| GKS11... | 244 | | 249 | | 253 | | 258 | | 261 | | 268 | | 278 | |
| GKS14... | 430 | | 435 | | 439 | | 444 | | 446 | | 453 | | 463 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte



## GKS□□-3A HAR / HBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GKS04... | 18 | 23 | 24 | | | | | | |
| GKS05... | 28 | 32 | 34 | 38 | | 40 | | | |
| GKS06... | 42 | 46 | 48 | 52 | | 54 | | 60 | |
| GKS07... | 68 | 72 | 74 | 78 | | 80 | | 86 | |
| GKS09... | | | | 126 | | 128 | | 134 | |
| GKS11... | | | | 226 | | 228 | | 234 | |
| GKS14... | | | | | | | | | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | | | | | | | | | | |
| GKS06... | 63 | | | | | | | | | |
| GKS07... | 88 | | 109 | | 112 | | 126 | | 129 | |
| GKS09... | 137 | | 157 | | 160 | | 175 | | 178 | |
| GKS11... | 236 | | 256 | | 259 | | 273 | | 276 | |
| GKS14... | | | 427 | | 430 | | 441 | | 445 | |

## GKS□□-4A HAR / HBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GKS05... | 29 | 33 | 35 | | | | | | |
| GKS06... | 46 | 50 | 52 | | | | | | |
| GKS07... | 76 | 80 | 82 | 86 | | 88 | | | |
| GKS09... | 129 | 133 | 135 | 139 | | 141 | | 147 | |
| GKS11... | 237 | 241 | 243 | 247 | | 249 | | 255 | |
| GKS14... | | | | 432 | | 434 | | 440 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | 150 | | | | | | | | | |
| GKS11... | 257 | | 278 | | 282 | | 295 | | 299 | |
| GKS14... | 443 | | 463 | | 466 | | 481 | | 484 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben ca. Werte

## Mehrgewichte Servomotoren MCS

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRS ...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | | 1.5 | | | | | |
| ...P2 | 3.1 | | | | | | | | | | 4.3 | | | |
| ...SCS/SCM/SRM/SRS ...ECN/EQN | 0.3 | | | | | | | | | | | | | |

## Mehrgewichte Servomotoren MCA

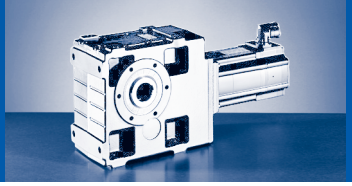
| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | |
| ...CDD ...ECN/EQN/EQI ...SCS/SCM/SRM/SRS/S20 ...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | 2.4 | | 4.8 | | | | 5.0 | | | |
| ...P2/P6 | | | | | | | | | | |
| ...CDD ...ECN/EQN/EQI ...SCS/SCM/SRM/SRS/S20 ...T20 | 0.7 | | 1.0 | | | | 1.1 | | | |

## Mehrgewichte Getriebe

| | Vollwelle | 2. Abtriebswellenende | Hohlwelle mit Schrumpfscheibe | Flansch | Drehmomentstütze Gehäusefuß | Drehmomentstütze Gewindelochkreis |
|---|---|---|---|---|---|---|
| | V□□ | V□□ | S□□ | □□K | | |
| GKS04... | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| GKS05... | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| GKS06... | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| GKS07... | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |
| GKS09... | 8 | 2.7 | 3 | 16 | 13 | |
| GKS11... | 16 | 6.3 | 5 | 24 | 23 | |
| GKS14... | 33 | 12 | 11 | 33 | 44 | |

Gewichte in [kg]

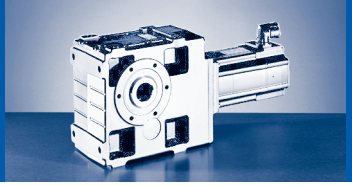


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS04-3 | 5.123 | 67620 | 13200 |
| | 7.025 | 77280 | 11000 |
| | 8.167 | 73500 | 9000 |
| | 8.991 | 83076 | 9240 |
| | 9.836 | 108192 | 11000 |
| | 11.730 | 77420 | 6600 |
| | 13.067 | 78400 | 6000 |
| | 14.333 | 90300 | 6300 |
| | 16.087 | 88480 | 5500 |
| | 17.920 | 89600 | 5000 |
| | 20.588 | 95116 | 4620 |
| | 22.522 | 123872 | 5500 |
| | 25.088 | 125440 | 5000 |
| | 28.727 | 132720 | 4620 |
| | 32.000 | 134400 | 4200 |
| | 35.191 | 139356 | 3960 |
| | 39.200 | 141120 | 3600 |
| | 44.240 | 145992 | 3300 |
| | 50.943 | 168112 | |
| | 56.976 | 150416 | 2640 |
| | 64.978 | 180120 | 2772 |
| | 72.210 | 174748 | 2420 |
| | 79.598 | 189126 | 2376 |
| | 90.491 | 179172 | 1980 |
| | 100.067 | 198132 | |
| | 111.467 | 200640 | 1800 |
| | 128.874 | 204136 | 1584 |
| | 143.556 | 206720 | 1440 |
| | 163.332 | 237158 | 1452 |
| | 181.939 | 240160 | 1320 |
| | 204.682 | 243162 | 1188 |
| | 228.000 | 246240 | 1080 |
| | 269.660 | 249166 | 924 |
| | 300.381 | 252320 | 840 |
| GKS05-3 | 6.863 | 73500 | 10710 |
| | 9.412 | 84000 | 8925 |
| | 10.569 | 80850 | 7650 |
| | 11.667 | 83300 | 7140 |
| | 13.176 | 117600 | 8925 |
| | 14.494 | 92400 | 6375 |
| | 16.000 | 95200 | 5950 |
| | 17.054 | 86975 | 5100 |
| | 19.216 | 88200 | 4590 |
| | 23.388 | 99400 | 4250 |
| | 26.353 | 100800 | 3825 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS05-3 | 29.931 | 106855 | 3570 |
| | 32.744 | 139160 | 4250 |
| | 36.894 | 141120 | 3825 |
| | 41.765 | 149100 | 3570 |
| | 47.059 | 151200 | 3213 |
| | 51.162 | 156555 | 3060 |
| | 57.647 | 158760 | 2754 |
| | 66.592 | 203770 | 3060 |
| | 75.033 | 206640 | 2754 |
| | 82.833 | 168980 | 2040 |
| | 93.333 | 171360 | 1836 |
| | 107.196 | 218680 | 2040 |
| | 120.784 | 221760 | 1836 |
| | 130.097 | 221165 | 1700 |
| | 146.588 | 224280 | 1530 |
| | 166.276 | 226135 | 1360 |
| | 187.353 | 229320 | 1224 |
| | 211.200 | 228096 | 1080 |
| | 227.484 | 227484 | 1000 |
| | 256.320 | 230688 | 900 |
| | 290.745 | 232596 | 800 |
| | 327.600 | 235872 | 720 |
| GKS05-4 | 95.238 | 8568000 | 89964 |
| | 114.987 | 8796480 | 76500 |
| | 126.933 | 9063040 | 71400 |
| | 146.667 | 9424800 | 64260 |
| | 161.905 | 9710400 | 59976 |
| | 185.547 | 9462880 | 51000 |
| | 209.067 | 9596160 | 45900 |
| | 225.867 | 10367280 | |
| | 236.667 | 10138800 | 42840 |
| | 289.917 | 10645740 | 36720 |
| | 326.667 | 10795680 | 33048 |
| | 364.467 | 11152680 | 30600 |
| | 410.667 | 11309760 | 27540 |
| | 469.389 | 11490640 | 24480 |
| | 510.000 | 13109040 | 25704 |
| | 528.889 | 11652480 | 22032 |
| | 594.894 | 13349420 | 22440 |
| | 670.303 | 13537440 | 20196 |
| | 820.760 | 11818944 | 14400 |
| | 924.800 | 11985408 | 12960 |
| | 1040.215 | 13730832 | 13200 |
| | 1172.073 | 13924224 | 11880 |
| | 1303.560 | 14078448 | 10800 |

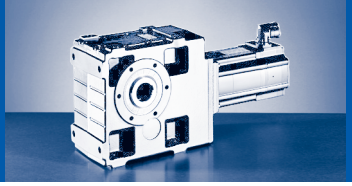


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS05-4 | 1468.800 | 14276736 | 9720 |
| | 1717.389 | 14426064 | 8400 |
| | 1935.086 | 14629248 | 7560 |
| GKS06-3 | 6.485 | 66150 | 10200 |
| | 9.196 | 70350 | 7650 |
| | 10.147 | 72450 | 7140 |
| | 11.382 | 81270 | |
| | 12.612 | 80400 | 6375 |
| | 14.824 | 75600 | 5100 |
| | 16.699 | 76650 | 4590 |
| | 17.809 | 89010 | 4998 |
| | 20.329 | 86400 | 4250 |
| | 22.902 | 87600 | 3825 |
| | 26.017 | 92880 | 3570 |
| | 28.461 | 120960 | 4250 |
| | 32.063 | 122640 | 3825 |
| | 36.303 | 129600 | 3570 |
| | 41.472 | 103680 | 2500 |
| | 44.471 | 136080 | 3060 |
| | 53.074 | 111456 | 2100 |
| | 57.882 | 177120 | 3060 |
| | 65.207 | 179580 | 2754 |
| | 72.000 | 146880 | 2040 |
| | 81.111 | 148920 | 1836 |
| | 93.176 | 190080 | 2040 |
| | 104.967 | 192720 | 1836 |
| | 113.082 | 192240 | 1700 |
| | 127.392 | 194910 | 1530 |
| | 142.941 | 194400 | 1360 |
| | 161.029 | 197100 | 1224 |
| | 190.080 | 228096 | 1200 |
| | 214.133 | 231264 | 1080 |
| | 230.688 | 230688 | 1000 |
| | 259.880 | 233892 | 900 |
| | 291.600 | 233280 | 800 |
| | 328.500 | 236520 | 720 |
| GKS06-4 | 103.721 | 7776000 | 74970 |
| | 113.205 | 10184400 | 89964 |
| | 127.059 | 8164800 | 64260 |
| | 140.816 | 8445600 | 59976 |
| | 155.647 | 8573040 | 55080 |
| | 174.336 | 11202840 | 64260 |
| | 202.588 | 11158560 | 55080 |
| | 224.524 | 11542320 | 51408 |
| | 252.000 | 9253440 | 36720 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS06-4 | **279.286** | 9571680 | 34272 |
| | **316.800** | 9694080 | 30600 |
| | **361.429** | 12386880 | 34272 |
| | **408.000** | 9987840 | 24480 |
| | **458.067** | 14390640 | 31416 |
| | **517.091** | 11603520 | 22440 |
| | **555.927** | 14554170 | 26180 |
| | **640.800** | 13072320 | 20400 |
| | **696.668** | 14922630 | 21420 |
| | **812.137** | 15186960 | 18700 |
| | **914.907** | 15397890 | 16830 |
| | **1017.741** | 15571440 | 15300 |
| | **1146.529** | 15787710 | 13770 |
| | **1340.834** | 15955920 | 11900 |
| | **1510.507** | 16177530 | 10710 |
| GKS07-3 | **5.955** | 65280 | 10962 |
| | **8.254** | 74880 | 9072 |
| | **9.171** | 71808 | 7830 |
| | **10.124** | 73984 | 7308 |
| | **11.378** | 107520 | 9450 |
| | **12.711** | 82368 | 6480 |
| | **14.798** | 77248 | 5220 |
| | **16.674** | 78336 | 4698 |
| | **17.270** | 91392 | 5292 |
| | **20.511** | 88608 | 4320 |
| | **23.111** | 89856 | 3888 |
| | **25.244** | 95424 | 3780 |
| | **28.274** | 127232 | 4500 |
| | **31.858** | 129024 | 4050 |
| | **36.063** | 136320 | 3780 |
| | **40.906** | 107991 | 2640 |
| | **44.178** | 143136 | 3240 |
| | **50.345** | 116298 | 2310 |
| | **57.501** | 186304 | 3240 |
| | **64.790** | 188928 | 2916 |
| | **70.474** | 152224 | 2160 |
| | **79.407** | 154368 | 1944 |
| | **92.563** | 199936 | 2160 |
| | **104.296** | 202752 | 1944 |
| | **112.338** | 202208 | 1800 |
| | **126.578** | 205056 | 1620 |
| | **140.548** | 185523 | 1320 |
| | **158.364** | 188136 | 1188 |
| | **184.600** | 243672 | 1320 |
| | **208.000** | 247104 | 1188 |

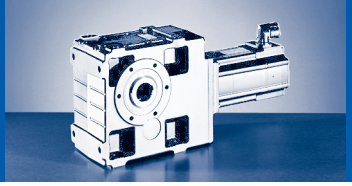


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS07-3 | 224.037 | 246441 | 1100 |
| | 252.436 | 249912 | 990 |
| | 283.193 | 249210 | 880 |
| | 319.091 | 252720 | 792 |
| GKS07-4 | 103.039 | 8179200 | 79380 |
| | 112.391 | 10705920 | 95256 |
| | 126.222 | 8588160 | 68040 |
| | 137.748 | 8747520 | 63504 |
| | 154.622 | 9017568 | 58320 |
| | 179.201 | 14631424 | 81648 |
| | 201.254 | 11737152 | 58320 |
| | 222.909 | 12133376 | 54432 |
| | 246.659 | 9590112 | 38880 |
| | 273.199 | 9913856 | 36288 |
| | 321.049 | 12482368 | 38880 |
| | 358.829 | 13021184 | 36288 |
| | 399.353 | 10351232 | 25920 |
| | 464.367 | 16850944 | 36288 |
| | 516.810 | 13395712 | 25920 |
| | 563.572 | 17042432 | 30240 |
| | 636.581 | 13750144 | 21600 |
| | 683.972 | 17236096 | 25200 |
| | 823.810 | 17794304 | 21600 |
| | 928.237 | 18044928 | 19440 |
| | 999.806 | 17996512 | 18000 |
| | 1126.542 | 18249984 | 16200 |
| | 1277.842 | 18400928 | 14400 |
| | 1439.822 | 18660096 | 12960 |
| GKS09-3 | 12.283 | 87516 | 7125 |
| | 13.360 | 88842 | 6650 |
| | 16.122 | 96492 | 5985 |
| | 17.536 | 97954 | 5586 |
| | 19.541 | 92820 | 4750 |
| | 22.022 | 94146 | 4275 |
| | 25.649 | 102340 | 3990 |
| | 29.228 | 133280 | 4560 |
| | 32.940 | 135184 | 4104 |
| | 35.193 | 140420 | 3990 |
| | 39.662 | 142426 | 3591 |
| | 43.146 | 147560 | 3420 |
| | 48.625 | 149668 | 3078 |
| | 58.456 | 199920 | 3420 |
| | 65.879 | 202776 | 3078 |
| | 70.982 | 161840 | 2280 |
| | 79.996 | 164152 | 2052 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS09-3 | 91.860 | 209440 | 2280 |
| | 103.524 | 212432 | 2052 |
| | 111.484 | 211820 | 1900 |
| | 125.641 | 214846 | 1710 |
| | 140.921 | 214200 | 1520 |
| | 158.816 | 217260 | 1368 |
| | 182.000 | 240240 | 1320 |
| | 205.111 | 243672 | 1188 |
| | 220.882 | 242970 | 1100 |
| | 248.930 | 246441 | 990 |
| | 279.205 | 245700 | 880 |
| | 314.659 | 249210 | 792 |
| GKS09-4 | 100.551 | 8425200 | 83790 |
| | 113.320 | 8545560 | 75411 |
| | 123.275 | 8853600 | 71820 |
| | 138.929 | 8980080 | 64638 |
| | 151.012 | 9296280 | 61560 |
| | 170.188 | 9429084 | 55404 |
| | 204.596 | 12594960 | 61560 |
| | 230.577 | 12774888 | 55404 |
| | 248.439 | 10195920 | 41040 |
| | 279.986 | 10341576 | 36936 |
| | 323.365 | 13270880 | 41040 |
| | 364.427 | 13460464 | 36936 |
| | 402.234 | 11005120 | 27360 |
| | 453.311 | 11162336 | 24624 |
| | 520.538 | 14241920 | 27360 |
| | 586.638 | 14445376 | 24624 |
| | 631.744 | 14403760 | 22800 |
| | 711.965 | 14609528 | 20520 |
| | 817.551 | 18640160 | 22800 |
| | 921.367 | 18906448 | 20520 |
| | 992.209 | 18851980 | 19000 |
| | 1118.204 | 19121294 | 17100 |
| | 1254.197 | 19063800 | 15200 |
| | 1413.461 | 19336140 | 13680 |
| GKS11-3 | 12.094 | 95238 | 7875 |
| | 13.154 | 96681 | 7350 |
| | 15.874 | 105006 | 6615 |
| | 17.265 | 106597 | 6174 |
| | 19.515 | 102453 | 5250 |
| | 21.989 | 103896 | 4725 |
| | 25.615 | 112961 | 4410 |
| | 28.021 | 147112 | 5250 |
| | 31.573 | 149184 | 4725 |

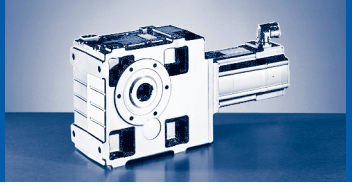


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS11-3 | 35.741 | 157620 | 4410 |
| | 40.272 | 159840 | 3969 |
| | 43.783 | 165501 | 3780 |
| | 49.333 | 167832 | 3402 |
| | 57.683 | 218041 | 3780 |
| | 64.995 | 221112 | 3402 |
| | 70.887 | 178636 | 2520 |
| | 79.873 | 181152 | 2268 |
| | 91.737 | 231176 | 2520 |
| | 103.365 | 234432 | 2268 |
| | 111.335 | 233803 | 2100 |
| | 125.448 | 237096 | 1890 |
| | 140.732 | 236430 | 1680 |
| | 158.571 | 239760 | 1512 |
| | 186.572 | 268664 | 1440 |
| | 210.222 | 272448 | 1296 |
| | 226.431 | 271717 | 1200 |
| | 255.133 | 275544 | 1080 |
| | 286.219 | 274770 | 960 |
| | 322.500 | 278640 | 864 |
| GKS11-4 | 102.119 | 9457200 | 92610 |
| | 115.063 | 9590400 | 83349 |
| | 125.095 | 9930060 | 79380 |
| | 140.952 | 10069920 | 71442 |
| | 153.242 | 10426563 | 68040 |
| | 172.667 | 10573416 | 61236 |
| | 201.890 | 13736583 | 68040 |
| | 227.481 | 13930056 | 61236 |
| | 248.106 | 11254068 | 45360 |
| | 279.556 | 11412576 | 40824 |
| | 322.931 | 14648152 | 45360 |
| | 363.866 | 14854464 | 40824 |
| | 395.787 | 11968612 | 30240 |
| | 445.958 | 12137184 | 27216 |
| | 512.196 | 15488792 | 30240 |
| | 577.122 | 15706944 | 27216 |
| | 621.619 | 15664801 | 25200 |
| | 700.416 | 15885432 | 22680 |
| | 816.455 | 20574664 | 25200 |
| | 919.949 | 20864448 | 22680 |
| | 990.879 | 20808467 | 21000 |
| | 1116.484 | 21101544 | 18900 |
| | 1252.516 | 21042270 | 16800 |
| | 1411.286 | 21338640 | 15120 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS14-3 | 12.435 | 102960 | 8280 |
| | 13.525 | 104520 | 7728 |
| | 16.646 | 112560 | 6762 |
| | 18.311 | 147400 | 8050 |
| | 20.065 | 110760 | 5520 |
| | 22.609 | 112320 | 4968 |
| | 24.696 | 119280 | 4830 |
| | 27.165 | 156200 | 5750 |
| | 30.609 | 158400 | 5175 |
| | 34.692 | 167560 | 4830 |
| | 39.089 | 169920 | 4347 |
| | 42.531 | 176080 | 4140 |
| | 47.923 | 178560 | 3726 |
| | 56.251 | 232880 | 4140 |
| | 63.382 | 236160 | 3726 |
| | 68.942 | 190280 | 2760 |
| | 77.681 | 192960 | 2484 |
| | 90.551 | 249920 | 2760 |
| | 102.029 | 253440 | 2484 |
| | 109.896 | 252760 | 2300 |
| | 123.826 | 256320 | 2070 |
| | 138.913 | 255600 | 1840 |
| | 156.522 | 259200 | 1656 |
| | 186.572 | 268664 | 1440 |
| | 210.222 | 272448 | 1296 |
| | 226.431 | 271717 | 1200 |
| | 255.133 | 275544 | 1080 |
| | 286.219 | 274770 | 960 |
| | 322.500 | 278640 | 864 |
| GKS14-4 | 97.467 | 9886040 | 101430 |
| | 109.822 | 10025280 | 91287 |
| | 119.493 | 10388720 | 86940 |
| | 134.640 | 10535040 | 78246 |
| | 158.039 | 13739920 | 86940 |
| | 178.072 | 13933440 | 78246 |
| | 193.754 | 14438560 | 74520 |
| | 218.315 | 14641920 | 67068 |
| | 237.467 | 11797360 | 49680 |
| | 267.568 | 11963520 | 44712 |
| | 321.729 | 15983520 | 49680 |
| | 362.512 | 16208640 | 44712 |
| | 390.671 | 12939040 | 33120 |
| | 440.193 | 13121280 | 29808 |
| | 513.121 | 16994560 | 33120 |
| | 578.164 | 17233920 | 29808 |



► $i_g = z_g / z_t$

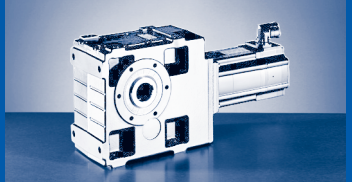
| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GKS14-4 | **622.742** | 17187680 | 27600 |
| | **701.681** | 17429760 | 24840 |
| | **805.901** | 22242880 | 27600 |
| | **908.058** | 22556160 | 24840 |
| | **978.071** | 22495640 | 23000 |
| | **1102.052** | 22812480 | 20700 |
| | **1236.326** | 22748400 | 18400 |
| | **1393.043** | 23068800 | 16560 |

## $M_{2\,GN} \leq 187$ Nm

| GKS04-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 5.123 | 81 | 1.17 | $M_2$ | | | | 11 | 15 | 18 | 22 |
| | | | c | | | | 5.2 | 3.9 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 791 | 732 | 791 | 791 |
| | | | $n_{2\,th}$ | | | | 708 | 674 | 646 | 625 |
| 7.025 | 93 | 0.68 | $M_2$ | | | | 15 | 20 | 25 | 30 |
| | | | c | | | | 4.3 | 3.3 | 2.6 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | 577 | 534 | 577 | 577 |
| | | | $n_{2\,th}$ | | | | 554 | 529 | 508 | 493 |
| 8.167 | 128 | 0.86 | $M_2$ | | | | 17 | 23 | 29 | 34 |
| | | | c | | | | 5.2 | 3.9 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 496 | 459 | 496 | 496 |
| | | | $n_{2\,th}$ | | | | 444 | 423 | 405 | 392 |
| 8.991 | 103 | 0.44 | $M_2$ | | | 12 | 19 | 26 | 32 | 38 |
| | | | c | | | 5.8 | 3.8 | 2.9 | 2.3 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 451 | 451 | 417 | 451 | 451 |
| | | | $n_{2\,th}$ | | | 450 | 450 | 417 | 450 | 440 |
| 9.836 | 106 | 0.38 | $M_2$ | | | 13 | 21 | 28 | 35 | 42 |
| | | | c | | | 5.5 | 3.6 | 2.7 | 2.2 | 1.8 |
| | | | $n_{2\,Eck}$ | | | 412 | 412 | 381 | 412 | 412 |
| | | | $n_{2\,th}$ | | | 412 | 412 | 381 | 412 | 406 |
| 11.730 | 180 | 0.73 | $M_2$ | | | | 25 | 34 | 41 | 49 |
| | | | c | | | | 5.0 | 3.8 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 345 | 320 | 345 | 345 |
| | | | $n_{2\,th}$ | | | | 308 | 293 | 281 | 271 |
| 13.067 | 165 | 0.70 | $M_2$ | | | | 28 | 38 | 46 | 55 |
| | | | c | | | | 4.2 | 3.2 | 2.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 310 | 287 | 310 | 310 |
| | | | $n_{2\,th}$ | | | | 267 | 254 | 242 | 234 |
| 14.333 | 164 | 0.35 | $M_2$ | | | 19 | 30 | 41 | 51 | 61 |
| | | | c | | | 5.8 | 3.8 | 2.9 | 2.3 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 283 | 283 | 262 | 283 | 283 |
| | | | $n_{2\,th}$ | | | 283 | 283 | 262 | 283 | 276 |
| 16.087 | 181 | 0.44 | $M_2$ | | | 22 | 34 | 46 | 57 | 68 |
| | | | c | | | 5.7 | 3.7 | 2.8 | 2.2 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 252 | 252 | 233 | 252 | 252 |
| | | | $n_{2\,th}$ | | | 252 | 236 | 225 | 216 | 206 |
| 17.920 | 166 | 0.43 | $M_2$ | | 19 | 25 | 38 | 52 | 64 | 76 |
| | | | c | | 5.8 | 4.7 | 3.1 | 2.3 | 1.8 | 1.6 |
| | | | $n_{2\,Eck}$ | | 226 | 226 | 226 | 209 | 226 | 226 |
| | | | $n_{2\,th}$ | | 226 | 220 | 205 | 195 | 183 | 169 |
| 20.588 | 182 | 0.30 | $M_2$ | | 22 | 28 | 44 | 60 | 74 | 88 |
| | | | c | | 5.6 | 4.5 | 2.9 | 2.2 | 1.8 | 1.5 |
| | | | $n_{2\,Eck}$ | | 197 | 197 | 197 | 182 | 197 | 197 |
| | | | $n_{2\,th}$ | | 197 | 197 | 197 | 182 | 183 | 168 |
| 22.522 | 182 | 0.26 | $M_2$ | | 25 | 31 | 48 | 66 | 81 | 96 |
| | | | c | | 5.1 | 4.1 | 2.7 | 2.0 | 1.6 | 1.4 |
| | | | $n_{2\,Eck}$ | | 180 | 180 | 180 | 167 | 180 | 180 |
| | | | $n_{2\,th}$ | | 180 | 180 | 180 | 167 | 167 | 154 |
| 25.088 | 167 | 0.25 | $M_2$ | | 28 | 35 | 54 | 73 | 90 | 107 |
| | | | c | | 4.2 | 3.4 | 2.2 | 1.7 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 161 | 161 | 161 | 150 | 161 | 161 |
| | | | $n_{2\,th}$ | | 161 | 161 | 161 | 149 | 137 | 128 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 187$ Nm

| GKS04-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 28.727 | 183 | 0.18 | $M_2$ | | 32 | 40 | 62 | 84 | 103 | 123 |
| | | | c | | 4.0 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 141 | 141 | 141 | 131 | 141 | 141 |
| | | | $n_{2\,th}$ | | 141 | 141 | 141 | 131 | 135 | 127 |
| 32.000 | 167 | 0.18 | $M_2$ | | 36 | 45 | 69 | 94 | 115 | |
| | | | c | | 3.3 | 2.6 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 127 | 127 | 127 | 117 | 127 | |
| | | | $n_{2\,th}$ | | 127 | 127 | 127 | 117 | 113 | |
| 35.191 | 183 | 0.14 | $M_2$ | | 39 | 49 | 76 | 103 | 127 | |
| | | | c | | 3.3 | 2.6 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 115 | 115 | 115 | 107 | 115 | |
| | | | $n_{2\,th}$ | | 115 | 115 | 115 | 107 | 115 | |
| 39.200 | 168 | 0.13 | $M_2$ | 21 | 44 | 55 | 85 | 115 | | |
| | | | c | 5.4 | 2.7 | 2.2 | 1.4 | 1.1 | | |
| | | | $n_{2\,Eck}$ | 103 | 103 | 103 | 103 | 96 | | |
| | | | $n_{2\,th}$ | 103 | 103 | 103 | 103 | 96 | | |
| 44.240 | 185 | 0.09 | $M_2$ | 24 | 49 | 62 | | | | |
| | | | c | 6.0 | 3.0 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | 92 | 92 | 92 | | | | |
| | | | $n_{2\,th}$ | 92 | 92 | 92 | | | | |
| 50.943 | 182 | 0.18 | $M_2$ | 28 | 57 | 72 | 111 | 150 | | |
| | | | c | 5.1 | 2.6 | 2.1 | 1.3 | 1.0 | | |
| | | | $n_{2\,Eck}$ | 80 | 80 | 80 | 80 | 74 | | |
| | | | $n_{2\,th}$ | 80 | 80 | 80 | 68 | 61 | | |
| 56.976 | 187 | 0.06 | $M_2$ | 31 | 64 | 80 | | | | |
| | | | c | 4.7 | 2.4 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 71 | 71 | 71 | | | | |
| | | | $n_{2\,th}$ | 71 | 71 | 71 | | | | |
| 64.978 | 183 | 0.13 | $M_2$ | 36 | 73 | 92 | 142 | | | |
| | | | c | 4.0 | 2.0 | 1.6 | 1.1 | | | |
| | | | $n_{2\,Eck}$ | 62 | 62 | 62 | 62 | | | |
| | | | $n_{2\,th}$ | 62 | 62 | 62 | 56 | | | |
| 79.598 | 183 | 0.10 | $M_2$ | 44 | 90 | 113 | | | | |
| | | | c | 3.3 | 1.7 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 51 | 51 | 51 | | | | |
| | | | $n_{2\,th}$ | 51 | 51 | 51 | | | | |
| 100.067 | 185 | 0.07 | $M_2$ | 56 | 114 | 142 | | | | |
| | | | c | 2.7 | 1.3 | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 41 | 41 | 41 | | | | |
| | | | $n_{2\,th}$ | 40 | 40 | 40 | | | | |
| 111.467 | 170 | 0.07 | $M_2$ | 63 | 127 | | | | | |
| | | | c | 2.4 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | 36 | 36 | | | | | |
| | | | $n_{2\,th}$ | 36 | 36 | | | | | |
| 128.874 | 187 | 0.05 | $M_2$ | 72 | 147 | | | | | |
| | | | c | 2.3 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | 31 | 31 | | | | | |
| | | | $n_{2\,th}$ | 31 | 31 | | | | | |
| 143.556 | 172 | 0.05 | $M_2$ | 81 | | | | | | |
| | | | c | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 28 | | | | | | |
| | | | $n_{2\,th}$ | 28 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

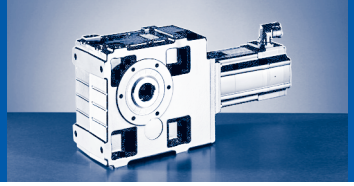
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 331$ Nm

| GKS05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 6.863 | 147 | 1.90 | $M_2$ | | | | | 19 | 24 | 29 |
| | | | c | | | | | 5.4 | 4.3 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | 546 | 590 | 590 |
| | | | $n_{2\,th}$ | | | | | 446 | 427 | 413 |
| 9.412 | 165 | 1.17 | $M_2$ | | | | 20 | 27 | 33 | 39 |
| | | | c | | | | 5.8 | 4.4 | 3.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 430 | 398 | 430 | 430 |
| | | | $n_{2\,th}$ | | | | 385 | 366 | 351 | 339 |
| 10.569 | 227 | 1.60 | $M_2$ | | | | | 30 | 37 | 44 |
| | | | c | | | | | 5.4 | 4.3 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | 355 | 383 | 383 |
| | | | $n_{2\,th}$ | | | | | 289 | 277 | 268 |
| 11.667 | 251 | 1.65 | $M_2$ | | | | | 33 | 41 | 48 |
| | | | c | | | | | 5.4 | 4.3 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | 321 | 347 | 347 |
| | | | $n_{2\,th}$ | | | | | 262 | 251 | 243 |
| 13.176 | 165 | 0.71 | $M_2$ | | | | 28 | 38 | 47 | 56 |
| | | | c | | | | 4.1 | 3.1 | 2.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 307 | 285 | 307 | 307 |
| | | | $n_{2\,th}$ | | | | 292 | 279 | 268 | 260 |
| 14.494 | 254 | 1.05 | $M_2$ | | | | 30 | 41 | 51 | 61 |
| | | | c | | | | 5.8 | 4.4 | 3.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 279 | 259 | 279 | 279 |
| | | | $n_{2\,th}$ | | | | 250 | 238 | 228 | 220 |
| 16.000 | 280 | 1.04 | $M_2$ | | | | 33 | 45 | 56 | 67 |
| | | | c | | | | 5.8 | 4.4 | 3.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 253 | 234 | 253 | 253 |
| | | | $n_{2\,th}$ | | | | 226 | 215 | 206 | 200 |
| 17.054 | 314 | 1.51 | $M_2$ | | | | | 48 | 60 | 71 |
| | | | c | | | | | 4.6 | 3.7 | 3.1 |
| | | | $n_{2\,Eck}$ | | | | | 220 | 238 | 238 |
| | | | $n_{2\,th}$ | | | | | 174 | 166 | 161 |
| 19.216 | 297 | 1.47 | $M_2$ | | | | 40 | 55 | 68 | 81 |
| | | | c | | | | 5.1 | 3.9 | 3.1 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 211 | 195 | 211 | 211 |
| | | | $n_{2\,th}$ | | | | 157 | 149 | 143 | 138 |
| 23.388 | 329 | 0.96 | $M_2$ | | | | 49 | 67 | 83 | 99 |
| | | | c | | | | 4.6 | 3.5 | 2.8 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 173 | 160 | 173 | 173 |
| | | | $n_{2\,th}$ | | | | 149 | 141 | 135 | 131 |
| 26.353 | 298 | 0.95 | $M_2$ | | | | 56 | 76 | 94 | 112 |
| | | | c | | | | 3.7 | 2.8 | 2.3 | 1.9 |
| | | | $n_{2\,Eck}$ | | | | 154 | 142 | 154 | 154 |
| | | | $n_{2\,th}$ | | | | 127 | 120 | 115 | 109 |
| 29.931 | 330 | 0.67 | $M_2$ | | | 41 | 64 | 87 | 107 | 127 |
| | | | c | | | 5.6 | 3.6 | 2.8 | 2.2 | 1.9 |
| | | | $n_{2\,Eck}$ | | | 135 | 135 | 125 | 135 | 135 |
| | | | $n_{2\,th}$ | | | 131 | 122 | 116 | 111 | 105 |
| 32.744 | 331 | 0.58 | $M_2$ | | | 45 | 70 | 95 | 117 | 139 |
| | | | c | | | 5.1 | 3.3 | 2.5 | 2.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | | 124 | 124 | 115 | 124 | 124 |
| | | | $n_{2\,th}$ | | | 122 | 113 | 108 | 104 | 96 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 331$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GKS05-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 35 | 27 | 64 | 51 | 48 | 88 | 71 | $M_2$ | 1.90 | 147 | 6.863 |
| 3.8 | 3.8 | 2.3 | 2.2 | 2.3 | 1.5 | 1.5 | c | | | |
| 284 | 590 | 219 | 437 | 514 | 284 | 590 | $n_{2\,Eck}$ | | | |
| 284 | 416 | 219 | 373 | 374 | 284 | 309 | $n_{2\,th}$ | | | |
| 48 | 38 | 89 | 71 | 66 | 120 | 98 | $M_2$ | 1.17 | 165 | 9.412 |
| 3.1 | 3.1 | 1.8 | 1.8 | 1.9 | 1.3 | 1.2 | c | | | |
| 207 | 430 | 159 | 319 | 375 | 207 | 430 | $n_{2\,Eck}$ | | | |
| 207 | 342 | 159 | 299 | 301 | 207 | 240 | $n_{2\,th}$ | | | |
| 54 | 42 | 99 | 79 | 74 | 135 | 110 | $M_2$ | 1.60 | 227 | 10.569 |
| 3.8 | 3.8 | 2.3 | 2.2 | 2.3 | 1.5 | 1.5 | c | | | |
| 185 | 383 | 142 | 284 | 334 | 185 | 383 | $n_{2\,Eck}$ | | | |
| 185 | 270 | 142 | 242 | 243 | 185 | 201 | $n_{2\,th}$ | | | |
| 59 | 46 | 109 | 87 | 82 | 149 | 121 | $M_2$ | 1.65 | 251 | 11.667 |
| 3.8 | 3.8 | 2.3 | 2.2 | 2.3 | 1.5 | 1.5 | c | | | |
| 167 | 347 | 129 | 257 | 302 | 167 | 347 | $n_{2\,Eck}$ | | | |
| 167 | 245 | 129 | 219 | 220 | 167 | 182 | $n_{2\,th}$ | | | |
| 68 | 53 | 125 | 100 | 94 | | | $M_2$ | 0.71 | 165 | 13.176 |
| 2.2 | 2.2 | 1.3 | 1.3 | 1.3 | | | c | | | |
| 148 | 307 | 114 | 228 | 268 | | | $n_{2\,Eck}$ | | | |
| 148 | 262 | 114 | 212 | 213 | | | $n_{2\,th}$ | | | |
| 74 | 58 | 136 | 109 | 102 | 185 | 151 | $M_2$ | 1.05 | 254 | 14.494 |
| 3.1 | 3.1 | 1.8 | 1.8 | 1.9 | 1.3 | 1.2 | c | | | |
| 135 | 279 | 104 | 207 | 243 | 135 | 279 | $n_{2\,Eck}$ | | | |
| 135 | 222 | 103 | 194 | 195 | 135 | 156 | $n_{2\,th}$ | | | |
| 82 | 64 | 151 | 121 | 113 | 205 | 167 | $M_2$ | 1.04 | 280 | 16.000 |
| 3.1 | 3.1 | 1.8 | 1.8 | 1.9 | 1.3 | 1.2 | c | | | |
| 122 | 253 | 94 | 188 | 220 | 122 | 253 | $n_{2\,Eck}$ | | | |
| 122 | 201 | 94 | 176 | 177 | 122 | 141 | $n_{2\,th}$ | | | |
| 87 | 68 | 160 | 128 | 120 | 218 | 178 | $M_2$ | 1.51 | 314 | 17.054 |
| 3.2 | 3.2 | 1.9 | 1.9 | 1.9 | 1.3 | 1.3 | c | | | |
| 114 | 238 | 88 | 176 | 207 | 114 | 238 | $n_{2\,Eck}$ | | | |
| 114 | 162 | 88 | 144 | 145 | 114 | 115 | $n_{2\,th}$ | | | |
| 99 | 77 | 181 | 145 | 136 | 246 | 201 | $M_2$ | 1.47 | 297 | 19.216 |
| 2.7 | 2.7 | 1.6 | 1.6 | 1.6 | 1.1 | 1.1 | c | | | |
| 102 | 211 | 78 | 156 | 183 | 102 | 211 | $n_{2\,Eck}$ | | | |
| 101 | 139 | 78 | 116 | 116 | 96 | 94 | $n_{2\,th}$ | | | |
| 120 | 94 | 221 | 177 | 166 | 300 | | $M_2$ | 0.96 | 329 | 23.388 |
| 2.5 | 2.5 | 1.5 | 1.5 | 1.5 | 1.0 | | c | | | |
| 83 | 173 | 64 | 128 | 151 | 83 | | $n_{2\,Eck}$ | | | |
| 83 | 132 | 64 | 107 | 107 | 83 | | $n_{2\,th}$ | | | |
| 136 | 107 | 250 | 200 | 187 | | | $M_2$ | 0.95 | 298 | 26.353 |
| 2.0 | 2.0 | 1.2 | 1.2 | 1.2 | | | c | | | |
| 74 | 154 | 57 | 114 | 134 | | | $n_{2\,Eck}$ | | | |
| 74 | 112 | 57 | 85 | 85 | | | $n_{2\,th}$ | | | |
| 155 | 121 | 284 | 227 | 213 | | | $M_2$ | 0.67 | 330 | 29.931 |
| 1.9 | 1.9 | 1.2 | 1.2 | 1.2 | | | c | | | |
| 65 | 135 | 50 | 100 | 118 | | | $n_{2\,Eck}$ | | | |
| 65 | 108 | 50 | 84 | 85 | | | $n_{2\,th}$ | | | |
| 170 | 133 | 311 | 249 | 233 | | | $M_2$ | 0.58 | 331 | 32.744 |
| 1.8 | 1.8 | 1.1 | 1.1 | 1.1 | | | c | | | |
| 60 | 124 | 46 | 92 | 108 | | | $n_{2\,Eck}$ | | | |
| 60 | 98 | 46 | 79 | 79 | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

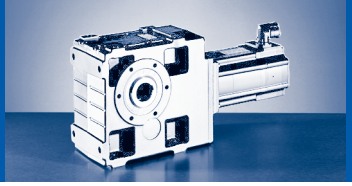
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 331$ Nm

| GKS05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 36.894 | 302 | 0.58 | $M_2$ | | 40 | 51 | 79 | 107 | 132 | 157 |
| | | | c | | 5.2 | 4.1 | 2.7 | 2.1 | 1.6 | 1.4 |
| | | | $n_{2\,Eck}$ | | 110 | 110 | 110 | 102 | 110 | 110 |
| | | | $n_{2\,th}$ | | 108 | 104 | 97 | 92 | 83 | 77 |
| 41.765 | 331 | 0.42 | $M_2$ | | 46 | 58 | 90 | 122 | 150 | 178 |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 97 | 97 | 97 | 90 | 97 | 97 |
| | | | $n_{2\,th}$ | | 97 | 97 | 97 | 90 | 86 | 79 |
| 47.059 | 304 | 0.41 | $M_2$ | | 52 | 65 | 101 | 137 | 169 | 201 |
| | | | c | | 4.6 | 3.7 | 2.4 | 1.8 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | | 86 | 86 | 86 | 80 | 86 | 86 |
| | | | $n_{2\,th}$ | | 86 | 86 | 86 | 80 | 74 | 68 |
| 51.162 | 331 | 0.32 | $M_2$ | | 56 | 71 | 110 | 149 | 184 | 218 |
| | | | c | | 4.6 | 3.7 | 2.4 | 1.8 | 1.5 | 1.2 |
| | | | $n_{2\,Eck}$ | | 79 | 79 | 79 | 73 | 79 | 79 |
| | | | $n_{2\,th}$ | | 79 | 79 | 79 | 73 | 76 | 71 |
| 57.647 | 307 | 0.32 | $M_2$ | | 64 | 80 | 125 | 169 | 208 | 246 |
| | | | c | | 3.8 | 3.1 | 2.0 | 1.5 | 1.2 | 1.0 |
| | | | $n_{2\,Eck}$ | | 70 | 70 | 70 | 65 | 70 | 70 |
| | | | $n_{2\,th}$ | | 70 | 70 | 70 | 65 | 62 | 59 |
| 66.592 | 331 | 0.20 | $M_2$ | | 74 | 93 | 144 | 195 | 240 | |
| | | | c | | 3.6 | 2.9 | 1.9 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 61 | 61 | 61 | 56 | 61 | |
| | | | $n_{2\,th}$ | | 61 | 61 | 61 | 56 | 61 | |
| 75.033 | 310 | 0.20 | $M_2$ | 41 | 84 | 105 | 163 | 221 | | |
| | | | c | 5.9 | 3.0 | 2.4 | 1.5 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 54 | 54 | 54 | 54 | 50 | | |
| | | | $n_{2\,th}$ | 54 | 54 | 54 | 54 | 50 | | |
| 82.833 | 331 | 0.14 | $M_2$ | 45 | 93 | 116 | 180 | 244 | | |
| | | | c | 5.7 | 2.9 | 2.3 | 1.5 | 1.1 | | |
| | | | $n_{2\,Eck}$ | 49 | 49 | 49 | 49 | 45 | | |
| | | | $n_{2\,th}$ | 49 | 49 | 49 | 49 | 45 | | |
| 93.333 | 315 | 0.14 | $M_2$ | 51 | 105 | 132 | 203 | | | |
| | | | c | 4.8 | 2.4 | 1.9 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 43 | 43 | 43 | 43 | | | |
| | | | $n_{2\,th}$ | 43 | 43 | 43 | 43 | | | |
| 107.196 | 331 | 0.09 | $M_2$ | 59 | 121 | 151 | | | | |
| | | | c | 4.4 | 2.2 | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 38 | 38 | 38 | | | | |
| | | | $n_{2\,th}$ | 38 | 38 | 38 | | | | |
| 120.784 | 315 | 0.09 | $M_2$ | 67 | 136 | 171 | | | | |
| | | | c | 4.1 | 2.1 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 34 | 34 | 34 | | | | |
| | | | $n_{2\,th}$ | 34 | 34 | 34 | | | | |
| 130.097 | 331 | 0.07 | $M_2$ | 72 | 147 | 184 | | | | |
| | | | c | 4.0 | 2.0 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 31 | 31 | 31 | | | | |
| | | | $n_{2\,th}$ | 31 | 31 | 31 | | | | |
| 146.588 | 315 | 0.07 | $M_2$ | 81 | 166 | 208 | | | | |
| | | | c | 3.4 | 1.7 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 28 | 28 | 28 | | | | |
| | | | $n_{2\,th}$ | 28 | 28 | 28 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 331$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GKS05-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 192 | 150 | | | | | | $M_2$ | 0.58 | 302 | 36.894 |
| 1.4 | 1.4 | | | | | | c | | | |
| 53 | 110 | | | | | | $n_{2\,Eck}$ | | | |
| 53 | 79 | | | | | | $n_{2\,th}$ | | | |
| 217 | 170 | | | | | | $M_2$ | 0.42 | 331 | 41.765 |
| 1.4 | 1.4 | | | | | | c | | | |
| 47 | 97 | | | | | | $n_{2\,Eck}$ | | | |
| 47 | 81 | | | | | | $n_{2\,th}$ | | | |
| 245 | 192 | | | | | | $M_2$ | 0.41 | 304 | 47.059 |
| 1.2 | 1.3 | | | | | | c | | | |
| 41 | 86 | | | | | | $n_{2\,Eck}$ | | | |
| 41 | 70 | | | | | | $n_{2\,th}$ | | | |
| 267 | 208 | | | | | | $M_2$ | 0.32 | 331 | 51.162 |
| 1.2 | 1.3 | | | | | | c | | | |
| 38 | 79 | | | | | | $n_{2\,Eck}$ | | | |
| 38 | 72 | | | | | | $n_{2\,th}$ | | | |
| 301 | 235 | | | | | | $M_2$ | 0.32 | 307 | 57.647 |
| 1.0 | 1.1 | | | | | | c | | | |
| 34 | 70 | | | | | | $n_{2\,Eck}$ | | | |
| 34 | 60 | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.20 | 331 | 66.592 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.20 | 310 | 75.033 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.14 | 331 | 82.833 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.14 | 315 | 93.333 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.09 | 331 | 107.196 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.09 | 315 | 120.784 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.07 | 331 | 130.097 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.07 | 315 | 146.588 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

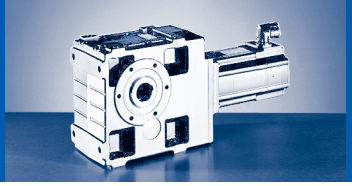
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 331$ Nm

| GKS05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 211.200 | 314 | 0.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 119<br>2.4<br>19<br>19 | 240<br>1.2<br>19<br>19 | | | | | |
| 227.484 | 278 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 128<br>1.9<br>18<br>18 | | | | | | |
| 256.320 | 313 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 145<br>1.9<br>16<br>16 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 331$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GKS05-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.08 | 314 | 211.200 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.06 | 278 | 227.484 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.06 | 313 | 256.320 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

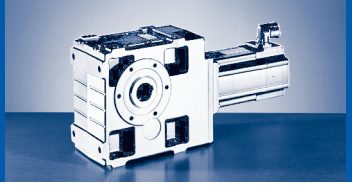
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 331$ Nm

| GKS05-4S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 95.238 | 167 | 0.14 | $M_2$ | 52 | 106 | 133 |
| | | | c | 2.6 | 1.3 | 1.0 |
| | | | $n_{2\,Eck}$ | 43 | 43 | 43 |
| | | | $n_{2\,th}$ | 43 | 43 | 43 |
| 114.987 | 256 | 0.20 | $M_2$ | 63 | 128 | 160 |
| | | | c | 3.6 | 1.8 | 1.4 |
| | | | $n_{2\,Eck}$ | 35 | 35 | 35 |
| | | | $n_{2\,th}$ | 35 | 35 | 35 |
| 126.933 | 283 | 0.20 | $M_2$ | 69 | 141 | 177 |
| | | | c | 3.6 | 1.8 | 1.4 |
| | | | $n_{2\,Eck}$ | 32 | 32 | 32 |
| | | | $n_{2\,th}$ | 32 | 32 | 32 |
| 146.667 | 256 | 0.14 | $M_2$ | 81 | 164 | 205 |
| | | | c | 2.8 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 28 | 28 | 28 |
| | | | $n_{2\,th}$ | 28 | 28 | 28 |
| 161.905 | 283 | 0.14 | $M_2$ | 89 | 181 | 226 |
| | | | c | 2.8 | 1.4 | 1.1 |
| | | | $n_{2\,Eck}$ | 25 | 25 | 25 |
| | | | $n_{2\,th}$ | 25 | 25 | 25 |
| 185.547 | 331 | 0.20 | $M_2$ | 102 | 207 | 259 |
| | | | c | 2.9 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | 22 | 22 | 22 |
| | | | $n_{2\,th}$ | 22 | 22 | 22 |
| 209.067 | 315 | 0.20 | $M_2$ | 115 | 234 | |
| | | | c | 2.4 | 1.2 | |
| | | | $n_{2\,Eck}$ | 19 | 19 | |
| | | | $n_{2\,th}$ | 19 | 19 | |
| 225.867 | 256 | 0.07 | $M_2$ | 125 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 18 | | |
| | | | $n_{2\,th}$ | 18 | | |
| 236.667 | 331 | 0.14 | $M_2$ | 131 | 265 | |
| | | | c | 2.3 | 1.1 | |
| | | | $n_{2\,Eck}$ | 17 | 17 | |
| | | | $n_{2\,th}$ | 17 | 17 | |
| 289.917 | 331 | 0.11 | $M_2$ | 161 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 14 | | |
| | | | $n_{2\,th}$ | 14 | | |
| 326.667 | 315 | 0.11 | $M_2$ | 182 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 12 | | |
| | | | $n_{2\,th}$ | 12 | | |
| 364.467 | 331 | 0.07 | $M_2$ | 203 | | |
| | | | c | 1.4 | | |
| | | | $n_{2\,Eck}$ | 11 | | |
| | | | $n_{2\,th}$ | 11 | | |
| 410.667 | 315 | 0.07 | $M_2$ | 229 | | |
| | | | c | 1.2 | | |
| | | | $n_{2\,Eck}$ | 10 | | |
| | | | $n_{2\,th}$ | 10 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 331$ Nm

| GKS05-4S | | | | 06CC41 | 06FC41 | 06IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 |
| 469.389 | 331 | 0.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 263<br>1.1<br>9<br>9 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

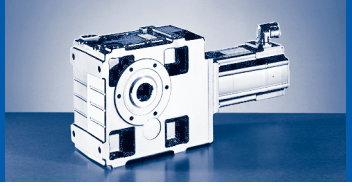
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 6.485 | 263 | 5.87 | $M_2$ | | | | | | | | | | 59 | 48 |
| | | | c | | | | | | | | | | 4.3 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 231 | 463 |
| | | | $n_{2\,th}$ | | | | | | | | | | 231 | 381 |
| 9.196 | 373 | 5.05 | $M_2$ | | | | | | | | | | 84 | 67 |
| | | | c | | | | | | | | | | 4.3 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 163 | 326 |
| | | | $n_{2\,th}$ | | | | | | | | | | 163 | 269 |
| 10.147 | 412 | 4.86 | $M_2$ | | | | | | | | | | 93 | 74 |
| | | | c | | | | | | | | | | 4.3 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 148 | 296 |
| | | | $n_{2\,th}$ | | | | | | | | | | 148 | 244 |
| 11.382 | 331 | 2.49 | $M_2$ | | | | | | 39 | 47 | 57 | 44 | 106 | 85 |
| | | | c | | | | | | 5.8 | 4.9 | 5.1 | 5.1 | 3.1 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | | 356 | 356 | 171 | 356 | 132 | 264 |
| | | | $n_{2\,th}$ | | | | | | 309 | 300 | 171 | 302 | 132 | 264 |
| 12.612 | 426 | 3.20 | $M_2$ | | | | | | | | 62 | 49 | 117 | 93 |
| | | | c | | | | | | | | 5.9 | 5.9 | 3.6 | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | 155 | 321 | 119 | 238 |
| | | | $n_{2\,th}$ | | | | | | | | 155 | 243 | 119 | 219 |
| 14.824 | 600 | 4.29 | $M_2$ | | | | | | | | | | 136 | 109 |
| | | | c | | | | | | | | | | 4.3 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 101 | 202 |
| | | | $n_{2\,th}$ | | | | | | | | | | 101 | 167 |
| 16.699 | 604 | 4.16 | $M_2$ | | | | | | | | | | 154 | 123 |
| | | | c | | | | | | | | | | 3.8 | 3.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | 90 | 180 |
| | | | $n_{2\,th}$ | | | | | | | | | | 90 | 144 |
| 17.809 | 518 | 2.13 | $M_2$ | | | | | | 61 | 73 | 89 | 70 | 165 | 132 |
| | | | c | | | | | | 5.8 | 4.9 | 5.1 | 5.1 | 3.1 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | | 227 | 227 | 110 | 227 | 84 | 169 |
| | | | $n_{2\,th}$ | | | | | | 198 | 192 | 109 | 193 | 84 | 168 |
| 20.329 | 665 | 2.79 | $M_2$ | | | | | | | | 101 | 79 | 188 | 151 |
| | | | c | | | | | | | | 5.7 | 5.8 | 3.5 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | | | | 96 | 199 | 74 | 148 |
| | | | $n_{2\,th}$ | | | | | | | | 96 | 150 | 74 | 135 |
| 22.902 | 606 | 2.73 | $M_2$ | | | | | | | | 115 | 90 | 213 | 171 |
| | | | c | | | | | | | | 4.6 | 4.7 | 2.8 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 85 | 177 | 66 | 131 |
| | | | $n_{2\,th}$ | | | | | | | | 85 | 128 | 66 | 115 |
| 26.017 | 679 | 1.94 | $M_2$ | | | | | | 90 | 107 | 131 | 102 | 243 | 194 |
| | | | c | | | | | | 5.2 | 4.4 | 4.6 | 4.6 | 2.8 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | | 156 | 156 | 75 | 156 | 58 | 115 |
| | | | $n_{2\,th}$ | | | | | | 133 | 128 | 75 | 130 | 58 | 115 |
| 28.461 | 682 | 1.67 | $M_2$ | | | | | 79 | 99 | 118 | 144 | 112 | 266 | 213 |
| | | | c | | | | | 6.0 | 4.8 | 4.0 | 4.2 | 4.2 | 2.5 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | 132 | 142 | 142 | 69 | 142 | 53 | 105 |
| | | | $n_{2\,th}$ | | | | | 128 | 123 | 119 | 69 | 120 | 53 | 105 |
| 32.063 | 610 | 1.63 | $M_2$ | | | | | 91 | 112 | 134 | 163 | 128 | 301 | 241 |
| | | | c | | | | | 4.8 | 3.8 | 3.2 | 3.3 | 3.4 | 2.0 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | 117 | 126 | 126 | 61 | 126 | 47 | 94 |
| | | | $n_{2\,th}$ | | | | | 109 | 105 | 101 | 61 | 102 | 47 | 92 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS06-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 45 | 82 | 66 | 55 | 45 | 97 | 85 | 140 | 105 | 184 | 129 | $M_2$ | 5.87 | 263 | 6.485 |
| 4.3 | 2.9 | 2.8 | 4.6 | 4.3 | 2.7 | 2.4 | 1.9 | 1.9 | 1.4 | 1.6 | c | | | |
| 544 | 301 | 625 | 231 | 555 | 231 | 497 | 231 | 497 | 208 | 497 | $n_{2\,Eck}$ | | | |
| 382 | 301 | 348 | 231 | 381 | 231 | 335 | 231 | 317 | 208 | 282 | $n_{2\,th}$ | | | |
| 63 | 116 | 94 | 77 | 63 | 137 | 121 | 199 | 149 | 261 | 182 | $M_2$ | 5.05 | 373 | 9.196 |
| 4.3 | 2.9 | 2.8 | 4.6 | 4.3 | 2.7 | 2.4 | 1.9 | 1.9 | 1.4 | 1.6 | c | | | |
| 383 | 212 | 440 | 163 | 392 | 163 | 351 | 163 | 351 | 147 | 351 | $n_{2\,Eck}$ | | | |
| 269 | 212 | 246 | 163 | 269 | 163 | 236 | 163 | 223 | 147 | 199 | $n_{2\,th}$ | | | |
| 70 | 128 | 104 | 85 | 70 | 152 | 133 | 220 | 164 | 288 | 201 | $M_2$ | 4.86 | 412 | 10.147 |
| 4.3 | 2.9 | 2.8 | 4.6 | 4.3 | 2.7 | 2.4 | 1.9 | 1.9 | 1.4 | 1.6 | c | | | |
| 347 | 192 | 399 | 148 | 355 | 148 | 318 | 148 | 318 | 133 | 318 | $n_{2\,Eck}$ | | | |
| 244 | 192 | 222 | 148 | 244 | 148 | 214 | 148 | 202 | 133 | 180 | $n_{2\,th}$ | | | |
| 79 | 144 | 118 | 97 | 79 | 171 | 150 | 248 | 185 | 324 | 227 | $M_2$ | 2.49 | 331 | 11.382 |
| 3.1 | 2.1 | 2.0 | 3.3 | 3.1 | 1.9 | 1.7 | 1.3 | 1.4 | 1.0 | 1.1 | c | | | |
| 310 | 171 | 356 | 132 | 316 | 132 | 283 | 132 | 283 | 119 | 283 | $n_{2\,Eck}$ | | | |
| 274 | 171 | 249 | 132 | 273 | 132 | 227 | 132 | 203 | 119 | 183 | $n_{2\,th}$ | | | |
| 87 | 159 | 130 | 107 | 87 | 189 | 166 | 274 | 205 | 359 | 251 | $M_2$ | 3.20 | 426 | 12.612 |
| 3.6 | 2.4 | 2.3 | 3.9 | 3.5 | 2.2 | 2.0 | 1.6 | 1.6 | 1.2 | 1.3 | c | | | |
| 280 | 155 | 321 | 119 | 286 | 119 | 256 | 119 | 256 | 107 | 256 | $n_{2\,Eck}$ | | | |
| 220 | 155 | 200 | 119 | 219 | 119 | 193 | 119 | 171 | 107 | 154 | $n_{2\,th}$ | | | |
| 102 | 186 | 152 | 125 | 102 | 221 | 194 | 321 | 240 | 421 | 294 | $M_2$ | 4.29 | 600 | 14.824 |
| 4.3 | 2.9 | 2.8 | 4.6 | 4.3 | 2.7 | 2.4 | 1.9 | 1.9 | 1.4 | 1.6 | c | | | |
| 238 | 132 | 273 | 101 | 243 | 101 | 218 | 101 | 218 | 91 | 218 | $n_{2\,Eck}$ | | | |
| 167 | 132 | 152 | 101 | 167 | 101 | 147 | 101 | 138 | 91 | 123 | $n_{2\,th}$ | | | |
| 115 | 211 | 172 | 141 | 115 | 250 | 219 | 362 | 271 | 475 | 332 | $M_2$ | 4.16 | 604 | 16.699 |
| 3.8 | 2.6 | 2.5 | 4.1 | 3.8 | 2.4 | 2.1 | 1.7 | 1.7 | 1.3 | 1.4 | c | | | |
| 211 | 117 | 243 | 90 | 216 | 90 | 193 | 90 | 193 | 81 | 193 | $n_{2\,Eck}$ | | | |
| 145 | 117 | 132 | 90 | 145 | 90 | 127 | 90 | 115 | 81 | 103 | $n_{2\,th}$ | | | |
| 124 | 226 | 184 | 152 | 124 | 268 | 235 | 388 | 290 | 507 | 355 | $M_2$ | 2.13 | 518 | 17.809 |
| 3.1 | 2.1 | 2.0 | 3.3 | 3.1 | 1.9 | 1.7 | 1.3 | 1.4 | 1.0 | 1.1 | c | | | |
| 198 | 110 | 227 | 84 | 202 | 84 | 181 | 84 | 181 | 76 | 181 | $n_{2\,Eck}$ | | | |
| 175 | 109 | 159 | 84 | 175 | 84 | 145 | 84 | 130 | 76 | 117 | $n_{2\,th}$ | | | |
| 141 | 257 | 210 | 173 | 141 | 305 | 268 | 442 | 330 | 578 | 404 | $M_2$ | 2.79 | 665 | 20.329 |
| 3.5 | 2.3 | 2.3 | 3.8 | 3.4 | 2.2 | 1.9 | 1.5 | 1.6 | 1.2 | 1.3 | c | | | |
| 173 | 96 | 199 | 74 | 177 | 74 | 159 | 74 | 159 | 66 | 159 | $n_{2\,Eck}$ | | | |
| 135 | 96 | 123 | 74 | 135 | 74 | 117 | 74 | 104 | 66 | 94 | $n_{2\,th}$ | | | |
| 160 | 291 | 237 | 196 | 160 | 345 | 303 | 499 | 373 | | 457 | $M_2$ | 2.73 | 606 | 22.902 |
| 2.8 | 1.9 | 1.8 | 3.0 | 2.8 | 1.7 | 1.5 | 1.2 | 1.3 | | 1.0 | c | | | |
| 154 | 85 | 177 | 66 | 157 | 66 | 141 | 66 | 141 | | 141 | $n_{2\,Eck}$ | | | |
| 115 | 85 | 101 | 66 | 115 | 66 | 92 | 66 | 83 | | 76 | $n_{2\,th}$ | | | |
| 182 | 331 | 270 | 223 | 182 | 392 | 344 | 567 | 424 | | 519 | $M_2$ | 1.94 | 679 | 26.017 |
| 2.8 | 1.9 | 1.8 | 3.0 | 2.7 | 1.7 | 1.5 | 1.2 | 1.2 | | 1.0 | c | | | |
| 136 | 75 | 156 | 58 | 138 | 58 | 124 | 58 | 124 | | 124 | $n_{2\,Eck}$ | | | |
| 117 | 75 | 103 | 58 | 117 | 58 | 94 | 58 | 84 | | 76 | $n_{2\,th}$ | | | |
| 199 | 362 | 295 | 244 | 200 | 430 | 377 | 621 | 464 | | | $M_2$ | 1.67 | 682 | 28.461 |
| 2.5 | 1.7 | 1.7 | 2.7 | 2.5 | 1.6 | 1.4 | 1.1 | 1.1 | | | c | | | |
| 124 | 69 | 142 | 53 | 127 | 53 | 113 | 53 | 113 | | | $n_{2\,Eck}$ | | | |
| 109 | 69 | 93 | 53 | 109 | 53 | 85 | 53 | 77 | | | $n_{2\,th}$ | | | |
| 226 | 410 | 334 | 277 | 226 | 486 | 426 | | | | | $M_2$ | 1.63 | 610 | 32.063 |
| 2.0 | 1.4 | 1.3 | 2.2 | 2.0 | 1.3 | 1.1 | | | | | c | | | |
| 110 | 61 | 126 | 47 | 112 | 47 | 101 | | | | | $n_{2\,Eck}$ | | | |
| 92 | 61 | 73 | 47 | 92 | 47 | 68 | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

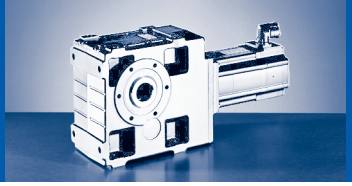
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 36.303 | 685 | 1.18 | $M_2$ | | | | | 103 | 127 | 152 | 185 | 145 | 341 | 273 |
| | | | c | | | | | 4.7 | 3.8 | 3.2 | 3.3 | 3.3 | 2.0 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | 103 | 112 | 112 | 54 | 112 | 41 | 83 |
| | | | $n_{2\,th}$ | | | | | 103 | 102 | 99 | 54 | 100 | 41 | 83 |
| 41.472 | 689 | 2.11 | $M_2$ | | | | | | | | 212 | 166 | 391 | 313 |
| | | | c | | | | | | | | 2.9 | 2.9 | 1.8 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | | | | | 47 | 98 | 36 | 72 |
| | | | $n_{2\,th}$ | | | | | | | | 47 | 64 | 36 | 54 |
| 44.471 | 689 | 0.90 | $M_2$ | | | | 92 | 126 | 156 | 186 | 228 | 178 | 420 | 335 |
| | | | c | | | | 5.8 | 4.4 | 3.5 | 3.0 | 3.0 | 3.1 | 1.6 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | 91 | 84 | 91 | 91 | 44 | 91 | 34 | 68 |
| | | | $n_{2\,th}$ | | | | 91 | 84 | 91 | 91 | 44 | 91 | 34 | 67 |
| 53.074 | 695 | 1.52 | $M_2$ | | | | 111 | 152 | 188 | 223 | 273 | 213 | 502 | 401 |
| | | | c | | | | 4.9 | 3.7 | 3.0 | 2.5 | 2.5 | 2.6 | 1.4 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | 76 | 71 | 76 | 76 | 37 | 76 | 28 | 57 |
| | | | $n_{2\,th}$ | | | | 64 | 61 | 58 | 56 | 37 | 57 | 28 | 46 |
| 57.882 | 695 | 0.58 | $M_2$ | | | | 122 | 166 | 205 | 244 | 298 | 233 | 548 | 438 |
| | | | c | | | | 4.5 | 3.4 | 2.7 | 2.3 | 2.3 | 2.4 | 1.3 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 70 | 65 | 70 | 70 | 34 | 70 | 26 | 52 |
| | | | $n_{2\,th}$ | | | | 70 | 65 | 70 | 70 | 34 | 70 | 26 | 52 |
| 65.207 | 624 | 0.57 | $M_2$ | | | 89 | 139 | 189 | 232 | 276 | 338 | 264 | 619 | 495 |
| | | | c | | | 5.5 | 3.6 | 2.7 | 2.2 | 1.8 | 1.8 | 1.9 | 1.0 | 1.1 |
| | | | $n_{2\,Eck}$ | | | 62 | 62 | 58 | 62 | 62 | 30 | 62 | 23 | 46 |
| | | | $n_{2\,th}$ | | | 62 | 62 | 58 | 62 | 62 | 30 | 62 | 23 | 46 |
| 72.000 | 666 | 0.42 | $M_2$ | | | 98 | | | | | | | | |
| | | | c | | | 5.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 56 | | | | | | | | |
| | | | $n_{2\,th}$ | | | 56 | | | | | | | | |
| 72.000 | 702 | 0.42 | $M_2$ | | | | 153 | 208 | 257 | 305 | 373 | 291 | 684 | 546 |
| | | | c | | | | 3.6 | 2.8 | 2.2 | 1.9 | 1.9 | 2.0 | 1.0 | 1.2 |
| | | | $n_{2\,Eck}$ | | | | 56 | 52 | 56 | 56 | 27 | 56 | 21 | 42 |
| | | | $n_{2\,th}$ | | | | 56 | 52 | 56 | 56 | 27 | 56 | 21 | 42 |
| 81.111 | 630 | 0.42 | $M_2$ | | 88 | 111 | 174 | 236 | 290 | 345 | 422 | 329 | | |
| | | | c | | 5.6 | 4.5 | 2.9 | 2.2 | 1.8 | 1.5 | 1.5 | 1.6 | | |
| | | | $n_{2\,Eck}$ | | 50 | 50 | 50 | 46 | 50 | 50 | 24 | 50 | | |
| | | | $n_{2\,th}$ | | 50 | 50 | 50 | 46 | 50 | 50 | 24 | 50 | | |
| 93.176 | 691 | 0.26 | $M_2$ | | 101 | 128 | | | | | | | | |
| | | | c | | 5.3 | 4.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 44 | 44 | | | | | | | | |
| | | | $n_{2\,th}$ | | 43 | 43 | | | | | | | | |
| 93.176 | 702 | 0.26 | $M_2$ | | | | 200 | 271 | 334 | 396 | | | | |
| | | | c | | | | 2.8 | 2.1 | 1.7 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | | | | 44 | 40 | 44 | 44 | | | | |
| | | | $n_{2\,th}$ | | | | 43 | 40 | 43 | 43 | | | | |
| 104.967 | 635 | 0.25 | $M_2$ | | 115 | 146 | 226 | 307 | 377 | 448 | | | | |
| | | | c | | 4.3 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | | 39 | 39 | 39 | 36 | 39 | 39 | | | | |
| | | | $n_{2\,th}$ | | 39 | 39 | 39 | 36 | 39 | 39 | | | | |
| 113.082 | 700 | 0.19 | $M_2$ | | 124 | 156 | | | | | | | | |
| | | | c | | 4.9 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 36 | 36 | | | | | | | | |
| | | | $n_{2\,th}$ | | 36 | 36 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS06-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 256 | 464 | 378 | 313 | 256 | 550 | 482 | | | | | $M_2$ | 1.18 | 685 | 36.303 |
| 2.0 | 1.4 | 1.3 | 2.2 | 2.0 | 1.2 | 1.1 | | | | | c | | | |
| 97 | 54 | 112 | 41 | 99 | 41 | 89 | | | | | $n_{2\,Eck}$ | | | |
| 91 | 54 | 74 | 41 | 91 | 41 | 69 | | | | | $n_{2\,th}$ | | | |
| 293 | 531 | 433 | 359 | 293 | 630 | | | | | | $M_2$ | 2.11 | 689 | 41.472 |
| 1.8 | 1.2 | 1.1 | 1.9 | 1.7 | 1.1 | | | | | | c | | | |
| 85 | 47 | 98 | 36 | 87 | 36 | | | | | | $n_{2\,Eck}$ | | | |
| 55 | 45 | 44 | 36 | 55 | 36 | | | | | | $n_{2\,th}$ | | | |
| 314 | 569 | 464 | 385 | 314 | 676 | 591 | | | | | $M_2$ | 0.90 | 689 | 44.471 |
| 1.9 | 1.2 | 1.2 | 1.8 | 1.9 | 1.0 | 1.0 | | | | | c | | | |
| 79 | 44 | 91 | 34 | 81 | 34 | 73 | | | | | $n_{2\,Eck}$ | | | |
| 79 | 44 | 68 | 34 | 81 | 34 | 63 | | | | | $n_{2\,th}$ | | | |
| 376 | 680 | 554 | 461 | 376 | | | | | | | $M_2$ | 1.52 | 695 | 53.074 |
| 1.6 | 1.0 | 1.0 | 1.5 | 1.6 | | | | | | | c | | | |
| 66 | 37 | 76 | 28 | 68 | | | | | | | $n_{2\,Eck}$ | | | |
| 47 | 37 | 38 | 28 | 47 | | | | | | | $n_{2\,th}$ | | | |
| 410 | | | | | | | | | | | $M_2$ | 0.58 | 695 | 57.882 |
| 1.4 | | | | | | | | | | | c | | | |
| 61 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 61 | | | | | | | | | | | $n_{2\,th}$ | | | |
| 464 | | | | | | | | | | | $M_2$ | 0.57 | 624 | 65.207 |
| 1.2 | | | | | | | | | | | c | | | |
| 54 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 54 | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.42 | 666 | 72.000 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 512 | | | | | | | | | | | $M_2$ | 0.42 | 702 | 72.000 |
| 1.2 | | | | | | | | | | | c | | | |
| 49 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 49 | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.42 | 630 | 81.111 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.26 | 691 | 93.176 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.26 | 702 | 93.176 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.25 | 635 | 104.967 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 0.19 | 700 | 113.082 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

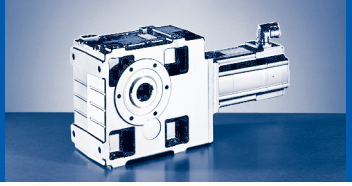
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 113.082 | 702 | 0.19 | $M_2$ | | | | 243 | 330 | 406 | 482 | | | | |
| | | | c | | | | 2.6 | 2.0 | 1.6 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | | | | 36 | 33 | 36 | 36 | | | | |
| | | | $n_{2\,th}$ | | | | 36 | 33 | 36 | 36 | | | | |
| 127.392 | 635 | 0.19 | $M_2$ | | 141 | 177 | 275 | 373 | 459 | 544 | | | | |
| | | | c | | 4.0 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | | 32 | 32 | 32 | 29 | 32 | 32 | | | | |
| | | | $n_{2\,th}$ | | 32 | 32 | 32 | 29 | 32 | 32 | | | | |
| 142.941 | 691 | 0.12 | $M_2$ | | 158 | 199 | | | | | | | | |
| | | | c | | 3.8 | 3.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 28 | 28 | | | | | | | | |
| | | | $n_{2\,th}$ | | 28 | 28 | | | | | | | | |
| 161.029 | 635 | 0.12 | $M_2$ | | 179 | 226 | | | | | | | | |
| | | | c | | 3.1 | 2.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 25 | 25 | | | | | | | | |
| | | | $n_{2\,th}$ | | 25 | 25 | | | | | | | | |
| 190.080 | 702 | 0.23 | $M_2$ | 103 | 212 | 267 | 413 | 559 | | | | | | |
| | | | c | 5.9 | 2.9 | 2.4 | 1.5 | 1.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 21 | 21 | 21 | 21 | 20 | | | | | | |
| | | | $n_{2\,th}$ | 21 | 21 | 21 | 21 | 20 | | | | | | |
| 214.133 | 635 | 0.23 | $M_2$ | 117 | 241 | 302 | 467 | | | | | | | |
| | | | c | 4.7 | 2.4 | 1.9 | 1.2 | | | | | | | |
| | | | $n_{2\,Eck}$ | 19 | 19 | 19 | 19 | | | | | | | |
| | | | $n_{2\,th}$ | 19 | 19 | 19 | 19 | | | | | | | |
| 230.688 | 702 | 0.17 | $M_2$ | 126 | 259 | 325 | 503 | | | | | | | |
| | | | c | 4.8 | 2.4 | 1.9 | 1.3 | | | | | | | |
| | | | $n_{2\,Eck}$ | 18 | 18 | 18 | 18 | | | | | | | |
| | | | $n_{2\,th}$ | 18 | 18 | 18 | 18 | | | | | | | |
| 259.880 | 635 | 0.17 | $M_2$ | 144 | 293 | 368 | 568 | | | | | | | |
| | | | c | 3.9 | 1.9 | 1.6 | 1.0 | | | | | | | |
| | | | $n_{2\,Eck}$ | 16 | 16 | 16 | 16 | | | | | | | |
| | | | $n_{2\,th}$ | 16 | 16 | 16 | 16 | | | | | | | |
| 291.600 | 702 | 0.11 | $M_2$ | 161 | 329 | 413 | | | | | | | | |
| | | | c | 3.8 | 1.9 | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 14 | 14 | 14 | | | | | | | | |
| | | | $n_{2\,th}$ | 14 | 14 | 14 | | | | | | | | |
| 328.500 | 635 | 0.11 | $M_2$ | 183 | 372 | 467 | | | | | | | | |
| | | | c | 3.1 | 1.5 | 1.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | 12 | 12 | | | | | | | | |
| | | | $n_{2\,th}$ | 12 | 12 | 12 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS06-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.19 | 702 | 113.082 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.19 | 635 | 127.392 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.12 | 691 | 142.941 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.12 | 635 | 161.029 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.23 | 702 | 190.080 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.23 | 635 | 214.133 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.17 | 702 | 230.688 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.17 | 635 | 259.880 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 702 | 291.600 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.11 | 635 | 328.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

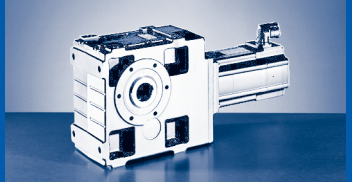
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 103.721 | 685 | 0.30 | $M_2$ | | 111 | 141 | 219 | 297 | 366 | 434 |
| | | | c | | 4.8 | 3.9 | 2.5 | 1.9 | 1.5 | 1.3 |
| | | | $n_{2\,Eck}$ | | 39 | 39 | 39 | 36 | 39 | 39 |
| | | | $n_{2\,th}$ | | 39 | 39 | 39 | 36 | 39 | 39 |
| 113.205 | 537 | 0.23 | $M_2$ | | 123 | 155 | 241 | 326 | 401 | 476 |
| | | | c | | 3.8 | 3.1 | 2.0 | 1.5 | 1.2 | 1.0 |
| | | | $n_{2\,Eck}$ | | 36 | 36 | 36 | 33 | 36 | 36 |
| | | | $n_{2\,th}$ | | 36 | 36 | 36 | 33 | 36 | 36 |
| 127.059 | 689 | 0.26 | $M_2$ | | 137 | 173 | 269 | 365 | 449 | 533 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 32 | 32 | 32 | 30 | 32 | 32 |
| | | | $n_{2\,th}$ | | 32 | 32 | 32 | 30 | 32 | 32 |
| 140.816 | 537 | 0.21 | $M_2$ | | 154 | 194 | 300 | 407 | | |
| | | | c | | 3.1 | 2.5 | 1.6 | 1.2 | | |
| | | | $n_{2\,Eck}$ | | 29 | 29 | 29 | 27 | | |
| | | | $n_{2\,th}$ | | 29 | 29 | 29 | 27 | | |
| 155.647 | 689 | 0.19 | $M_2$ | | 170 | 214 | 331 | 448 | 551 | |
| | | | c | | 3.6 | 2.9 | 1.9 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 26 | 26 | 26 | 24 | 26 | |
| | | | $n_{2\,th}$ | | 26 | 26 | 26 | 24 | 26 | |
| 174.336 | 537 | 0.11 | $M_2$ | 94 | 192 | 242 | | | | |
| | | | c | 5.0 | 2.5 | 2.0 | | | | |
| | | | $n_{2\,Eck}$ | 23 | 23 | 23 | | | | |
| | | | $n_{2\,th}$ | 23 | 23 | 23 | | | | |
| 202.588 | 695 | 0.17 | $M_2$ | 108 | 223 | 280 | 433 | 586 | | |
| | | | c | 5.5 | 2.8 | 2.2 | 1.5 | 1.1 | | |
| | | | $n_{2\,Eck}$ | 20 | 20 | 20 | 20 | 19 | | |
| | | | $n_{2\,th}$ | 20 | 20 | 20 | 20 | 19 | | |
| 224.524 | 537 | 0.07 | $M_2$ | 122 | 249 | 313 | | | | |
| | | | c | 3.9 | 1.9 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 18 | 18 | 18 | | | | |
| | | | $n_{2\,th}$ | 18 | 18 | 18 | | | | |
| 252.000 | 702 | 0.16 | $M_2$ | 136 | 279 | 350 | 540 | | | |
| | | | c | 4.5 | 2.3 | 1.8 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | 16 | 16 | 16 | 16 | | | |
| | | | $n_{2\,th}$ | 16 | 16 | 16 | 16 | | | |
| 279.286 | 537 | 0.07 | $M_2$ | 153 | 311 | 390 | | | | |
| | | | c | 3.1 | 1.6 | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 15 | 15 | 15 | | | | |
| | | | $n_{2\,th}$ | 15 | 15 | 15 | | | | |
| 316.800 | 702 | 0.10 | $M_2$ | 173 | 352 | 442 | | | | |
| | | | c | 3.6 | 1.8 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 13 | 13 | 13 | | | | |
| | | | $n_{2\,th}$ | 13 | 13 | 13 | | | | |
| 361.429 | 537 | 0.06 | $M_2$ | 199 | 404 | | | | | |
| | | | c | 2.4 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 11 | | | | | |
| | | | $n_{2\,th}$ | 11 | 11 | | | | | |
| 408.000 | 702 | 0.07 | $M_2$ | 224 | 455 | 571 | | | | |
| | | | c | 2.8 | 1.4 | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 10 | 10 | 10 | | | | |
| | | | $n_{2\,th}$ | 10 | 10 | 10 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| GKS06-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 640.800 | 702 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 356<br>1.8<br>6<br>6 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

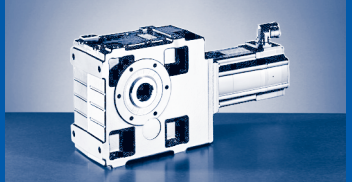
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 5.955 | 471 | 19.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 8.254 | 541 | 11.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.171 | 725 | 16.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 10.124 | 800 | 15.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.378 | 515 | 7.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 104<br>4.8<br>132<br>132 | 83<br>4.7<br>264<br>257 | 78<br>4.8<br>310<br>258 | 142<br>3.2<br>171<br>171 | 116<br>3.1<br>356<br>236 | |
| 11.378 | 613 | 7.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 12.711 | 832 | 10.16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 14.798 | 1040 | 14.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 16.674 | 1071 | 13.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 17.270 | 826 | 7.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 157<br>5.0<br>87<br>87 | 126<br>5.0<br>174<br>165 | 118<br>5.1<br>204<br>165 | 216<br>3.4<br>113<br>113 | 176<br>3.3<br>235<br>151 | |
| 17.270 | 998 | 7.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 20.511 | 1110 | 9.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 23.111 | 1168 | 8.91 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 192<br>5.8<br>65<br>65 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | 87 | 76 | 127 | 94 | 167 | 116 | 149 | 116 | 224 | 162 | 287 | 179 | $M_2$ | | | |
| | 5.2 | 4.6 | 3.6 | 3.8 | 2.8 | 3.1 | 3.1 | 3.1 | 2.1 | 2.3 | 1.6 | 2.1 | c | 19.30 | 471 | 5.955 |
| | 252 | 542 | 252 | 542 | 227 | 542 | 239 | 504 | 239 | 504 | 227 | 504 | $n_{2\,Eck}$ | | | |
| | 252 | 361 | 252 | 345 | 227 | 329 | 239 | 331 | 239 | 305 | 227 | 298 | $n_{2\,th}$ | | | |
| | 121 | 107 | 177 | 132 | 232 | 162 | 208 | 162 | 311 | 225 | 398 | 249 | $M_2$ | | | |
| | 4.3 | 3.8 | 3.0 | 3.1 | 2.3 | 2.5 | 2.6 | 2.6 | 1.7 | 1.9 | 1.4 | 1.7 | c | 11.80 | 541 | 8.254 |
| | 182 | 391 | 182 | 391 | 164 | 391 | 173 | 364 | 173 | 364 | 164 | 364 | $n_{2\,Eck}$ | | | |
| | 182 | 288 | 182 | 275 | 164 | 263 | 173 | 265 | 173 | 241 | 164 | 227 | $n_{2\,th}$ | | | |
| | 133 | 117 | 195 | 145 | 256 | 179 | 230 | 179 | 344 | 249 | 441 | 276 | $M_2$ | | | |
| | 5.2 | 4.6 | 3.6 | 3.8 | 2.8 | 3.1 | 3.1 | 3.1 | 2.1 | 2.3 | 1.6 | 2.1 | c | 16.00 | 725 | 9.171 |
| | 164 | 352 | 164 | 352 | 147 | 352 | 155 | 327 | 155 | 327 | 147 | 327 | $n_{2\,Eck}$ | | | |
| | 164 | 234 | 164 | 224 | 147 | 214 | 155 | 215 | 155 | 198 | 147 | 193 | $n_{2\,th}$ | | | |
| | 147 | 130 | 215 | 161 | 283 | 198 | 254 | 197 | 380 | 275 | 487 | 304 | $M_2$ | | | |
| | 5.2 | 4.6 | 3.6 | 3.8 | 2.8 | 3.1 | 3.1 | 3.1 | 2.1 | 2.3 | 1.6 | 2.1 | c | 15.88 | 800 | 10.124 |
| | 148 | 319 | 148 | 319 | 133 | 319 | 141 | 296 | 141 | 296 | 133 | 296 | $n_{2\,Eck}$ | | | |
| | 148 | 212 | 148 | 203 | 133 | 194 | 141 | 195 | 141 | 180 | 133 | 175 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 7.02 | 515 | 11.378 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 77 | 168 | 148 | 245 | 183 | 321 | 224 | 288 | 224 | 430 | 312 | 551 | 344 | $M_2$ | | | |
| 5.7 | 3.6 | 3.1 | 2.5 | 2.6 | 1.9 | 2.1 | 2.1 | 2.1 | 1.4 | 1.6 | 1.1 | 1.4 | c | 7.02 | 613 | 11.378 |
| 316 | 132 | 284 | 132 | 284 | 119 | 284 | 125 | 264 | 125 | 264 | 119 | 264 | $n_{2\,Eck}$ | | | |
| 266 | 132 | 237 | 132 | 226 | 119 | 216 | 125 | 194 | 125 | 186 | 119 | 177 | $n_{2\,th}$ | | | |
| | 186 | 164 | 272 | 203 | 357 | 249 | 321 | 249 | 479 | 347 | 613 | 383 | $M_2$ | | | |
| | 4.3 | 3.8 | 3.0 | 3.1 | 2.3 | 2.5 | 2.6 | 2.6 | 1.7 | 1.9 | 1.4 | 1.7 | c | 10.16 | 832 | 12.711 |
| | 118 | 254 | 118 | 254 | 106 | 254 | 112 | 236 | 112 | 236 | 106 | 236 | $n_{2\,Eck}$ | | | |
| | 118 | 187 | 118 | 179 | 106 | 171 | 112 | 172 | 112 | 157 | 106 | 148 | $n_{2\,th}$ | | | |
| | 216 | 190 | 316 | 236 | 415 | 290 | 373 | 290 | 557 | 403 | 713 | 446 | $M_2$ | | | |
| | 4.6 | 4.1 | 3.2 | 3.3 | 2.5 | 2.7 | 2.7 | 2.8 | 1.9 | 2.0 | 1.5 | 1.8 | c | 14.31 | 1040 | 14.798 |
| | 101 | 218 | 101 | 218 | 91 | 218 | 96 | 203 | 96 | 203 | 91 | 203 | $n_{2\,Eck}$ | | | |
| | 101 | 142 | 101 | 135 | 91 | 129 | 96 | 129 | 96 | 119 | 91 | 113 | $n_{2\,th}$ | | | |
| | 245 | 215 | 357 | 267 | 469 | 327 | 421 | 327 | 629 | 455 | 805 | 503 | $M_2$ | | | |
| | 4.2 | 3.7 | 2.9 | 3.1 | 2.3 | 2.5 | 2.5 | 2.6 | 1.7 | 1.9 | 1.3 | 1.7 | c | 13.97 | 1071 | 16.674 |
| | 90 | 193 | 90 | 193 | 81 | 193 | 86 | 180 | 86 | 180 | 81 | 180 | $n_{2\,Eck}$ | | | |
| | 90 | 123 | 90 | 117 | 81 | 112 | 85 | 112 | 85 | 101 | 81 | 95 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 7.26 | 826 | 17.270 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | 255 | 224 | 371 | 277 | 487 | 340 | 437 | 340 | 653 | 472 | 835 | 522 | $M_2$ | | | |
| | 3.8 | 3.4 | 2.7 | 2.7 | 2.0 | 2.3 | 2.3 | 2.3 | 1.5 | 1.7 | 1.2 | 1.5 | c | 7.26 | 998 | 17.270 |
| | 87 | 187 | 87 | 187 | 78 | 187 | 83 | 174 | 83 | 174 | 78 | 174 | $n_{2\,Eck}$ | | | |
| | 87 | 152 | 87 | 145 | 78 | 138 | 83 | 128 | 83 | 121 | 78 | 114 | $n_{2\,th}$ | | | |
| 139 | 303 | 267 | 441 | 330 | 579 | 404 | 520 | 404 | 776 | 562 | 992 | 621 | $M_2$ | | | |
| 5.7 | 3.6 | 3.2 | 2.5 | 2.6 | 1.9 | 2.1 | 2.1 | 2.2 | 1.4 | 1.6 | 1.1 | 1.4 | c | 9.08 | 1110 | 20.511 |
| 176 | 73 | 157 | 73 | 157 | 66 | 157 | 70 | 146 | 70 | 146 | 66 | 146 | $n_{2\,Eck}$ | | | |
| 126 | 73 | 111 | 73 | 106 | 66 | 101 | 69 | 102 | 69 | 87 | 66 | 82 | $n_{2\,th}$ | | | |
| 157 | 343 | 301 | 498 | 372 | 653 | 456 | 587 | 456 | 875 | 634 | 1119 | 700 | $M_2$ | | | |
| 5.3 | 3.3 | 3.0 | 2.3 | 2.4 | 1.8 | 2.0 | 2.0 | 2.0 | 1.3 | 1.5 | 1.0 | 1.3 | c | 8.91 | 1168 | 23.111 |
| 156 | 65 | 140 | 65 | 140 | 58 | 140 | 62 | 130 | 62 | 130 | 58 | 130 | $n_{2\,Eck}$ | | | |
| 110 | 65 | 97 | 65 | 93 | 58 | 88 | 62 | 89 | 62 | 74 | 58 | 70 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

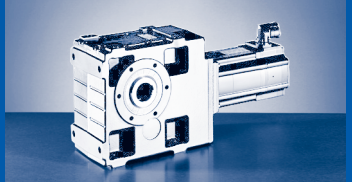
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 25.244 | 1177 | 6.72 | $M_2$ | | | | | | | 230 | 184 | 172 | 316 | 258 | 211 |
| | | | c | | | | | | | 4.9 | 4.9 | 4.9 | 3.3 | 3.2 | 5.3 |
| | | | $n_{2\,Eck}$ | | | | | | | 59 | 119 | 140 | 77 | 160 | 59 |
| | | | $n_{2\,th}$ | | | | | | | 59 | 112 | 112 | 77 | 103 | 59 |
| 28.274 | 1202 | 5.57 | $M_2$ | | | | | | | 259 | 207 | 194 | 355 | 289 | 237 |
| | | | c | | | | | | | 4.5 | 4.4 | 4.5 | 3.0 | 2.9 | 4.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 53 | 106 | 125 | 69 | 143 | 53 |
| | | | $n_{2\,th}$ | | | | | | | 53 | 102 | 102 | 69 | 94 | 53 |
| 31.858 | 1172 | 5.47 | $M_2$ | | | | | | | 293 | 235 | 220 | 402 | 328 | 269 |
| | | | c | | | | | | | 3.9 | 3.8 | 3.9 | 2.6 | 2.5 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | | | 47 | 94 | 111 | 61 | 127 | 47 |
| | | | $n_{2\,th}$ | | | | | | | 47 | 88 | 88 | 61 | 81 | 47 |
| 36.063 | 1068 | 3.65 | $M_2$ | | | 123 | 148 | | | | | | | | |
| | | | c | | | 5.9 | 5.0 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | 112 | 112 | | | | | | | | |
| | | | $n_{2\,th}$ | | | 99 | 96 | | | | | | | | |
| 36.063 | 1290 | 3.65 | $M_2$ | | | | | | | 333 | 266 | 249 | 455 | 371 | 305 |
| | | | c | | | | | | | 3.8 | 3.7 | 3.8 | 2.6 | 2.5 | 4.1 |
| | | | $n_{2\,Eck}$ | | | | | | | 42 | 83 | 98 | 54 | 112 | 42 |
| | | | $n_{2\,th}$ | | | | | | | 42 | 83 | 91 | 54 | 83 | 42 |
| 40.906 | 1290 | 6.93 | $M_2$ | | | | | | | | | | | | 348 |
| | | | c | | | | | | | | | | | | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 37 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 37 |
| 44.178 | 1300 | 2.78 | $M_2$ | | | | | 220 | 171 | 410 | 327 | 306 | 559 | 455 | 376 |
| | | | c | | | | | 5.6 | 5.9 | 3.1 | 3.5 | 3.5 | 2.3 | 2.3 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 44 | 92 | 34 | 68 | 80 | 44 | 92 | 34 |
| | | | $n_{2\,th}$ | | | | | 44 | 87 | 34 | 68 | 80 | 44 | 73 | 34 |
| 50.345 | 1300 | 5.30 | $M_2$ | | | | | 252 | 197 | 470 | 374 | 351 | 639 | 520 | 431 |
| | | | c | | | | | 4.9 | 5.2 | 2.7 | 3.1 | 3.1 | 2.0 | 2.0 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | 39 | 80 | 30 | 60 | 70 | 39 | 80 | 30 |
| | | | $n_{2\,th}$ | | | | | 39 | 57 | 30 | 51 | 51 | 39 | 46 | 30 |
| 57.501 | 1174 | 1.75 | $M_2$ | | 161 | 200 | 238 | | | | | | | | |
| | | | c | | 5.8 | 4.6 | 3.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 65 | 70 | 70 | | | | | | | | |
| | | | $n_{2\,th}$ | | 65 | 70 | 70 | | | | | | | | |
| 57.501 | 1310 | 1.75 | $M_2$ | | | | | 290 | 226 | 538 | 429 | 402 | 731 | 596 | 494 |
| | | | c | | | | | 4.4 | 4.6 | 2.4 | 2.7 | 2.7 | 1.8 | 1.8 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | | 34 | 70 | 26 | 52 | 61 | 34 | 70 | 26 |
| | | | $n_{2\,th}$ | | | | | 34 | 70 | 26 | 52 | 61 | 34 | 63 | 26 |
| 64.790 | 1195 | 1.73 | $M_2$ | | 182 | 226 | 270 | 329 | 257 | 609 | 486 | 456 | 827 | 674 | 560 |
| | | | c | | 5.2 | 4.2 | 3.5 | 3.5 | 3.7 | 1.9 | 2.2 | 2.2 | 1.4 | 1.4 | 2.1 |
| | | | $n_{2\,Eck}$ | | 58 | 63 | 63 | 30 | 63 | 23 | 46 | 54 | 30 | 63 | 23 |
| | | | $n_{2\,th}$ | | 58 | 63 | 63 | 30 | 63 | 23 | 46 | 54 | 30 | 50 | 23 |
| 70.474 | 1230 | 1.30 | $M_2$ | | 199 | 246 | 294 | | | | | | | | |
| | | | c | | 5.0 | 4.0 | 3.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 53 | 58 | 58 | | | | | | | | |
| | | | $n_{2\,th}$ | | 53 | 57 | 57 | | | | | | | | |
| 70.474 | 1320 | 1.30 | $M_2$ | | | | | 358 | 280 | 663 | 529 | 495 | 899 | 733 | 608 |
| | | | c | | | | | 3.6 | 3.7 | 2.0 | 2.2 | 2.3 | 1.5 | 1.5 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | | 28 | 58 | 21 | 43 | 50 | 28 | 58 | 21 |
| | | | $n_{2\,th}$ | | | | | 28 | 57 | 21 | 43 | 50 | 28 | 53 | 21 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 172 | 375 | 330 | 545 | 407 | 715 | 499 | 642 | 499 | 957 | 693 | | 766 | $M_2$ | 6.72 | 1177 | 25.244 |
| 4.9 | 3.1 | 2.7 | 2.1 | 2.2 | 1.6 | 1.8 | 1.8 | 1.9 | 1.2 | 1.3 | | 1.2 | c | | | |
| 143 | 59 | 128 | 59 | 128 | 54 | 128 | 57 | 119 | 57 | 119 | | 119 | $n_{2\,Eck}$ | | | |
| 112 | 59 | 99 | 59 | 94 | 53 | 87 | 56 | 88 | 56 | 73 | | 70 | $n_{2\,th}$ | | | |
| 194 | 422 | 370 | 612 | 457 | 802 | 560 | 720 | 560 | 1073 | 777 | | 858 | $M_2$ | 5.57 | 1202 | 28.274 |
| 4.5 | 2.8 | 2.5 | 2.0 | 2.0 | 1.5 | 1.7 | 1.7 | 1.7 | 1.1 | 1.2 | | 1.1 | c | | | |
| 127 | 53 | 114 | 53 | 114 | 48 | 114 | 50 | 106 | 50 | 106 | | 106 | $n_{2\,Eck}$ | | | |
| 102 | 53 | 90 | 53 | 86 | 48 | 78 | 50 | 78 | 50 | 66 | | 63 | $n_{2\,th}$ | | | |
| 220 | 477 | 419 | 691 | 516 | 905 | 633 | 813 | 632 | | 877 | | | $M_2$ | 5.47 | 1172 | 31.858 |
| 3.9 | 2.4 | 2.1 | 1.7 | 1.8 | 1.3 | 1.4 | 1.4 | 1.5 | | 1.1 | | | c | | | |
| 113 | 47 | 101 | 47 | 101 | 42 | 101 | 45 | 94 | | 94 | | | $n_{2\,Eck}$ | | | |
| 88 | 47 | 78 | 47 | 71 | 42 | 64 | 45 | 64 | | 55 | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 3.65 | 1068 | 36.063 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 249 | 540 | 474 | 783 | 585 | 1025 | 716 | | | | | | | $M_2$ | 3.65 | 1290 | 36.063 |
| 3.8 | 2.4 | 2.1 | 1.6 | 1.7 | 1.3 | 1.4 | | | | | | | c | | | |
| 100 | 42 | 89 | 42 | 89 | 37 | 89 | | | | | | | $n_{2\,Eck}$ | | | |
| 90 | 42 | 80 | 42 | 72 | 37 | 65 | | | | | | | $n_{2\,th}$ | | | |
| 284 | 615 | 539 | 889 | 665 | 1164 | 814 | 1047 | 814 | | | | | $M_2$ | 6.93 | 1290 | 40.906 |
| 3.3 | 2.1 | 1.8 | 1.4 | 1.5 | 1.1 | 1.2 | 1.2 | 1.3 | | | | | c | | | |
| 88 | 37 | 79 | 37 | 79 | 33 | 79 | 35 | 73 | | | | | $n_{2\,Eck}$ | | | |
| 56 | 37 | 48 | 37 | 43 | 33 | 38 | 35 | 39 | | | | | $n_{2\,th}$ | | | |
| 306 | 665 | 582 | 962 | 717 | 1258 | 878 | | | | | | | $M_2$ | 2.78 | 1300 | 44.178 |
| 3.5 | 1.9 | 2.0 | 1.4 | 1.6 | 1.0 | 1.3 | | | | | | | c | | | |
| 82 | 34 | 73 | 34 | 73 | 31 | 73 | | | | | | | $n_{2\,Eck}$ | | | |
| 79 | 34 | 71 | 34 | 63 | 31 | 58 | | | | | | | $n_{2\,th}$ | | | |
| 351 | 760 | 664 | 1098 | 819 | | 1003 | 1291 | 1002 | | | | | $M_2$ | 5.30 | 1300 | 50.345 |
| 3.1 | 1.7 | 1.7 | 1.2 | 1.4 | | 1.1 | 1.0 | 1.2 | | | | | c | | | |
| 72 | 30 | 64 | 30 | 64 | | 64 | 28 | 60 | | | | | $n_{2\,Eck}$ | | | |
| 51 | 30 | 42 | 30 | 37 | | 34 | 28 | 34 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.75 | 1174 | 57.501 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 402 | 869 | 761 | 1256 | 937 | | 1147 | | | | | | | $M_2$ | 1.75 | 1310 | 57.501 |
| 2.7 | 1.5 | 1.5 | 1.0 | 1.2 | | 1.0 | | | | | | | c | | | |
| 63 | 26 | 56 | 26 | 56 | | 56 | | | | | | | $n_{2\,Eck}$ | | | |
| 62 | 26 | 56 | 26 | 52 | | 48 | | | | | | | $n_{2\,th}$ | | | |
| 456 | 982 | 860 | | | | | | | | | | | $M_2$ | 1.73 | 1195 | 64.790 |
| 2.2 | 1.2 | 1.2 | | | | | | | | | | | c | | | |
| 56 | 23 | 50 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 55 | 23 | 46 | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.30 | 1230 | 70.474 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 496 | 1068 | 935 | | 1151 | | | | | | | | | $M_2$ | 1.30 | 1320 | 70.474 |
| 2.2 | 1.2 | 1.2 | | 1.0 | | | | | | | | | c | | | |
| 51 | 21 | 46 | | 46 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 51 | 21 | 46 | | 45 | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

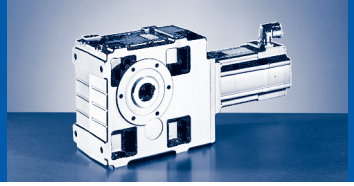
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 79.407 | 1205 | 1.28 | $M_2$ | 165 | 226 | 279 | 333 | 407 | 317 | 750 | 598 | 561 | 1016 | 828 | 689 |
| | | | c | 5.7 | 4.3 | 3.4 | 2.9 | 2.9 | 3.0 | 1.6 | 1.8 | 1.8 | 1.2 | 1.2 | 1.7 |
| | | | $n_{2\,Eck}$ | 51 | 47 | 51 | 51 | 25 | 51 | 19 | 38 | 44 | 25 | 51 | 19 |
| | | | $n_{2\,th}$ | 51 | 47 | 51 | 51 | 25 | 51 | 19 | 38 | 44 | 25 | 43 | 19 |
| 92.563 | 1264 | 0.81 | $M_2$ | 193 | 264 | 327 | 389 | | | | | | | | |
| | | | c | 5.1 | 3.9 | 3.1 | 2.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 44 | 41 | 44 | 44 | | | | | | | | |
| | | | $n_{2\,th}$ | 44 | 41 | 44 | 44 | | | | | | | | |
| 92.563 | 1330 | 0.81 | $M_2$ | | | | | 475 | 371 | 874 | 698 | 654 | 1185 | 966 | |
| | | | c | | | | | 2.8 | 2.9 | 1.5 | 1.7 | 1.7 | 1.1 | 1.1 | |
| | | | $n_{2\,Eck}$ | | | | | 21 | 44 | 16 | 32 | 38 | 21 | 44 | |
| | | | $n_{2\,th}$ | | | | | 21 | 44 | 16 | 32 | 38 | 21 | 44 | |
| 104.296 | 1215 | 0.80 | $M_2$ | 220 | 300 | 370 | 440 | 538 | 420 | 988 | 789 | 740 | | | |
| | | | c | 4.4 | 3.3 | 2.6 | 2.2 | 2.2 | 2.3 | 1.2 | 1.4 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 39 | 36 | 39 | 39 | 19 | 39 | 14 | 29 | 34 | | | |
| | | | $n_{2\,th}$ | 39 | 36 | 39 | 39 | 19 | 39 | 14 | 29 | 34 | | | |
| 112.338 | 1279 | 0.59 | $M_2$ | 236 | 322 | 398 | 473 | | | | | | | | |
| | | | c | 4.7 | 3.6 | 2.9 | 2.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 36 | 33 | 36 | 36 | | | | | | | | |
| | | | $n_{2\,th}$ | 36 | 33 | 36 | 36 | | | | | | | | |
| 112.338 | 1330 | 0.59 | $M_2$ | | | | | 579 | 451 | 1064 | 849 | 795 | | 1173 | |
| | | | c | | | | | 2.3 | 2.6 | 1.3 | 1.6 | 1.6 | | 1.0 | |
| | | | $n_{2\,Eck}$ | | | | | 17 | 36 | 13 | 27 | 31 | | 36 | |
| | | | $n_{2\,th}$ | | | | | 17 | 36 | 13 | 27 | 31 | | 36 | |
| 126.578 | 1215 | 0.59 | $M_2$ | 268 | 365 | 450 | 535 | 655 | 511 | 1202 | 959 | 899 | | | |
| | | | c | 4.0 | 3.0 | 2.4 | 2.0 | 1.8 | 2.1 | 1.0 | 1.3 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 32 | 30 | 32 | 32 | 15 | 32 | 12 | 24 | 28 | | | |
| | | | $n_{2\,th}$ | 32 | 30 | 32 | 32 | 15 | 32 | 12 | 24 | 28 | | | |
| 140.548 | 1330 | 1.11 | $M_2$ | 298 | 405 | 500 | 594 | 728 | 567 | | 1065 | 999 | | | 1227 |
| | | | c | 3.9 | 3.0 | 2.4 | 2.0 | 1.8 | 2.1 | | 1.3 | 1.3 | | | 1.1 |
| | | | $n_{2\,Eck}$ | 29 | 27 | 29 | 29 | 14 | 29 | | 21 | 25 | | | 11 |
| | | | $n_{2\,th}$ | 29 | 27 | 29 | 29 | 14 | 29 | | 21 | 25 | | | 11 |
| 158.364 | 1215 | 1.11 | $M_2$ | 338 | 459 | 566 | 672 | 823 | 642 | | 1203 | 1128 | | | |
| | | | c | 3.2 | 2.4 | 1.9 | 1.6 | 1.5 | 1.7 | | 1.0 | 1.0 | | | |
| | | | $n_{2\,Eck}$ | 26 | 24 | 26 | 26 | 12 | 26 | | 19 | 22 | | | |
| | | | $n_{2\,th}$ | 26 | 24 | 26 | 25 | 12 | 25 | | 19 | 20 | | | |
| 184.600 | 1330 | 0.69 | $M_2$ | 395 | 536 | 661 | 785 | 961 | 749 | | | | | | |
| | | | c | 3.0 | 2.3 | 1.8 | 1.5 | 1.4 | 1.6 | | | | | | |
| | | | $n_{2\,Eck}$ | 22 | 20 | 22 | 22 | 11 | 22 | | | | | | |
| | | | $n_{2\,th}$ | 22 | 20 | 22 | 22 | 11 | 22 | | | | | | |
| 208.000 | 1215 | 0.69 | $M_2$ | 448 | 607 | 747 | 887 | 1085 | 847 | | | | | | |
| | | | c | 2.4 | 1.8 | 1.5 | 1.2 | 1.1 | 1.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 20 | 18 | 20 | 20 | 9 | 20 | | | | | | |
| | | | $n_{2\,th}$ | 19 | 18 | 19 | 19 | 9 | 19 | | | | | | |
| 224.037 | 1330 | 0.51 | $M_2$ | 482 | 654 | 805 | 955 | 1169 | 912 | | | | | | |
| | | | c | 2.5 | 1.9 | 1.5 | 1.3 | 1.1 | 1.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 18 | 17 | 18 | 18 | 9 | 18 | | | | | | |
| | | | $n_{2\,th}$ | 18 | 17 | 18 | 18 | 9 | 18 | | | | | | |
| 252.436 | 1215 | 0.51 | $M_2$ | 546 | 739 | 909 | 1079 | | 1030 | | | | | | |
| | | | c | 2.0 | 1.5 | 1.2 | 1.0 | | 1.1 | | | | | | |
| | | | $n_{2\,Eck}$ | 16 | 15 | 16 | 16 | | 16 | | | | | | |
| | | | $n_{2\,th}$ | 16 | 15 | 16 | 16 | | 16 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 561 | | 1056 | | | | | | | | | | | $M_2$ | | | |
| 1.8 | | 1.0 | | | | | | | | | | | c | 1.28 | 1205 | 79.407 |
| 45 | | 41 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 45 | | 40 | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.81 | 1264 | 92.563 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.81 | 1330 | 92.563 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.80 | 1215 | 104.296 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.59 | 1279 | 112.338 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.59 | 1330 | 112.338 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.59 | 1215 | 126.578 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 999 | | | | | | | | | | | | | $M_2$ | | | |
| 1.3 | | | | | | | | | | | | | c | 1.11 | 1330 | 140.548 |
| 26 | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 25 | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1128 | | | | | | | | | | | | | $M_2$ | | | |
| 1.0 | | | | | | | | | | | | | c | 1.11 | 1215 | 158.364 |
| 23 | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 20 | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.69 | 1330 | 184.600 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.69 | 1215 | 208.000 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.51 | 1330 | 224.037 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 0.51 | 1215 | 252.436 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

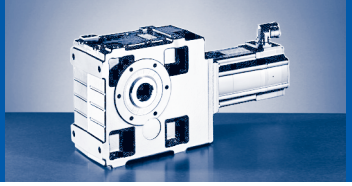
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 283.193 | 1330 | 0.33 | $M_2$ | 613 | 830 | 1020 | | | | | | | | | |
| | | | c | 2.0 | 1.5 | 1.2 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 14 | 13 | 14 | | | | | | | | | |
| | | | $n_{2\,th}$ | 14 | 13 | 14 | | | | | | | | | |
| 319.091 | 1215 | 0.33 | $M_2$ | 693 | 938 | | | | | | | | | | |
| | | | c | 1.6 | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 13 | 12 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 13 | 12 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS07-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 1330 | 283.193 |
| | | | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 1215 | 319.091 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

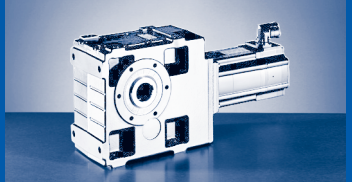
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 103.039 | 1290 | 0.84 | $M_2$ | | | | 212 | 290 | 358 | 426 | 521 | 407 | 959 | 765 | 717 |
| | | | c | | | | 4.8 | 3.6 | 2.9 | 2.4 | 2.4 | 2.5 | 1.3 | 1.5 | 1.5 |
| | | | $n_{2\,Eck}$ | | | | 39 | 36 | 39 | 39 | 19 | 39 | 15 | 29 | 34 |
| | | | $n_{2\,th}$ | | | | 39 | 36 | 39 | 39 | 19 | 39 | 15 | 29 | 34 |
| 112.391 | 1053 | 0.63 | $M_2$ | | | | 234 | 318 | 393 | 467 | 572 | 446 | 1049 | 837 | 785 |
| | | | c | | | | 4.0 | 3.0 | 2.4 | 2.0 | 1.8 | 2.1 | 1.0 | 1.3 | 1.3 |
| | | | $n_{2\,Eck}$ | | | | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 27 | 31 |
| | | | $n_{2\,th}$ | | | | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 27 | 31 |
| 126.222 | 1300 | 0.73 | $M_2$ | | | | 261 | 356 | 440 | 523 | 641 | 500 | 1177 | 939 | 880 |
| | | | c | | | | 4.3 | 3.3 | 2.6 | 2.2 | 2.0 | 2.3 | 1.1 | 1.4 | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 32 | 30 | 32 | 32 | 16 | 32 | 12 | 24 | 28 |
| | | | $n_{2\,th}$ | | | | 32 | 30 | 32 | 32 | 15 | 32 | 12 | 24 | 28 |
| 137.748 | 1053 | 0.57 | $M_2$ | | | 185 | 289 | 393 | 484 | 575 | 704 | 549 | | 1029 | 964 |
| | | | c | | | 4.9 | 3.2 | 2.5 | 2.0 | 1.7 | 1.5 | 1.7 | | 1.0 | 1.0 |
| | | | $n_{2\,Eck}$ | | | 29 | 29 | 27 | 29 | 29 | 14 | 29 | | 22 | 26 |
| | | | $n_{2\,th}$ | | | 29 | 29 | 27 | 29 | 29 | 14 | 29 | | 22 | 26 |
| 154.622 | 1300 | 0.53 | $M_2$ | | | 206 | 323 | 439 | 542 | 644 | 789 | 615 | | 1153 | 1081 |
| | | | c | | | 5.4 | 3.5 | 2.7 | 2.1 | 1.8 | 1.6 | 1.9 | | 1.1 | 1.1 |
| | | | $n_{2\,Eck}$ | | | 26 | 26 | 24 | 26 | 26 | 13 | 26 | | 19 | 23 |
| | | | $n_{2\,th}$ | | | 26 | 26 | 24 | 26 | 26 | 13 | 26 | | 19 | 23 |
| 179.201 | 1053 | 0.28 | $M_2$ | | 193 | 243 | 379 | 514 | 632 | 751 | | | | | |
| | | | c | | 4.8 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 | | | | | |
| | | | $n_{2\,Eck}$ | | 23 | 23 | 23 | 21 | 23 | 23 | | | | | |
| | | | $n_{2\,th}$ | | 23 | 23 | 23 | 21 | 23 | 23 | | | | | |
| 201.254 | 1310 | 0.45 | $M_2$ | | 215 | 272 | 424 | 576 | 709 | 842 | 1031 | 804 | | | |
| | | | c | | 5.3 | 4.2 | 2.7 | 2.1 | 1.7 | 1.4 | 1.3 | 1.5 | | | |
| | | | $n_{2\,Eck}$ | | 20 | 20 | 20 | 19 | 20 | 20 | 10 | 20 | | | |
| | | | $n_{2\,th}$ | | 20 | 20 | 20 | 19 | 20 | 20 | 10 | 20 | | | |
| 222.909 | 1053 | 0.20 | $M_2$ | | 242 | 305 | 474 | 642 | 789 | 936 | | | | | |
| | | | c | | 3.8 | 3.1 | 2.0 | 1.5 | 1.2 | 1.0 | | | | | |
| | | | $n_{2\,Eck}$ | | 18 | 18 | 18 | 17 | 18 | 18 | | | | | |
| | | | $n_{2\,th}$ | | 18 | 18 | 18 | 17 | 18 | 18 | | | | | |
| 246.659 | 1320 | 0.42 | $M_2$ | | 267 | 336 | 523 | 708 | 872 | 1035 | 1266 | 988 | | | |
| | | | c | | 4.3 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 | 1.0 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | | 16 | 16 | 16 | 15 | 16 | 16 | 8 | 16 | | | |
| | | | $n_{2\,th}$ | | 16 | 16 | 16 | 15 | 16 | 16 | 8 | 16 | | | |
| 273.199 | 1053 | 0.18 | $M_2$ | | 299 | 377 | 583 | 789 | | | | | | | |
| | | | c | | 3.1 | 2.5 | 1.6 | 1.2 | | | | | | | |
| | | | $n_{2\,Eck}$ | | 15 | 15 | 15 | 14 | | | | | | | |
| | | | $n_{2\,th}$ | | 15 | 15 | 15 | 14 | | | | | | | |
| 321.049 | 1320 | 0.26 | $M_2$ | | 351 | 442 | 684 | 926 | 1139 | | | | | | |
| | | | c | | 3.3 | 2.7 | 1.7 | 1.3 | 1.1 | | | | | | |
| | | | $n_{2\,Eck}$ | | 13 | 13 | 13 | 12 | 13 | | | | | | |
| | | | $n_{2\,th}$ | | 13 | 13 | 13 | 12 | 13 | | | | | | |
| 358.829 | 1053 | 0.17 | $M_2$ | 193 | 396 | 498 | 769 | | | | | | | | |
| | | | c | 4.7 | 2.4 | 1.9 | 1.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | 11 | 11 | 11 | | | | | | | | |
| | | | $n_{2\,th}$ | 11 | 11 | 11 | 11 | | | | | | | | |
| 399.353 | 1320 | 0.18 | $M_2$ | 213 | 439 | 553 | 854 | 1155 | | | | | | | |
| | | | c | 5.3 | 2.7 | 2.1 | 1.4 | 1.1 | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 10 | 10 | 10 | 9 | | | | | | | |
| | | | $n_{2\,th}$ | 10 | 10 | 10 | 10 | 9 | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| GKS07-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 464.367 | 1053 | 0.11 | $M_2$ | 253 | 516 | 647 | | | | | | | | | |
| | | | c | 3.7 | 1.8 | 1.5 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 9 | 9 | 9 | | | | | | | | | |
| | | | $n_{2\,th}$ | 9 | 9 | 9 | | | | | | | | | |
| 516.810 | 1320 | 0.11 | $M_2$ | 280 | 572 | 719 | | | | | | | | | |
| | | | c | 4.1 | 2.1 | 1.7 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 8 | 8 | 8 | | | | | | | | | |
| | | | $n_{2\,th}$ | 8 | 8 | 8 | | | | | | | | | |
| 563.572 | 1053 | 0.10 | $M_2$ | 309 | 628 | 788 | | | | | | | | | |
| | | | c | 3.0 | 1.5 | 1.2 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 7 | 7 | 7 | | | | | | | | | |
| | | | $n_{2\,th}$ | 7 | 7 | 7 | | | | | | | | | |
| 636.581 | 1330 | 0.16 | $M_2$ | 348 | 708 | 888 | | | | | | | | | |
| | | | c | 3.4 | 1.7 | 1.4 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | 6 | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | | | | | | | | | |
| 683.972 | 1053 | 0.07 | $M_2$ | 377 | 764 | | | | | | | | | | |
| | | | c | 2.5 | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | | | | | | | | | | |
| 823.810 | 1330 | 0.10 | $M_2$ | 454 | 920 | 1153 | | | | | | | | | |
| | | | c | 2.6 | 1.3 | 1.0 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | | | | | | | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | | | | | | | | | |
| 928.237 | 1215 | 0.10 | $M_2$ | 514 | 1039 | | | | | | | | | | |
| | | | c | 2.1 | 1.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | | | | | | | | | | |
| 999.806 | 1330 | 0.07 | $M_2$ | 553 | 1119 | | | | | | | | | | |
| | | | c | 2.2 | 1.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | | | | | | | | | | |
| 1126.542 | 1215 | 0.07 | $M_2$ | 626 | | | | | | | | | | | |
| | | | c | 1.7 | | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

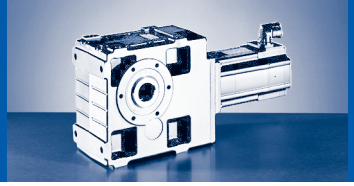
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 12.283 | 1615 | 34.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 13.360 | 1757 | 33.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 16.122 | 1506 | 22.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 16.122 | 1801 | 22.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 17.536 | 1638 | 22.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 17.536 | 1958 | 22.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 19.541 | 2570 | 30.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 22.022 | 2672 | 29.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 25.649 | 2396 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 25.649 | 2862 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 29.228 | 2500 | 15.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 423<br>5.6<br>51<br>51 |
| 29.228 | 2914 | 15.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 32.940 | 2818 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 476<br>5.6<br>46<br>46 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | 301 | 234 | 455 | 328 | 584 | 364 | $M_2$ | 34.20 | 1615 | 12.283 |
| | | | | | 5.1 | 5.2 | 3.5 | 3.8 | 2.7 | 3.4 | c | | | |
| | | | | | 116 | 244 | 116 | 244 | 110 | 244 | $n_{2\,Eck}$ | | | |
| | | | | | 116 | 166 | 116 | 155 | 110 | 152 | $n_{2\,th}$ | | | |
| | | | | | 328 | 255 | 494 | 357 | 636 | 396 | $M_2$ | 33.40 | 1757 | 13.360 |
| | | | | | 5.1 | 5.2 | 3.5 | 3.8 | 2.7 | 3.4 | c | | | |
| | | | | | 107 | 225 | 107 | 225 | 101 | 225 | $n_{2\,Eck}$ | | | |
| | | | | | 107 | 153 | 107 | 143 | 101 | 139 | $n_{2\,th}$ | | | |
| 204 | 340 | 254 | 448 | 313 | | | | | | | $M_2$ | 22.60 | 1506 | 16.122 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 200 | 93 | 200 | 84 | 200 | | | | | | | $n_{2\,Eck}$ | | | |
| 145 | 93 | 139 | 84 | 133 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 399 | 310 | 600 | 434 | 770 | 480 | $M_2$ | 22.60 | 1801 | 16.122 |
| | | | | | 4.4 | 4.4 | 2.9 | 3.2 | 2.3 | 2.9 | c | | | |
| | | | | | 88 | 186 | 88 | 186 | 84 | 186 | $n_{2\,Eck}$ | | | |
| | | | | | 88 | 137 | 88 | 130 | 84 | 127 | $n_{2\,th}$ | | | |
| 222 | 370 | 276 | 488 | 340 | | | | | | | $M_2$ | 22.20 | 1638 | 17.536 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 184 | 86 | 184 | 77 | 184 | | | | | | | $n_{2\,Eck}$ | | | |
| 133 | 86 | 128 | 77 | 122 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 434 | 337 | 653 | 472 | 838 | 522 | $M_2$ | 22.20 | 1958 | 17.536 |
| | | | | | 4.4 | 4.4 | 2.9 | 3.2 | 2.3 | 2.9 | c | | | |
| | | | | | 81 | 171 | 81 | 171 | 77 | 171 | $n_{2\,Eck}$ | | | |
| | | | | | 81 | 126 | 81 | 119 | 77 | 117 | $n_{2\,th}$ | | | |
| | | | | | 479 | 372 | 723 | 522 | 930 | 579 | $M_2$ | 30.60 | 2570 | 19.541 |
| | | | | | 5.1 | 5.2 | 3.5 | 3.8 | 2.7 | 3.4 | c | | | |
| | | | | | 73 | 154 | 73 | 154 | 69 | 154 | $n_{2\,Eck}$ | | | |
| | | | | | 73 | 105 | 73 | 97 | 69 | 95 | $n_{2\,th}$ | | | |
| | | | | | 543 | 422 | 817 | 591 | 1050 | 654 | $M_2$ | 29.90 | 2672 | 22.022 |
| | | | | | 4.7 | 4.8 | 3.2 | 3.5 | 2.5 | 3.2 | c | | | |
| | | | | | 65 | 136 | 65 | 136 | 61 | 136 | $n_{2\,Eck}$ | | | |
| | | | | | 65 | 91 | 65 | 85 | 61 | 83 | $n_{2\,th}$ | | | |
| 325 | 541 | 404 | 713 | 497 | | | | | | | $M_2$ | 20.50 | 2396 | 25.649 |
| 5.4 | 4.3 | 4.4 | 3.3 | 3.6 | | | | | | | c | | | |
| 126 | 59 | 126 | 53 | 126 | | | | | | | $n_{2\,Eck}$ | | | |
| 91 | 58 | 87 | 53 | 84 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 635 | 493 | 955 | 690 | 1225 | 764 | $M_2$ | 20.50 | 2862 | 25.649 |
| | | | | | 4.4 | 4.4 | 2.9 | 3.2 | 2.3 | 2.9 | c | | | |
| | | | | | 56 | 117 | 56 | 117 | 53 | 117 | $n_{2\,Eck}$ | | | |
| | | | | | 56 | 86 | 56 | 81 | 53 | 80 | $n_{2\,th}$ | | | |
| 372 | 619 | 462 | 815 | 569 | | | | | | | $M_2$ | 15.90 | 2500 | 29.228 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 110 | 51 | 110 | 46 | 110 | | | | | | | $n_{2\,Eck}$ | | | |
| 86 | 51 | 82 | 46 | 79 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 727 | 565 | 1092 | 789 | 1400 | 873 | $M_2$ | 15.90 | 2914 | 29.228 |
| | | | | | 3.9 | 4.0 | 2.6 | 2.9 | 2.1 | 2.6 | c | | | |
| | | | | | 49 | 103 | 49 | 103 | 46 | 103 | $n_{2\,Eck}$ | | | |
| | | | | | 49 | 76 | 49 | 76 | 46 | 75 | $n_{2\,th}$ | | | |
| 420 | 698 | 521 | 919 | 641 | | | | | | | $M_2$ | 15.60 | 2818 | 32.940 |
| 5.0 | 3.9 | 4.1 | 3.0 | 3.3 | | | | | | | c | | | |
| 98 | 46 | 98 | 41 | 98 | | | | | | | $n_{2\,Eck}$ | | | |
| 76 | 46 | 73 | 41 | 70 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

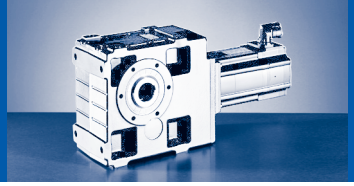
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 32.940 | 2984 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 35.193 | 1686 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 320<br>5.0<br>43<br>43 | 256<br>5.0<br>85<br>81 | 240<br>5.1<br>100<br>81 | 440<br>3.4<br>55<br>55 | 359<br>3.3<br>115<br>74 | | | |
| 35.193 | 2638 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 513<br>4.9<br>43<br>43 |
| 35.193 | 3029 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 39.662 | 1900 | 12.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 361<br>5.0<br>38<br>38 | 289<br>5.0<br>76<br>72 | 270<br>5.1<br>89<br>72 | 496<br>3.4<br>49<br>49 | 404<br>3.3<br>102<br>66 | | | |
| 39.662 | 2973 | 12.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 578<br>4.9<br>38<br>38 |
| 39.662 | 3002 | 12.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 43.146 | 2776 | 9.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 633<br>4.2<br>35<br>35 |
| 43.146 | 3024 | 9.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 48.625 | 3017 | 8.87 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 715<br>4.1<br>31<br>31 |
| 58.456 | 1882 | 5.54 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 541<br>3.4<br>26<br>26 | 431<br>3.8<br>51<br>51 | 404<br>3.9<br>60<br>60 | 738<br>2.5<br>33<br>33 | 601<br>2.5<br>69<br>56 | | | |
| 58.456 | 2940 | 5.54 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 485<br>5.8<br>26<br>26 | 395<br>6.0<br>62<br>61 | 867<br>3.3<br>26<br>26 |
| 65.879 | 2121 | 5.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 610<br>3.4<br>23<br>23 | 486<br>3.8<br>46<br>46 | 455<br>3.9<br>54<br>54 | 831<br>2.5<br>30<br>30 | 677<br>2.5<br>62<br>50 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | 822 | 639 | 1233 | 892 | 1581 | 987 | $M_2$ | 15.60 | 2984 | 32.940 |
| | | | | | 3.5 | 3.6 | 2.4 | 2.6 | 1.9 | 2.4 | c | | | |
| | | | | | 43 | 91 | 43 | 91 | 41 | 91 | $n_{2\,Eck}$ | | | |
| | | | | | 43 | 67 | 43 | 66 | 41 | 65 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 12.20 | 1686 | 35.193 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 451 | 749 | 560 | 986 | 688 | | | | | | | $M_2$ | 12.20 | 2638 | 35.193 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 92 | 43 | 92 | 38 | 92 | | | | | | | $n_{2\,Eck}$ | | | |
| 79 | 43 | 75 | 38 | 72 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 880 | 684 | 1319 | 954 | 1691 | 1056 | $M_2$ | 12.20 | 3029 | 35.193 |
| | | | | | 3.4 | 3.4 | 2.3 | 2.5 | 1.8 | 2.3 | c | | | |
| | | | | | 41 | 85 | 41 | 85 | 38 | 85 | $n_{2\,Eck}$ | | | |
| | | | | | 40 | 63 | 40 | 63 | 38 | 63 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 12.00 | 1900 | 39.662 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 509 | 844 | 631 | 1111 | 775 | | | | | | | $M_2$ | 12.00 | 2973 | 39.662 |
| 4.4 | 3.4 | 3.6 | 2.6 | 2.9 | | | | | | | c | | | |
| 81 | 38 | 81 | 34 | 81 | | | | | | | $n_{2\,Eck}$ | | | |
| 70 | 38 | 67 | 34 | 64 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 996 | 774 | 1491 | 1079 | 1910 | 1193 | $M_2$ | 12.00 | 3002 | 39.662 |
| | | | | | 3.0 | 3.0 | 2.0 | 2.2 | 1.6 | 2.0 | c | | | |
| | | | | | 36 | 76 | 36 | 76 | 34 | 76 | $n_{2\,Eck}$ | | | |
| | | | | | 36 | 56 | 36 | 56 | 34 | 56 | $n_{2\,th}$ | | | |
| 554 | 923 | 687 | 1213 | 844 | | | | | | | $M_2$ | 9.00 | 2776 | 43.146 |
| 4.3 | 3.0 | 3.5 | 2.3 | 2.8 | | | | | | | c | | | |
| 75 | 35 | 75 | 31 | 75 | | | | | | | $n_{2\,Eck}$ | | | |
| 69 | 35 | 66 | 31 | 64 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | 1086 | 841 | 1625 | 1172 | 2080 | 1297 | $M_2$ | 9.00 | 3024 | 43.146 |
| | | | | | 2.7 | 3.2 | 1.9 | 2.3 | 1.5 | 2.1 | c | | | |
| | | | | | 33 | 70 | 33 | 70 | 31 | 70 | $n_{2\,Eck}$ | | | |
| | | | | | 33 | 51 | 33 | 51 | 31 | 51 | $n_{2\,th}$ | | | |
| 625 | 1042 | 775 | 1368 | 952 | 1228 | 951 | 1835 | 1325 | 2349 | 1465 | $M_2$ | 8.87 | 3017 | 48.625 |
| 4.1 | 2.8 | 3.3 | 2.2 | 2.7 | 2.4 | 2.8 | 1.6 | 2.0 | 1.3 | 1.8 | c | | | |
| 66 | 31 | 66 | 28 | 66 | 29 | 62 | 29 | 62 | 28 | 62 | $n_{2\,Eck}$ | | | |
| 61 | 31 | 59 | 28 | 56 | 29 | 45 | 29 | 45 | 28 | 45 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 5.54 | 1882 | 58.456 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 758 | 1260 | 938 | 1652 | 1151 | | | | | | | $M_2$ | 5.54 | 2940 | 58.456 |
| 3.3 | 2.3 | 2.7 | 1.8 | 2.2 | | | | | | | c | | | |
| 55 | 26 | 55 | 23 | 55 | | | | | | | $n_{2\,Eck}$ | | | |
| 55 | 26 | 55 | 23 | 55 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 5.47 | 2121 | 65.879 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

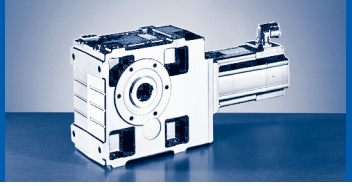
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 65.879 | 3048 | 5.47 | $M_2$ | | | | | | | | 550 | 447 | 980 |
| | | | c | | | | | | | | 5.3 | 5.5 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | | | | 23 | 55 | 23 |
| | | | $n_{2\,th}$ | | | | | | | | 23 | 55 | 23 |
| 70.982 | 1959 | 4.14 | $M_2$ | 354 | 276 | 661 | 526 | 493 | 899 | 733 | | | |
| | | | c | 5.3 | 5.5 | 2.9 | 3.3 | 3.3 | 2.2 | 2.2 | | | |
| | | | $n_{2\,Eck}$ | 28 | 57 | 21 | 42 | 50 | 28 | 57 | | | |
| | | | $n_{2\,th}$ | 27 | 57 | 21 | 42 | 50 | 27 | 53 | | | |
| 70.982 | 3031 | 4.14 | $M_2$ | | | | | | | | 595 | 484 | 1058 |
| | | | c | | | | | | | | 4.9 | 5.1 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 21 | 51 | 21 |
| | | | $n_{2\,th}$ | | | | | | | | 21 | 51 | 21 |
| 79.996 | 2207 | 4.10 | $M_2$ | 399 | 311 | 745 | 593 | 556 | 1013 | 826 | | | |
| | | | c | 5.3 | 5.5 | 2.9 | 3.3 | 3.3 | 2.2 | 2.2 | | | |
| | | | $n_{2\,Eck}$ | 24 | 51 | 19 | 38 | 44 | 24 | 51 | | | |
| | | | $n_{2\,th}$ | 24 | 51 | 19 | 38 | 44 | 24 | 47 | | | |
| 79.996 | 3071 | 4.10 | $M_2$ | | | | | | | | 674 | 548 | 1196 |
| | | | c | | | | | | | | 4.4 | 4.6 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | 19 | 45 | 19 |
| | | | $n_{2\,th}$ | | | | | | | | 19 | 45 | 19 |
| 91.860 | 2032 | 2.63 | $M_2$ | 464 | 362 | 860 | 686 | 643 | 1169 | 952 | | | |
| | | | c | 4.2 | 4.4 | 2.3 | 2.6 | 2.7 | 1.7 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 21 | 44 | 16 | 33 | 38 | 21 | 44 | | | |
| | | | $n_{2\,th}$ | 21 | 44 | 16 | 33 | 38 | 21 | 44 | | | |
| 91.860 | 3031 | 2.63 | $M_2$ | | | | | | | | 779 | 634 | 1379 |
| | | | c | | | | | | | | 3.8 | 3.9 | 2.2 |
| | | | $n_{2\,Eck}$ | | | | | | | | 16 | 39 | 16 |
| | | | $n_{2\,th}$ | | | | | | | | 16 | 39 | 16 |
| 103.524 | 2290 | 2.61 | $M_2$ | 522 | 408 | 970 | 773 | 725 | 1317 | 1073 | | | |
| | | | c | 4.2 | 4.4 | 2.3 | 2.6 | 2.7 | 1.7 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 19 | 39 | 15 | 29 | 34 | 19 | 39 | | | |
| | | | $n_{2\,th}$ | 19 | 39 | 14 | 29 | 34 | 19 | 39 | | | |
| 103.524 | 3080 | 2.61 | $M_2$ | | | | | | | | 882 | 718 | 1557 |
| | | | c | | | | | | | | 3.4 | 3.5 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | | | | 15 | 35 | 15 |
| | | | $n_{2\,th}$ | | | | | | | | 14 | 35 | 14 |
| 111.484 | 2058 | 1.92 | $M_2$ | 567 | 441 | 1048 | 834 | 782 | 1423 | 1158 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 18 | 36 | 14 | 27 | 32 | 18 | 36 | | | |
| | | | $n_{2\,th}$ | 17 | 36 | 13 | 27 | 32 | 17 | 36 | | | |
| 111.484 | 3031 | 1.92 | $M_2$ | | | | | | | | 953 | 773 | 1680 |
| | | | c | | | | | | | | 3.1 | 3.6 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | | | | | 14 | 32 | 14 |
| | | | $n_{2\,th}$ | | | | | | | | 13 | 32 | 13 |
| 125.641 | 2319 | 1.90 | $M_2$ | 639 | 496 | 1182 | 940 | 881 | 1604 | 1304 | | | |
| | | | c | 3.5 | 4.1 | 1.9 | 2.4 | 2.5 | 1.4 | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 16 | 32 | 12 | 24 | 28 | 16 | 32 | | | |
| | | | $n_{2\,th}$ | 16 | 32 | 12 | 24 | 28 | 16 | 32 | | | |
| 125.641 | 3080 | 1.90 | $M_2$ | | | | | | | | 1077 | 874 | 1897 |
| | | | c | | | | | | | | 2.8 | 3.2 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | 12 | 29 | 12 |
| | | | $n_{2\,th}$ | | | | | | | | 12 | 29 | 12 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 857 | 1422 | 1059 | 1865 | 1300 | | | | | | | $M_2$ | 5.47 | 3048 | 65.879 |
| 3.1 | 2.1 | 2.5 | 1.6 | 2.0 | | | | | | | c | | | |
| 49 | 23 | 49 | 21 | 49 | | | | | | | $n_{2\,Eck}$ | | | |
| 49 | 23 | 49 | 20 | 48 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.14 | 1959 | 70.982 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 926 | 1535 | 1144 | 2012 | 1403 | | | | | | | $M_2$ | 4.14 | 3031 | 70.982 |
| 2.8 | 2.0 | 2.3 | 1.5 | 1.9 | | | | | | | c | | | |
| 45 | 21 | 45 | 19 | 45 | | | | | | | $n_{2\,Eck}$ | | | |
| 45 | 21 | 45 | 19 | 45 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 4.10 | 2207 | 79.996 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1047 | 1734 | 1292 | 2271 | 1584 | | | | | | | $M_2$ | 4.10 | 3071 | 79.996 |
| 2.5 | 1.8 | 2.1 | 1.4 | 1.7 | | | | | | | c | | | |
| 40 | 19 | 40 | 17 | 40 | | | | | | | $n_{2\,Eck}$ | | | |
| 40 | 19 | 40 | 17 | 40 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.63 | 2032 | 91.860 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1206 | 1996 | 1488 | 2613 | 1824 | | | | | | | $M_2$ | 2.63 | 3031 | 91.860 |
| 2.2 | 1.5 | 1.8 | 1.2 | 1.5 | | | | | | | c | | | |
| 35 | 16 | 35 | 15 | 35 | | | | | | | $n_{2\,Eck}$ | | | |
| 35 | 16 | 35 | 15 | 35 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.61 | 2290 | 103.524 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1363 | 2253 | 1681 | 2949 | 2058 | | | | | | | $M_2$ | 2.61 | 3080 | 103.524 |
| 2.0 | 1.4 | 1.6 | 1.0 | 1.3 | | | | | | | c | | | |
| 31 | 15 | 31 | 13 | 31 | | | | | | | $n_{2\,Eck}$ | | | |
| 31 | 14 | 31 | 13 | 31 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.92 | 2058 | 111.484 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1467 | 2429 | 1809 | | 2216 | | | | | | | $M_2$ | 1.92 | 3031 | 111.484 |
| 2.0 | 1.2 | 1.6 | | 1.3 | | | | | | | c | | | |
| 29 | 14 | 29 | | 29 | | | | | | | $n_{2\,Eck}$ | | | |
| 29 | 13 | 29 | | 29 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.90 | 2319 | 125.641 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 1657 | 2741 | 2043 | | 2501 | | | | | | | $M_2$ | 1.90 | 3080 | 125.641 |
| 1.8 | 1.1 | 1.5 | | 1.2 | | | | | | | c | | | |
| 26 | 12 | 26 | | 26 | | | | | | | $n_{2\,Eck}$ | | | |
| 26 | 12 | 26 | | 26 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

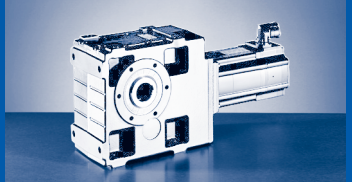
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 140.921 | 2084 | 1.26 | $M_2$ | 722 | 562 | 1331 | 1060 | 994 | 1804 | 1468 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 14 | 29 | 11 | 21 | 25 | 14 | 29 | | | |
| | | | $n_{2\,th}$ | 14 | 29 | 11 | 21 | 25 | 14 | 29 | | | |
| 158.816 | 2349 | 1.25 | $M_2$ | 814 | 633 | 1500 | 1195 | 1120 | 2033 | 1654 | | | |
| | | | c | 2.8 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 12 | 26 | 9 | 19 | 22 | 12 | 26 | | | |
| | | | $n_{2\,th}$ | 12 | 26 | 9 | 19 | 22 | 12 | 26 | | | |
| 182.000 | 3031 | 2.25 | $M_2$ | 929 | 722 | 1715 | 1366 | 1280 | 2326 | 1893 | 1575 | 1280 | 2763 |
| | | | c | 3.2 | 3.7 | 1.8 | 2.2 | 2.2 | 1.3 | 1.4 | 1.9 | 2.2 | 1.1 |
| | | | $n_{2\,Eck}$ | 11 | 22 | 8 | 17 | 19 | 11 | 22 | 8 | 20 | 8 |
| | | | $n_{2\,th}$ | 11 | 22 | 8 | 16 | 19 | 11 | 20 | 8 | 20 | 8 |
| 205.111 | 3080 | 2.24 | $M_2$ | 1050 | 817 | 1936 | 1543 | 1446 | 2625 | 2136 | 1779 | 1446 | |
| | | | c | 2.9 | 3.3 | 1.6 | 2.0 | 2.0 | 1.2 | 1.3 | 1.7 | 2.0 | |
| | | | $n_{2\,Eck}$ | 10 | 20 | 7 | 15 | 17 | 10 | 20 | 7 | 18 | |
| | | | $n_{2\,th}$ | 10 | 20 | 7 | 15 | 17 | 10 | 20 | 7 | 18 | |
| 220.882 | 3031 | 1.66 | $M_2$ | 1134 | 883 | 2088 | 1664 | 1560 | 2830 | 2303 | 1919 | 1560 | |
| | | | c | 2.6 | 3.0 | 1.5 | 1.8 | 1.8 | 1.1 | 1.2 | 1.6 | 1.8 | |
| | | | $n_{2\,Eck}$ | 9 | 18 | 7 | 14 | 16 | 9 | 18 | 7 | 16 | |
| | | | $n_{2\,th}$ | 9 | 18 | 7 | 14 | 16 | 9 | 18 | 7 | 16 | |
| 248.930 | 3080 | 1.65 | $M_2$ | 1282 | 998 | 2357 | 1879 | 1761 | | 2599 | 2166 | 1762 | |
| | | | c | 2.4 | 2.7 | 1.3 | 1.6 | 1.7 | | 1.1 | 1.4 | 1.6 | |
| | | | $n_{2\,Eck}$ | 8 | 16 | 6 | 12 | 14 | | 16 | 6 | 15 | |
| | | | $n_{2\,th}$ | 8 | 16 | 6 | 12 | 14 | | 16 | 6 | 14 | |
| 279.205 | 3031 | 1.10 | $M_2$ | 1442 | 1124 | 2648 | 2112 | 1980 | | | | | |
| | | | c | 2.1 | 2.4 | 1.1 | 1.4 | 1.4 | | | | | |
| | | | $n_{2\,Eck}$ | 7 | 15 | 5 | 11 | 13 | | | | | |
| | | | $n_{2\,th}$ | 7 | 15 | 5 | 11 | 13 | | | | | |
| 314.659 | 3080 | 1.10 | $M_2$ | 1629 | 1269 | 2988 | 2384 | 2234 | | | | | |
| | | | c | 1.9 | 2.2 | 1.0 | 1.3 | 1.3 | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 13 | 5 | 10 | 11 | | | | | |
| | | | $n_{2\,th}$ | 6 | 13 | 5 | 10 | 11 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS09-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.26 | 2084 | 140.921 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.25 | 2349 | 158.816 |
| 2415<br>1.2<br>18<br>18 | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.25 | 3031 | 182.000 |
| 2725<br>1.1<br>16<br>16 | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.24 | 3080 | 205.111 |
| 2937<br>1.0<br>15<br>15 | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.66 | 3031 | 220.882 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.65 | 3080 | 248.930 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.10 | 3031 | 279.205 |
| | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.10 | 3080 | 314.659 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

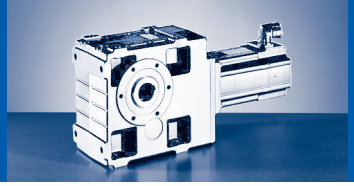
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 100.551 | 2358 | 2.48 | $M_2$ | | | | | | 340 | 406 | | | | |
| | | | c | | | | | | 5.4 | 4.6 | | | | |
| | | | $n_{2\,Eck}$ | | | | | | 40 | 40 | | | | |
| | | | $n_{2\,th}$ | | | | | | 40 | 40 | | | | |
| 100.551 | 3029 | 2.48 | $M_2$ | | | | | | | | 489 | | 916 | 730 |
| | | | c | | | | | | | | 5.9 | | 3.2 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | 19 | | 15 | 30 |
| | | | $n_{2\,th}$ | | | | | | | | 19 | | 15 | 30 |
| 113.320 | 2658 | 2.46 | $M_2$ | | | | | | 381 | 455 | | | | |
| | | | c | | | | | | 6.0 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | | | | | | 36 | 36 | | | | |
| | | | $n_{2\,th}$ | | | | | | 36 | 36 | | | | |
| 113.320 | 3002 | 2.46 | $M_2$ | | | | | | | | 556 | 431 | 1037 | 823 |
| | | | c | | | | | | | | 5.2 | 6.0 | 2.8 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | | | | 17 | 36 | 13 | 27 |
| | | | $n_{2\,th}$ | | | | | | | | 17 | 36 | 13 | 26 |
| 123.275 | 2891 | 2.11 | $M_2$ | | | | | | 414 | 495 | | | | |
| | | | c | | | | | | 6.0 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | | | | | | 33 | 33 | | | | |
| | | | $n_{2\,th}$ | | | | | | 33 | 33 | | | | |
| 123.275 | 3024 | 2.11 | $M_2$ | | | | | | | | 607 | 471 | 1131 | 898 |
| | | | c | | | | | | | | 4.8 | 5.5 | 2.6 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | | | | 16 | 33 | 12 | 24 |
| | | | $n_{2\,th}$ | | | | | | | | 16 | 33 | 12 | 24 |
| 138.929 | 3017 | 2.09 | $M_2$ | | | | | | 469 | 561 | 689 | 535 | 1279 | 1017 |
| | | | c | | | | | | 5.5 | 4.7 | 4.2 | 4.9 | 2.3 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | | | 29 | 29 | 14 | 29 | 11 | 22 |
| | | | $n_{2\,th}$ | | | | | | 29 | 29 | 14 | 29 | 11 | 22 |
| 151.012 | 3024 | 1.52 | $M_2$ | | | | | | 512 | 612 | 751 | 583 | 1393 | 1108 |
| | | | c | | | | | | 5.1 | 4.3 | 3.9 | 4.5 | 2.2 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | | 27 | 27 | 13 | 27 | 10 | 20 |
| | | | $n_{2\,th}$ | | | | | | 27 | 27 | 13 | 27 | 10 | 20 |
| 170.188 | 3017 | 1.51 | $M_2$ | | | | | 468 | 581 | 694 | 851 | 661 | 1574 | 1253 |
| | | | c | | | | | 5.7 | 4.5 | 3.8 | 3.5 | 4.0 | 1.9 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | | 22 | 24 | 24 | 12 | 24 | 9 | 18 |
| | | | $n_{2\,th}$ | | | | | 22 | 24 | 24 | 11 | 24 | 9 | 18 |
| 204.596 | 3031 | 1.24 | $M_2$ | | | | | 568 | 704 | 839 | 1029 | 801 | 1898 | 1512 |
| | | | c | | | | | 4.8 | 3.8 | 3.2 | 2.9 | 3.3 | 1.6 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | | 18 | 20 | 20 | 10 | 20 | 7 | 15 |
| | | | $n_{2\,th}$ | | | | | 18 | 20 | 20 | 10 | 20 | 7 | 15 |
| 230.577 | 3048 | 1.24 | $M_2$ | | | | 471 | 644 | 797 | 950 | 1164 | 906 | 2143 | 1708 |
| | | | c | | | | 5.6 | 4.2 | 3.4 | 2.9 | 2.6 | 3.0 | 1.4 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | 18 | 16 | 18 | 18 | 9 | 18 | 7 | 13 |
| | | | $n_{2\,th}$ | | | | 18 | 16 | 18 | 18 | 8 | 18 | 7 | 13 |
| 248.439 | 3031 | 1.13 | $M_2$ | | | | 510 | 697 | 862 | 1026 | 1257 | 979 | 2312 | 1843 |
| | | | c | | | | 5.1 | 3.9 | 3.1 | 2.6 | 2.4 | 2.8 | 1.3 | 1.6 |
| | | | $n_{2\,Eck}$ | | | | 16 | 15 | 16 | 16 | 8 | 16 | 6 | 12 |
| | | | $n_{2\,th}$ | | | | 16 | 15 | 16 | 16 | 8 | 16 | 6 | 12 |
| 279.986 | 3071 | 1.13 | $M_2$ | | | | 578 | 789 | 974 | 1159 | 1420 | 1106 | 2609 | 2081 |
| | | | c | | | | 4.6 | 3.5 | 2.8 | 2.4 | 2.1 | 2.5 | 1.2 | 1.5 |
| | | | $n_{2\,Eck}$ | | | | 15 | 13 | 15 | 15 | 7 | 15 | 5 | 11 |
| | | | $n_{2\,th}$ | | | | 14 | 13 | 14 | 14 | 7 | 14 | 5 | 11 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS09-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.48 | 2358 | 100.551 |
| 684<br>3.7<br>35<br>35 | 1249<br>2.4<br>19<br>19 | 1017<br>2.4<br>40<br>40 | 841<br>3.5<br>15<br>15 | 684<br>3.7<br>36<br>36 | 1486<br>2.0<br>15<br>15 | 1300<br>2.0<br>32<br>32 | 2150<br>1.4<br>15<br>15 | 1604<br>1.7<br>32<br>32 | 2814<br>1.1<br>13<br>13 | 1964<br>1.4<br>32<br>32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.48 | 3029 | 100.551 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.46 | 2658 | 113.320 |
| 772<br>3.6<br>31<br>31 | 1412<br>2.1<br>17<br>17 | 1147<br>2.3<br>36<br>36 | 952<br>3.1<br>13<br>13 | 772<br>3.6<br>32<br>32 | 1679<br>1.8<br>13<br>13 | 1466<br>2.0<br>29<br>28 | 2428<br>1.2<br>13<br>13 | 1808<br>1.6<br>29<br>28 | | 2214<br>1.3<br>29<br>28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.46 | 3002 | 113.320 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.11 | 2891 | 123.275 |
| 842<br>3.3<br>29<br>29 | 1538<br>2.0<br>16<br>16 | 1250<br>2.2<br>33<br>33 | 1038<br>2.9<br>12<br>12 | 842<br>3.3<br>29<br>29 | 1829<br>1.6<br>12<br>12 | 1597<br>1.8<br>26<br>26 | 2643<br>1.1<br>12<br>12 | 1969<br>1.5<br>26<br>26 | | 2411<br>1.2<br>26<br>26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.11 | 3024 | 123.275 |
| 953<br>2.9<br>25<br>25 | 1738<br>1.7<br>14<br>14 | 1413<br>1.9<br>29<br>29 | 1174<br>2.5<br>11<br>11 | 953<br>2.9<br>26<br>26 | 2065<br>1.5<br>11<br>11 | 1804<br>1.6<br>23<br>23 | 2983<br>1.0<br>11<br>11 | 2224<br>1.3<br>23<br>23 | | 2722<br>1.1<br>23<br>23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.09 | 3017 | 138.929 |
| 1038<br>2.7<br>23<br>23 | 1892<br>1.6<br>13<br>13 | 1538<br>1.8<br>27<br>27 | 1279<br>2.3<br>10<br>10 | 1038<br>2.7<br>24<br>24 | 2248<br>1.3<br>10<br>10 | 1964<br>1.5<br>21<br>21 | | 2420<br>1.2<br>21<br>21 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 3024 | 151.012 |
| 1174<br>2.4<br>21<br>21 | 2136<br>1.4<br>12<br>11 | 1737<br>1.6<br>24<br>24 | 1445<br>2.1<br>9<br>9 | 1174<br>2.4<br>21<br>21 | 2537<br>1.2<br>9<br>9 | 2217<br>1.3<br>19<br>19 | | 2731<br>1.1<br>19<br>19 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.51 | 3017 | 170.188 |
| 1417<br>2.0<br>17<br>17 | 2574<br>1.2<br>10<br>10 | 2095<br>1.3<br>20<br>20 | 1744<br>1.7<br>7<br>7 | 1418<br>2.0<br>18<br>18 | | 2671<br>1.1<br>16<br>16 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.24 | 3031 | 204.596 |
| 1601<br>1.8<br>15<br>15 | 2905<br>1.1<br>9<br>8 | 2364<br>1.2<br>18<br>18 | 1969<br>1.5<br>7<br>7 | 1601<br>1.8<br>16<br>16 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.24 | 3048 | 230.577 |
| 1728<br>1.7<br>14<br>14 | | 2550<br>1.1<br>16<br>16 | 2125<br>1.4<br>6<br>6 | 1728<br>1.6<br>15<br>14 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.13 | 3031 | 248.439 |
| 1951<br>1.5<br>13<br>13 | | | 2398<br>1.3<br>5<br>5 | 1951<br>1.5<br>13<br>13 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.13 | 3071 | 279.986 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

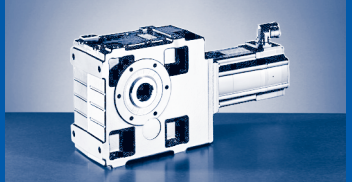
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 323.365 | 3031 | 0.71 | $M_2$ | | | | 673 | 916 | 1130 | 1344 | 1646 | 1283 | 3019 | 2409 |
| | | | c | | | | 4.0 | 3.0 | 2.4 | 2.0 | 1.8 | 2.1 | 1.0 | 1.3 |
| | | | $n_{2\,Eck}$ | | | | 13 | 12 | 13 | 13 | 6 | 13 | 5 | 9 |
| | | | $n_{2\,th}$ | | | | 13 | 12 | 13 | 13 | 6 | 13 | 5 | 9 |
| 364.427 | 3071 | 0.71 | $M_2$ | | | 486 | 761 | 1036 | 1277 | 1518 | 1859 | 1449 | | 2718 |
| | | | c | | | 5.4 | 3.6 | 2.7 | 2.2 | 1.8 | 1.6 | 1.9 | | 1.1 |
| | | | $n_{2\,Eck}$ | | | 11 | 11 | 10 | 11 | 11 | 5 | 11 | | 8 |
| | | | $n_{2\,th}$ | | | 11 | 11 | 10 | 11 | 11 | 5 | 11 | | 8 |
| 402.234 | 3031 | 0.51 | $M_2$ | | | 540 | 844 | 1147 | 1413 | 1679 | 2055 | 1603 | | 3004 |
| | | | c | | | 4.9 | 3.2 | 2.4 | 1.9 | 1.6 | 1.5 | 1.7 | | 1.0 |
| | | | $n_{2\,Eck}$ | | | 10 | 10 | 9 | 10 | 10 | 5 | 10 | | 8 |
| | | | $n_{2\,th}$ | | | 10 | 10 | 9 | 10 | 10 | 5 | 10 | | 7 |
| 453.311 | 3071 | 0.51 | $M_2$ | | 484 | 612 | 954 | 1296 | 1596 | 1895 | 2320 | 1810 | | |
| | | | c | | 5.5 | 4.4 | 2.9 | 2.2 | 1.7 | 1.5 | 1.3 | 1.5 | | |
| | | | $n_{2\,Eck}$ | | 9 | 9 | 9 | 8 | 9 | 9 | 4 | 9 | | |
| | | | $n_{2\,th}$ | | 9 | 9 | 9 | 8 | 9 | 9 | 4 | 9 | | |
| 520.538 | 3031 | 0.47 | $M_2$ | | 560 | 707 | 1100 | 1493 | 1837 | 2181 | 2669 | 2083 | | |
| | | | c | | 4.7 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 | 1.1 | 1.3 | | |
| | | | $n_{2\,Eck}$ | | 8 | 8 | 8 | 7 | 8 | 8 | 4 | 8 | | |
| | | | $n_{2\,th}$ | | 8 | 8 | 8 | 7 | 8 | 8 | 4 | 8 | | |
| 586.638 | 3080 | 0.47 | $M_2$ | | 634 | 801 | 1243 | 1686 | 2074 | 2461 | 3012 | 2351 | | |
| | | | c | | 4.2 | 3.4 | 2.2 | 1.7 | 1.3 | 1.1 | 1.0 | 1.2 | | |
| | | | $n_{2\,Eck}$ | | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | | |
| | | | $n_{2\,th}$ | | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | | |
| 631.744 | 3031 | 0.44 | $M_2$ | | 686 | 865 | 1342 | 1818 | 2236 | 2653 | | 2534 | | |
| | | | c | | 3.9 | 3.1 | 2.0 | 1.5 | 1.2 | 1.0 | | 1.1 | | |
| | | | $n_{2\,Eck}$ | | 6 | 6 | 6 | 6 | 6 | 6 | | 6 | | |
| | | | $n_{2\,th}$ | | 6 | 6 | 6 | 6 | 6 | 6 | | 6 | | |
| 711.965 | 3080 | 0.44 | $M_2$ | | 776 | 978 | 1516 | 2052 | 2523 | | | | | |
| | | | c | | 3.5 | 2.8 | 1.8 | 1.4 | 1.1 | | | | | |
| | | | $n_{2\,Eck}$ | | 6 | 6 | 6 | 5 | 6 | | | | | |
| | | | $n_{2\,th}$ | | 6 | 6 | 6 | 5 | 6 | | | | | |
| 817.551 | 3031 | 0.28 | $M_2$ | 434 | 896 | 1128 | 1745 | 2362 | | | | | | |
| | | | c | 6.0 | 3.0 | 2.4 | 1.6 | 1.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | 5 | 5 | | | | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | 5 | 5 | | | | | | |
| 921.367 | 3080 | 0.28 | $M_2$ | 492 | 1014 | 1274 | 1970 | 2665 | | | | | | |
| | | | c | 5.4 | 2.7 | 2.2 | 1.4 | 1.1 | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | 4 | 4 | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | 4 | 4 | | | | | | |
| 992.209 | 3031 | 0.20 | $M_2$ | 532 | 1094 | 1375 | 2124 | | | | | | | |
| | | | c | 4.9 | 2.5 | 2.0 | 1.3 | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | 4 | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | 4 | | | | | | | |
| 1118.204 | 3080 | 0.20 | $M_2$ | 603 | 1236 | 1553 | 2397 | | | | | | | |
| | | | c | 4.5 | 2.2 | 1.8 | 1.2 | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | 4 | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | 4 | | | | | | | |
| 1254.197 | 3031 | 0.13 | $M_2$ | 681 | 1391 | 1746 | | | | | | | | |
| | | | c | 3.9 | 2.0 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | 3 | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | 3 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS09-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 2258<br>1.3<br>11<br>11 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.71 | 3031 | 323.365 |
| 2548<br>1.1<br>10<br>10 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.71 | 3071 | 364.427 |
| 2816<br>1.0<br>9<br>9 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.51 | 3031 | 402.234 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.51 | 3071 | 453.311 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.47 | 3031 | 520.538 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.47 | 3080 | 586.638 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.44 | 3031 | 631.744 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.44 | 3080 | 711.965 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.28 | 3031 | 817.551 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.28 | 3080 | 921.367 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 3031 | 992.209 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 3080 | 1118.204 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 3031 | 1254.197 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

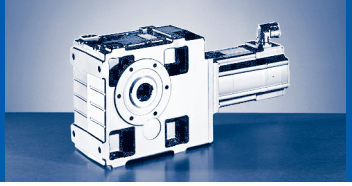
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-4S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 1413.461 | 3080 | 0.13 | $M_2$ | 770 | 1571 | 1971 | | | | | | | | |
| | | | c | 3.5 | 1.8 | 1.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | 3 | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | 3 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS09-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 3080 | 1413.461 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

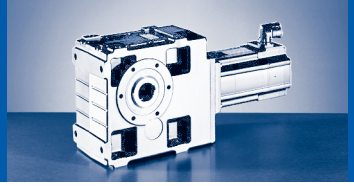
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6032$ Nm

| GKS11-3S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 12.094 | 2592 | 104.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 13.154 | 2819 | 101.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 15.874 | 2868 | 68.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 17.265 | 3119 | 66.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 19.515 | 4182 | 90.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 21.989 | 4712 | 90.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 25.615 | 4628 | 61.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 28.021 | 4791 | 52.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 31.573 | 5398 | 51.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 35.741 | 3314 | 36.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 453<br>5.4<br>90<br>65 | 754<br>4.2<br>42<br>42 | 563<br>4.4<br>90<br>63 | 994<br>3.3<br>38<br>38 |
| 35.741 | 5147 | 36.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 40.272 | 3734 | 36.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 511<br>5.4<br>80<br>58 | 850<br>4.2<br>37<br>37 | 634<br>4.4<br>80<br>56 | 1120<br>3.3<br>34<br>34 |
| 40.272 | 5799 | 36.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6032$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | 437 | | 565 | 350 | $M_2$ | 104.00 | 2592 | 12.094 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 118 | | 112 | 248 | $n_{2\,Eck}$ | | | |
| | | | 118 | | 112 | 144 | $n_{2\,th}$ | | | |
| | | | 475 | | 614 | 380 | $M_2$ | 101.00 | 2819 | 13.154 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 108 | | 103 | 228 | $n_{2\,Eck}$ | | | |
| | | | 108 | | 103 | 132 | $n_{2\,th}$ | | | |
| | | | 579 | 418 | 747 | 464 | $M_2$ | 68.00 | 2868 | 15.874 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 90 | 189 | 85 | 189 | $n_{2\,Eck}$ | | | |
| | | | 90 | 125 | 85 | 123 | $n_{2\,th}$ | | | |
| | | | 630 | 455 | 812 | 504 | $M_2$ | 66.50 | 3119 | 17.265 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 83 | 174 | 78 | 174 | $n_{2\,Eck}$ | | | |
| | | | 83 | 115 | 78 | 113 | $n_{2\,th}$ | | | |
| | | | 705 | | 911 | 564 | $M_2$ | 90.30 | 4182 | 19.515 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 73 | | 69 | 154 | $n_{2\,Eck}$ | | | |
| | | | 73 | | 69 | 89 | $n_{2\,th}$ | | | |
| | | | 795 | | 1027 | 636 | $M_2$ | 90.40 | 4712 | 21.989 |
| | | | 5.6 | | 4.4 | 5.6 | c | | | |
| | | | 65 | | 61 | 136 | $n_{2\,Eck}$ | | | |
| | | | 65 | | 61 | 79 | $n_{2\,th}$ | | | |
| | | | 935 | 674 | 1205 | 748 | $M_2$ | 61.20 | 4628 | 25.615 |
| | | | 4.8 | 5.2 | 3.7 | 4.7 | c | | | |
| | | | 56 | 117 | 53 | 117 | $n_{2\,Eck}$ | | | |
| | | | 56 | 78 | 53 | 76 | $n_{2\,th}$ | | | |
| | | | 1025 | 740 | 1321 | 821 | $M_2$ | 52.20 | 4791 | 28.021 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 51 | 107 | 48 | 107 | $n_{2\,Eck}$ | | | |
| | | | 51 | 72 | 48 | 71 | $n_{2\,th}$ | | | |
| | | | 1155 | 834 | 1489 | 925 | $M_2$ | 51.30 | 5398 | 31.573 |
| | | | 4.5 | 4.9 | 3.5 | 4.5 | c | | | |
| | | | 45 | 95 | 43 | 95 | $n_{2\,Eck}$ | | | |
| | | | 45 | 64 | 43 | 63 | $n_{2\,th}$ | | | |
| 693 | | | | | | | $M_2$ | 36.80 | 3314 | 35.741 |
| 3.6 | | | | | | | c | | | |
| 90 | | | | | | | $n_{2\,Eck}$ | | | |
| 60 | | | | | | | $n_{2\,th}$ | | | |
| | 872 | 677 | 1318 | 952 | 1695 | 1055 | $M_2$ | 36.80 | 5147 | 35.741 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 40 | 84 | 40 | 84 | 38 | 84 | $n_{2\,Eck}$ | | | |
| | 40 | 62 | 40 | 62 | 38 | 61 | $n_{2\,th}$ | | | |
| 781 | | | | | | | $M_2$ | 36.20 | 3734 | 40.272 |
| 3.6 | | | | | | | c | | | |
| 80 | | | | | | | $n_{2\,Eck}$ | | | |
| 53 | | | | | | | $n_{2\,th}$ | | | |
| | 983 | 763 | 1485 | 1073 | 1910 | 1189 | $M_2$ | 36.20 | 5799 | 40.272 |
| | 5.6 | 5.7 | 3.8 | 4.2 | 3.0 | 3.8 | c | | | |
| | 35 | 75 | 35 | 75 | 34 | 75 | $n_{2\,Eck}$ | | | |
| | 35 | 55 | 35 | 55 | 34 | 54 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

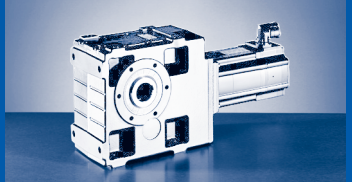
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6032$ Nm

| GKS11-3S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 43.783 | 5419 | 27.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 49.333 | 5923 | 27.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 57.683 | 3683 | 17.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 847<br>4.2<br>26<br>26 | 741<br>4.2<br>56<br>52 | 1235<br>2.9<br>26<br>26 | 918<br>3.4<br>56<br>50 | 1622<br>2.2<br>23<br>23 |
| 57.683 | 5726 | 17.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 64.995 | 4149 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 954<br>4.2<br>23<br>23 | 835<br>4.2<br>50<br>46 | 1391<br>2.9<br>23<br>23 | 1035<br>3.4<br>50<br>44 | 1828<br>2.2<br>21<br>21 |
| 64.995 | 5992 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 70.887 | 3776 | 13.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1049<br>3.5<br>21<br>21 | 918<br>3.5<br>46<br>45 | 1525<br>2.4<br>21<br>21 | 1135<br>2.9<br>46<br>45 | 2002<br>1.9<br>19<br>19 |
| 70.887 | 5867 | 13.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 79.873 | 4255 | 12.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1182<br>3.5<br>19<br>19 | 1034<br>3.5<br>40<br>40 | 1719<br>2.4<br>19<br>19 | 1279<br>2.9<br>40<br>40 | 2255<br>1.9<br>17<br>17 |
| 79.873 | 6032 | 12.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 91.737 | 3915 | 8.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 769<br>4.9<br>16<br>16 | 625<br>5.1<br>39<br>39 | 1368<br>2.8<br>16<br>16 | 1196<br>2.8<br>35<br>35 | 1984<br>2.0<br>16<br>16 | 1478<br>2.3<br>35<br>35 | 2600<br>1.5<br>15<br>15 |
| 103.365 | 4411 | 8.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 866<br>4.9<br>15<br>15 | 705<br>5.1<br>35<br>35 | 1541<br>2.8<br>15<br>15 | 1348<br>2.8<br>31<br>31 | 2236<br>2.0<br>15<br>15 | 1666<br>2.3<br>31<br>31 | 2930<br>1.5<br>13<br>13 |
| 111.335 | 3963 | 6.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 941<br>4.1<br>14<br>13 | 762<br>4.7<br>32<br>32 | 1668<br>2.3<br>14<br>13 | 1455<br>2.6<br>29<br>29 | 2416<br>1.6<br>14<br>13 | 1797<br>2.1<br>29<br>29 | 3164<br>1.3<br>12<br>12 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6032$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | 1078<br>4.8<br>33<br>33 | 831<br>5.6<br>69<br>50 | 1624<br>3.3<br>33<br>33 | 1167<br>4.1<br>69<br>50 | 2086<br>2.6<br>31<br>31 | 1293<br>3.7<br>69<br>50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.90 | 5419 | 43.783 |
| | 1216<br>4.7<br>29<br>29 | 938<br>5.4<br>61<br>45 | 1832<br>3.2<br>29<br>29 | 1317<br>3.9<br>61<br>45 | 2353<br>2.5<br>27<br>27 | 1459<br>3.6<br>61<br>45 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.50 | 5923 | 49.333 |
| 1129<br>2.8<br>56<br>48 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.70 | 3683 | 57.683 |
| | 1435<br>3.9<br>25<br>25 | 1108<br>4.5<br>52<br>38 | 2154<br>2.6<br>25<br>25 | 1551<br>3.3<br>52<br>38 | 2763<br>2.1<br>23<br>23 | 1717<br>3.0<br>52<br>38 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.70 | 5726 | 57.683 |
| 1272<br>2.8<br>50<br>42 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 4149 | 64.995 |
| | 1621<br>3.6<br>22<br>22 | 1253<br>4.2<br>46<br>34 | 2432<br>2.4<br>22<br>22 | 1752<br>3.0<br>46<br>34 | 3119<br>1.9<br>21<br>21 | 1939<br>2.7<br>46<br>34 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 5992 | 64.995 |
| 1394<br>2.4<br>46<br>44 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.00 | 3776 | 70.887 |
| | 1775<br>3.2<br>20<br>20 | 1373<br>3.7<br>42<br>31 | 2660<br>2.2<br>20<br>20 | 1918<br>2.7<br>42<br>31 | 3408<br>1.7<br>19<br>19 | 2122<br>2.5<br>42<br>31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.00 | 5867 | 70.887 |
| 1571<br>2.4<br>40<br>39 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.90 | 4255 | 79.873 |
| | 2007<br>3.0<br>18<br>18 | 1553<br>3.4<br>38<br>28 | 3003<br>2.0<br>18<br>18 | 2166<br>2.5<br>38<br>28 | 3847<br>1.6<br>17<br>17 | 2396<br>2.2<br>38<br>28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.90 | 6032 | 79.873 |
| 1813<br>1.9<br>35<br>35 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.30 | 3915 | 91.737 |
| 2043<br>1.9<br>31<br>31 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.21 | 4411 | 103.365 |
| 2203<br>1.7<br>29<br>29 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.05 | 3963 | 111.335 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

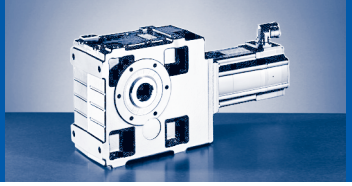
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6032$ Nm

| GKS11-3S | | | | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 |
| | | | $n_1$ | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 |
| | | | $I_{M\,400}$ | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 |
| | | | $P_N$ | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 |
| | | | $J_M$ | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 |
| 125.448 | 4465 | 5.99 | $M_2$ | 1061 | 859 | 1880 | 1640 | 2722 | 2025 | 3565 |
| | | | c | 4.1 | 4.7 | 2.3 | 2.6 | 1.6 | 2.1 | 1.3 |
| | | | $n_{2\,Eck}$ | 12 | 29 | 12 | 26 | 12 | 26 | 11 |
| | | | $n_{2\,th}$ | 12 | 29 | 12 | 26 | 12 | 26 | 11 |
| 140.732 | 4010 | 3.96 | $M_2$ | 1201 | 973 | 2119 | 1850 | 3065 | 2282 | 4010 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 11 | 26 | 11 | 23 | 11 | 23 | 10 |
| | | | $n_{2\,th}$ | 11 | 26 | 11 | 23 | 11 | 23 | 10 |
| 158.571 | 4519 | 3.93 | $M_2$ | 1353 | 1097 | 2388 | 2084 | 3453 | 2572 | 4519 |
| | | | c | 3.3 | 3.8 | 1.9 | 2.1 | 1.3 | 1.7 | 1.0 |
| | | | $n_{2\,Eck}$ | 10 | 23 | 10 | 20 | 10 | 20 | 9 |
| | | | $n_{2\,th}$ | 9 | 23 | 9 | 20 | 9 | 20 | 9 |
| 186.572 | 5975 | 7.07 | $M_2$ | 1585 | 1284 | 2802 | 2446 | 4056 | 3019 | 5310 |
| | | | c | 3.7 | 4.2 | 2.1 | 2.4 | 1.5 | 1.9 | 1.1 |
| | | | $n_{2\,Eck}$ | 8 | 19 | 8 | 17 | 8 | 17 | 7 |
| | | | $n_{2\,th}$ | 8 | 19 | 8 | 17 | 8 | 17 | 7 |
| 210.222 | 5892 | 7.05 | $M_2$ | 1794 | 1455 | 3167 | 2764 | 4579 | 3410 | |
| | | | c | 3.2 | 3.7 | 1.8 | 2.1 | 1.3 | 1.7 | |
| | | | $n_{2\,Eck}$ | 7 | 17 | 7 | 15 | 7 | 15 | |
| | | | $n_{2\,th}$ | 7 | 17 | 7 | 15 | 7 | 15 | |
| 226.431 | 5975 | 5.21 | $M_2$ | 1937 | 1571 | 3415 | 2981 | 4936 | 3677 | |
| | | | c | 3.0 | 3.5 | 1.7 | 1.9 | 1.2 | 1.6 | |
| | | | $n_{2\,Eck}$ | 7 | 16 | 7 | 14 | 7 | 14 | |
| | | | $n_{2\,th}$ | 7 | 16 | 7 | 14 | 7 | 14 | |
| 255.133 | 5892 | 5.20 | $M_2$ | 2191 | 1778 | 3856 | 3368 | 5571 | 4152 | |
| | | | c | 2.6 | 3.1 | 1.5 | 1.7 | 1.1 | 1.4 | |
| | | | $n_{2\,Eck}$ | 6 | 14 | 6 | 13 | 6 | 13 | |
| | | | $n_{2\,th}$ | 6 | 14 | 6 | 13 | 6 | 13 | |
| 286.219 | 5975 | 3.44 | $M_2$ | 2465 | 2001 | 4333 | 3785 | | 4664 | |
| | | | c | 2.4 | 2.8 | 1.4 | 1.5 | | 1.3 | |
| | | | $n_{2\,Eck}$ | 5 | 13 | 5 | 11 | | 11 | |
| | | | $n_{2\,th}$ | 5 | 13 | 5 | 11 | | 11 | |
| 322.500 | 5892 | 3.43 | $M_2$ | 2786 | 2263 | 4891 | 4273 | | 5264 | |
| | | | c | 2.1 | 2.4 | 1.2 | 1.3 | | 1.1 | |
| | | | $n_{2\,Eck}$ | 5 | 11 | 5 | 10 | | 10 | |
| | | | $n_{2\,th}$ | 5 | 11 | 5 | 10 | | 10 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6032$ Nm

| 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS11-3S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 2483<br>1.7<br>26<br>26 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.99 | 4465 | 125.448 |
| 2796<br>1.4<br>23<br>23 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.96 | 4010 | 140.732 |
| 3150<br>1.4<br>20<br>20 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.93 | 4519 | 158.571 |
| 3699<br>1.6<br>17<br>17 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.07 | 5975 | 186.572 |
| 4177<br>1.4<br>15<br>15 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.05 | 5892 | 210.222 |
| 4503<br>1.3<br>14<br>14 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.21 | 5975 | 226.431 |
| 5082<br>1.1<br>13<br>13 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.20 | 5892 | 255.133 |
| 5708<br>1.0<br>11<br>11 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.44 | 5975 | 286.219 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.43 | 5892 | 322.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

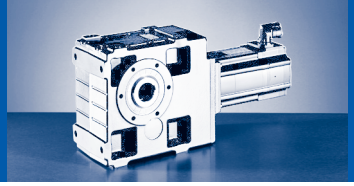
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-4S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 102.119 | 2972 | 7.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 408<br>5.7<br>40<br>40 | | | | | |
| 102.119 | 3825 | 7.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 923<br>4.0<br>15<br>15 | 734<br>4.5<br>29<br>29 | 688<br>4.6<br>35<br>35 |
| 102.119 | 5292 | 7.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 115.063 | 4309 | 7.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 1040<br>4.0<br>13<br>13 | 823<br>5.0<br>26<br>26 | 771<br>5.1<br>31<br>31 |
| 115.063 | 5869 | 7.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 125.095 | 4685 | 6.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 1130<br>4.0<br>12<br>12 | 894<br>5.0<br>24<br>24 | 838<br>5.1<br>28<br>28 |
| 125.095 | 5800 | 6.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 140.952 | 5279 | 6.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 1274<br>4.0<br>11<br>11 | 1008<br>5.0<br>21<br>21 | 944<br>5.1<br>25<br>25 |
| 140.952 | 5923 | 6.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 153.242 | 4931 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 1393<br>3.5<br>10<br>10 | 1104<br>4.3<br>20<br>20 | 1035<br>4.4<br>23<br>23 |
| 153.242 | 5800 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 172.667 | 5556 | 4.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 1570<br>3.5<br>9<br>9 | 1244<br>4.3<br>17<br>17 | 1166<br>4.4<br>20<br>20 |
| 172.667 | 5923 | 4.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS11-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.28 | 2972 | 102.119 |
| 1260<br>3.0<br>19<br>19 | 1027<br>3.0<br>40<br>40 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.28 | 3825 | 102.119 |
| | | | | 1485<br>3.5<br>15<br>15 | 1299<br>3.5<br>32<br>32 | 2160<br>2.4<br>15<br>15 | 1608<br>2.8<br>32<br>32 | 2834<br>1.9<br>13<br>13 | 1974<br>2.3<br>32<br>32 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.28 | 5292 | 102.119 |
| 1420<br>3.0<br>17<br>17 | 1153<br>3.3<br>35<br>35 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.21 | 4309 | 115.063 |
| | | 936<br>5.9<br>13<br>13 | | 1675<br>3.4<br>13<br>13 | 1459<br>3.8<br>28<br>28 | 2435<br>2.4<br>13<br>13 | 1806<br>3.1<br>28<br>28 | 3195<br>1.8<br>12<br>12 | 2219<br>2.5<br>28<br>28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.21 | 5869 | 115.063 |
| 1544<br>3.0<br>16<br>16 | 1253<br>3.3<br>32<br>32 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.23 | 4685 | 125.095 |
| | | 1024<br>5.4<br>12<br>12 | | 1827<br>3.1<br>12<br>12 | 1592<br>3.5<br>26<br>26 | 2653<br>2.2<br>12<br>12 | 1970<br>2.8<br>26<br>26 | 3480<br>1.7<br>11<br>11 | 2418<br>2.3<br>26<br>26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.23 | 5800 | 125.095 |
| 1739<br>3.0<br>14<br>14 | 1412<br>3.3<br>29<br>29 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.19 | 5279 | 140.952 |
| | | 1160<br>4.9<br>11<br>11 | 938<br>5.7<br>26<br>25 | 2065<br>2.8<br>11<br>11 | 1800<br>3.1<br>23<br>23 | 2996<br>2.0<br>11<br>11 | 2226<br>2.6<br>23<br>23 | 3927<br>1.5<br>10<br>10 | 2731<br>2.1<br>23<br>23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.19 | 5923 | 140.952 |
| 1900<br>2.6<br>13<br>13 | 1543<br>2.8<br>26<br>26 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 4931 | 153.242 |
| | | 1268<br>4.4<br>10<br>10 | 1026<br>5.1<br>24<br>23 | 2252<br>2.5<br>10<br>10 | 1964<br>2.8<br>21<br>21 | 3264<br>1.8<br>10<br>10 | 2427<br>2.3<br>21<br>21 | 4276<br>1.4<br>9<br>9 | 2976<br>1.9<br>21<br>21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 5800 | 153.242 |
| 2140<br>2.6<br>11<br>11 | 1739<br>2.8<br>24<br>23 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.47 | 5556 | 172.667 |
| | | 1436<br>4.0<br>9<br>9 | 1162<br>4.6<br>21<br>21 | 2544<br>2.3<br>9<br>9 | 2219<br>2.6<br>19<br>19 | 3684<br>1.6<br>9<br>9 | 2741<br>2.1<br>19<br>19 | 4825<br>1.2<br>8<br>8 | 3360<br>1.7<br>19<br>19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.47 | 5923 | 172.667 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

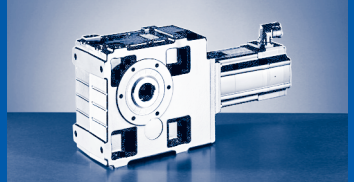
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-4S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 201.890 | 5972 | 3.74 | $M_2$ | | | | | 984 | | 1841 | 1460 | 1368 |
| | | | c | | | | | 5.8 | | 3.2 | 4.0 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | | 10 | | 7 | 15 | 18 |
| | | | $n_{2\,th}$ | | | | | 10 | | 7 | 15 | 17 |
| 227.481 | 5992 | 3.72 | $M_2$ | | | | | 1117 | 865 | 2083 | 1653 | 1549 |
| | | | c | | | | | 5.1 | 5.9 | 2.8 | 3.5 | 3.6 |
| | | | $n_{2\,Eck}$ | | | | | 9 | 18 | 7 | 13 | 16 |
| | | | $n_{2\,th}$ | | | | | 9 | 18 | 7 | 13 | 16 |
| 248.106 | 5973 | 3.36 | $M_2$ | | | | | 1224 | 949 | 2277 | 1809 | 1695 |
| | | | c | | | | | 4.7 | 5.4 | 2.6 | 3.2 | 3.3 |
| | | | $n_{2\,Eck}$ | | | | | 8 | 16 | 6 | 12 | 14 |
| | | | $n_{2\,th}$ | | | | | 8 | 16 | 6 | 12 | 14 |
| 279.556 | 6032 | 3.34 | $M_2$ | | | | | 1386 | 1076 | 2574 | 2046 | 1917 |
| | | | c | | | | | 4.2 | 4.9 | 2.3 | 2.9 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | | 7 | 15 | 5 | 11 | 13 |
| | | | $n_{2\,th}$ | | | | | 7 | 14 | 5 | 11 | 13 |
| 322.931 | 5973 | 2.09 | $M_2$ | | 885 | 1100 | 1314 | 1612 | 1253 | 2984 | 2374 | 2225 |
| | | | c | | 5.9 | 4.7 | 4.0 | 3.6 | 4.2 | 2.0 | 2.5 | 2.5 |
| | | | $n_{2\,Eck}$ | | 12 | 13 | 13 | 6 | 13 | 5 | 9 | 11 |
| | | | $n_{2\,th}$ | | 12 | 13 | 13 | 6 | 13 | 5 | 9 | 11 |
| 363.866 | 6032 | 2.08 | $M_2$ | | 1005 | 1246 | 1487 | 1824 | 1418 | 3369 | 2682 | 2514 |
| | | | c | | 5.3 | 4.2 | 3.6 | 3.2 | 3.7 | 1.8 | 2.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 10 | 11 | 11 | 5 | 11 | 4 | 8 | 10 |
| | | | $n_{2\,th}$ | | 10 | 11 | 11 | 5 | 11 | 4 | 8 | 10 |
| 395.787 | 5973 | 1.52 | $M_2$ | | 1098 | 1361 | 1623 | 1990 | 1548 | 3671 | 2924 | 2741 |
| | | | c | | 4.8 | 3.9 | 3.3 | 2.9 | 3.4 | 1.6 | 2.0 | 2.0 |
| | | | $n_{2\,Eck}$ | | 10 | 10 | 10 | 5 | 10 | 4 | 8 | 9 |
| | | | $n_{2\,th}$ | | 9 | 10 | 10 | 5 | 10 | 4 | 8 | 9 |
| 445.958 | 6032 | 1.52 | $M_2$ | 910 | 1245 | 1541 | 1835 | 2250 | 1751 | 4144 | 3302 | 3095 |
| | | | c | 5.7 | 4.3 | 3.5 | 2.9 | 2.6 | 3.1 | 1.5 | 1.8 | 1.8 |
| | | | $n_{2\,Eck}$ | 9 | 8 | 9 | 9 | 4 | 9 | 3 | 7 | 8 |
| | | | $n_{2\,th}$ | 9 | 8 | 9 | 9 | 4 | 9 | 3 | 7 | 8 |
| 512.196 | 5975 | 1.39 | $M_2$ | 1054 | 1439 | 1779 | 2117 | 2595 | 2021 | 4770 | 3803 | 3565 |
| | | | c | 4.9 | 3.7 | 3.0 | 2.5 | 2.3 | 2.6 | 1.3 | 1.6 | 1.6 |
| | | | $n_{2\,Eck}$ | 8 | 7 | 8 | 8 | 4 | 8 | 3 | 6 | 7 |
| | | | $n_{2\,th}$ | 8 | 7 | 8 | 8 | 4 | 8 | 3 | 6 | 7 |
| 577.122 | 6072 | 1.38 | $M_2$ | 1194 | 1628 | 2011 | 2392 | 2930 | 2283 | 5381 | 4292 | 4023 |
| | | | c | 4.4 | 3.4 | 2.7 | 2.3 | 2.1 | 2.4 | 1.1 | 1.4 | 1.4 |
| | | | $n_{2\,Eck}$ | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 5 | 6 |
| | | | $n_{2\,th}$ | 7 | 7 | 7 | 7 | 3 | 7 | 3 | 5 | 6 |
| 621.619 | 5975 | 1.31 | $M_2$ | 1291 | 1759 | 2171 | 2582 | 3162 | 2465 | 5802 | 4629 | 4339 |
| | | | c | 4.1 | 3.1 | 2.5 | 2.1 | 1.9 | 2.2 | 1.0 | 1.3 | 1.3 |
| | | | $n_{2\,Eck}$ | 7 | 6 | 7 | 7 | 3 | 7 | 2 | 5 | 6 |
| | | | $n_{2\,th}$ | 7 | 6 | 7 | 7 | 3 | 7 | 2 | 5 | 6 |
| 700.416 | 6072 | 1.31 | $M_2$ | 1461 | 1989 | 2453 | 2916 | 3570 | 2783 | | 5223 | 4896 |
| | | | c | 3.7 | 2.8 | 2.2 | 1.9 | 1.7 | 2.0 | | 1.2 | 1.2 |
| | | | $n_{2\,Eck}$ | 6 | 5 | 6 | 6 | 3 | 6 | | 4 | 5 |
| | | | $n_{2\,th}$ | 6 | 5 | 6 | 6 | 3 | 6 | | 4 | 5 |
| 816.455 | 5975 | 0.82 | $M_2$ | 1714 | 2329 | 2870 | 3409 | 4174 | 3255 | | | |
| | | | c | 3.1 | 2.4 | 1.9 | 1.6 | 1.4 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | 5 | 2 | 5 | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | 5 | 2 | 5 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS11-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 2508 | 2038 | 1689 | 1369 | 2984 | 2605 | 4318 | 3215 | 5652 | 3939 | $M_2$ | 3.74 | 5972 | 201.890 |
| 2.4 | 2.6 | 3.4 | 4.0 | 2.0 | 2.2 | 1.4 | 1.8 | 1.1 | 1.5 | c | | | |
| 10 | 20 | 7 | 18 | 7 | 16 | 7 | 16 | 7 | 16 | $n_{2\,Eck}$ | | | |
| 10 | 20 | 7 | 18 | 7 | 16 | 7 | 16 | 7 | 16 | $n_{2\,th}$ | | | |
| 2834 | 2303 | 1911 | 1550 | 3371 | 2943 | 4873 | 3630 | | 4446 | $M_2$ | 3.72 | 5992 | 227.481 |
| 2.1 | 2.3 | 3.1 | 3.5 | 1.8 | 2.0 | 1.2 | 1.6 | | 1.3 | c | | | |
| 9 | 18 | 7 | 16 | 7 | 14 | 7 | 14 | | 14 | $n_{2\,Eck}$ | | | |
| 9 | 18 | 7 | 16 | 7 | 14 | 7 | 14 | | 14 | $n_{2\,th}$ | | | |
| 3097 | 2518 | 2090 | 1696 | 3682 | 3216 | 5321 | 3965 | | 4855 | $M_2$ | 3.36 | 5973 | 248.106 |
| 1.9 | 2.1 | 2.8 | 3.2 | 1.6 | 1.8 | 1.1 | 1.5 | | 1.2 | c | | | |
| 8 | 16 | 6 | 15 | 6 | 13 | 6 | 13 | | 13 | $n_{2\,Eck}$ | | | |
| 8 | 16 | 6 | 14 | 6 | 13 | 6 | 13 | | 13 | $n_{2\,th}$ | | | |
| 3497 | 2844 | 2363 | 1918 | 4157 | 3630 | 6003 | 4475 | | 5477 | $M_2$ | 3.34 | 6032 | 279.556 |
| 1.7 | 1.9 | 2.5 | 2.9 | 1.4 | 1.6 | 1.0 | 1.3 | | 1.1 | c | | | |
| 7 | 15 | 5 | 13 | 5 | 12 | 5 | 12 | | 12 | $n_{2\,Eck}$ | | | |
| 7 | 14 | 5 | 13 | 5 | 12 | 5 | 12 | | 12 | $n_{2\,th}$ | | | |
| 4050 | 3294 | 2740 | 2225 | 4812 | 4204 | | 5179 | | | $M_2$ | 2.09 | 5973 | 322.931 |
| 1.5 | 1.6 | 2.2 | 2.5 | 1.2 | 1.4 | | 1.1 | | | c | | | |
| 6 | 13 | 5 | 11 | 5 | 10 | | 10 | | | $n_{2\,Eck}$ | | | |
| 6 | 13 | 5 | 11 | 5 | 10 | | 10 | | | $n_{2\,th}$ | | | |
| 4571 | 3719 | 3095 | 2515 | 5430 | 4744 | | 5843 | | | $M_2$ | 2.08 | 6032 | 363.866 |
| 1.3 | 1.5 | 1.9 | 2.2 | 1.1 | 1.2 | | 1.0 | | | c | | | |
| 5 | 11 | 4 | 10 | 4 | 9 | | 9 | | | $n_{2\,Eck}$ | | | |
| 5 | 11 | 4 | 10 | 4 | 9 | | 9 | | | $n_{2\,th}$ | | | |
| 4978 | 4051 | 3372 | 2741 | 5912 | 5167 | | | | | $M_2$ | 1.52 | 5973 | 395.787 |
| 1.2 | 1.3 | 1.8 | 2.0 | 1.0 | 1.1 | | | | | c | | | |
| 5 | 10 | 4 | 9 | 4 | 8 | | | | | $n_{2\,Eck}$ | | | |
| 5 | 10 | 4 | 9 | 4 | 8 | | | | | $n_{2\,th}$ | | | |
| 5617 | 4571 | 3807 | 3096 | | 5829 | | | | | $M_2$ | 1.52 | 6032 | 445.958 |
| 1.1 | 1.2 | 1.6 | 1.8 | | 1.0 | | | | | c | | | |
| 4 | 9 | 3 | 8 | | 7 | | | | | $n_{2\,Eck}$ | | | |
| 4 | 9 | 3 | 8 | | 7 | | | | | $n_{2\,th}$ | | | |
| | 5259 | 4383 | 3565 | | | | | | | $M_2$ | 1.39 | 5975 | 512.196 |
| | 1.0 | 1.4 | 1.6 | | | | | | | c | | | |
| | 8 | 3 | 7 | | | | | | | $n_{2\,Eck}$ | | | |
| | 8 | 3 | 7 | | | | | | | $n_{2\,th}$ | | | |
| | | 4946 | 4024 | | | | | | | $M_2$ | 1.38 | 6072 | 577.122 |
| | | 1.2 | 1.4 | | | | | | | c | | | |
| | | 3 | 6 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 3 | 6 | | | | | | | $n_{2\,th}$ | | | |
| | | 5333 | 4340 | | | | | | | $M_2$ | 1.31 | 5975 | 621.619 |
| | | 1.1 | 1.3 | | | | | | | c | | | |
| | | 2 | 6 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 2 | 6 | | | | | | | $n_{2\,th}$ | | | |
| | | 6016 | 4896 | | | | | | | $M_2$ | 1.31 | 6072 | 700.416 |
| | | 1.0 | 1.2 | | | | | | | c | | | |
| | | 2 | 5 | | | | | | | $n_{2\,Eck}$ | | | |
| | | 2 | 5 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.82 | 5975 | 816.455 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

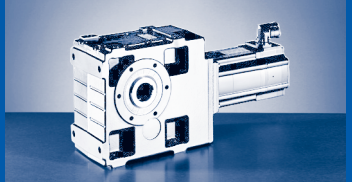
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-4S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 919.949 | 6072 | 0.82 | $M_2$ | 1938 | 2631 | 3240 | 3848 | 4710 | 3674 | | | |
| | | | c | 2.8 | 2.1 | 1.7 | 1.4 | 1.3 | 1.5 | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | 4 | 2 | 4 | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | 4 | 2 | 4 | | | |
| 990.879 | 5975 | 0.60 | $M_2$ | 2093 | 2839 | 3496 | 4150 | 5079 | 3963 | | | |
| | | | c | 2.5 | 1.9 | 1.5 | 1.3 | 1.2 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | 4 | 2 | 4 | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | 4 | 2 | 4 | | | |
| 1116.484 | 6072 | 0.60 | $M_2$ | 2365 | 3206 | 3945 | 4683 | 5730 | 4472 | | | |
| | | | c | 2.3 | 1.7 | 1.4 | 1.2 | 1.1 | 1.2 | | | |
| | | | $n_{2\,Eck}$ | 4 | 3 | 4 | 4 | 2 | 4 | | | |
| | | | $n_{2\,th}$ | 4 | 3 | 4 | 4 | 2 | 4 | | | |
| 1252.516 | 5975 | 0.39 | $M_2$ | 2661 | 3605 | 4434 | 5261 | | | | | |
| | | | c | 2.0 | 1.5 | 1.2 | 1.0 | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | 3 | 3 | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | 3 | 3 | | | | | |
| 1411.286 | 6072 | 0.39 | $M_2$ | 3004 | 4068 | 5002 | | | | | | |
| | | | c | 1.8 | 1.4 | 1.1 | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | 3 | | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | 3 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GKS11-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 6072 | 919.949 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 5975 | 990.879 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 6072 | 1116.484 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 5975 | 1252.516 |
| | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 6072 | 1411.286 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

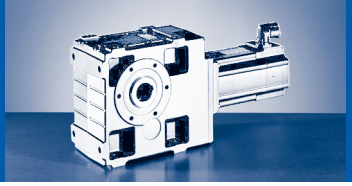
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11609$ Nm

| GKS14-3S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 16.646 | 3765 | 198.00 | $M_2$ | | | 599 | | 775 | 480 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 86 | | 81 | 180 |
| | | | $n_{2\,th}$ | | | 86 | | 81 | 103 |
| 18.311 | 3889 | 173.00 | $M_2$ | | | 662 | | 855 | 530 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 78 | | 74 | 164 |
| | | | $n_{2\,th}$ | | | 78 | | 74 | 95 |
| 24.696 | 5585 | 183.00 | $M_2$ | | | 889 | | 1150 | 712 |
| | | | c | | | 6.0 | | 4.7 | 5.9 |
| | | | $n_{2\,Eck}$ | | | 58 | | 55 | 122 |
| | | | $n_{2\,th}$ | | | 58 | | 55 | 69 |
| 27.165 | 5770 | 159.00 | $M_2$ | | | 982 | | 1269 | 786 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 53 | | 50 | 110 |
| | | | $n_{2\,th}$ | | | 52 | | 50 | 64 |
| 30.609 | 6501 | 156.00 | $M_2$ | | | 1107 | | 1430 | 886 |
| | | | c | | | 5.6 | | 4.4 | 5.6 |
| | | | $n_{2\,Eck}$ | | | 47 | | 44 | 98 |
| | | | $n_{2\,th}$ | | | 47 | | 44 | 57 |
| 34.692 | 6208 | 111.00 | $M_2$ | | | 1267 | 914 | 1633 | 1014 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 41 | 87 | 39 | 87 |
| | | | $n_{2\,th}$ | | | 41 | 57 | 39 | 56 |
| 39.089 | 6995 | 109.00 | $M_2$ | | | 1427 | 1030 | 1840 | 1142 |
| | | | c | | | 4.7 | 5.2 | 3.7 | 4.7 |
| | | | $n_{2\,Eck}$ | | | 37 | 77 | 35 | 77 |
| | | | $n_{2\,th}$ | | | 36 | 51 | 35 | 50 |
| 42.531 | 6541 | 82.40 | $M_2$ | 1033 | | 1564 | 1122 | 2013 | 1244 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 34 | | 34 | 71 | 32 | 71 |
| | | | $n_{2\,th}$ | 34 | | 34 | 52 | 32 | 51 |
| 47.923 | 7370 | 81.10 | $M_2$ | 1164 | | 1762 | 1264 | 2268 | 1402 |
| | | | c | 6.0 | | 4.1 | 5.0 | 3.2 | 4.6 |
| | | | $n_{2\,Eck}$ | 30 | | 30 | 63 | 28 | 63 |
| | | | $n_{2\,th}$ | 30 | | 30 | 46 | 28 | 45 |
| 56.251 | 6887 | 54.20 | $M_2$ | 1385 | 1068 | 2087 | 1500 | 2681 | 1662 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 25 | 53 | 25 | 53 | 24 | 53 |
| | | | $n_{2\,th}$ | 25 | 39 | 25 | 39 | 24 | 39 |
| 63.382 | 7760 | 53.50 | $M_2$ | 1561 | 1204 | 2352 | 1691 | 3021 | 1873 |
| | | | c | 4.8 | 5.5 | 3.2 | 4.0 | 2.5 | 3.6 |
| | | | $n_{2\,Eck}$ | 23 | 47 | 23 | 47 | 21 | 47 |
| | | | $n_{2\,th}$ | 22 | 35 | 22 | 35 | 21 | 35 |
| 68.942 | 7217 | 38.90 | $M_2$ | 1711 | 1321 | 2571 | 1851 | 3299 | 2049 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 21 | 44 | 21 | 44 | 20 | 44 |
| | | | $n_{2\,th}$ | 21 | 32 | 21 | 32 | 20 | 32 |
| 77.681 | 8131 | 38.40 | $M_2$ | 1928 | 1489 | 2897 | 2085 | 3717 | 2309 |
| | | | c | 4.1 | 4.7 | 2.8 | 3.4 | 2.2 | 3.1 |
| | | | $n_{2\,Eck}$ | 18 | 39 | 18 | 39 | 17 | 39 |
| | | | $n_{2\,th}$ | 18 | 28 | 18 | 28 | 17 | 28 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11609$ Nm

| GKS14-3S | | | | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 |
| | | | $n_1$ | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 |
| | | | $I_{M\,400}$ | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 |
| | | | $P_N$ | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 |
| | | | $J_M$ | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 |
| 90.551 | 7420 | 25.10 | $M_2$ | 2269 | 1755 | 3399 | 2450 | 4355 | 2711 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 16 | 33 | 16 | 33 | 15 | 33 |
| | | | $n_{2\,th}$ | 16 | 24 | 16 | 24 | 15 | 24 |
| 102.029 | 8361 | 24.90 | $M_2$ | 2556 | 1977 | 3829 | 2761 | 4907 | 3055 |
| | | | c | 3.2 | 3.7 | 2.2 | 2.7 | 1.7 | 2.4 |
| | | | $n_{2\,Eck}$ | 14 | 29 | 14 | 29 | 13 | 29 |
| | | | $n_{2\,th}$ | 14 | 22 | 14 | 22 | 13 | 22 |
| 109.896 | 7512 | 18.30 | $M_2$ | 2769 | 2144 | 4140 | 2988 | 5301 | 3304 |
| | | | c | 2.7 | 3.1 | 1.8 | 2.2 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 13 | 27 | 13 | 27 | 12 | 27 |
| | | | $n_{2\,th}$ | 13 | 20 | 13 | 20 | 12 | 20 |
| 123.826 | 8464 | 18.10 | $M_2$ | 3120 | 2407 | 4665 | 3358 | 5973 | 3714 |
| | | | c | 2.7 | 3.4 | 1.8 | 2.5 | 1.4 | 2.3 |
| | | | $n_{2\,Eck}$ | 12 | 24 | 12 | 24 | 11 | 24 |
| | | | $n_{2\,th}$ | 12 | 18 | 12 | 18 | 11 | 18 |
| 186.572 | 11609 | 21.60 | $M_2$ | 4713 | 3639 | 7041 | 5071 | 9011 | 5608 |
| | | | c | 2.4 | 3.1 | 1.6 | 2.3 | 1.3 | 2.1 |
| | | | $n_{2\,Eck}$ | 8 | 16 | 8 | 16 | 7 | 16 |
| | | | $n_{2\,th}$ | 8 | 12 | 8 | 12 | 7 | 12 |
| 210.222 | 11555 | 21.50 | $M_2$ | 5327 | 4116 | 7950 | 5730 | 10169 | 6335 |
| | | | c | 2.1 | 2.8 | 1.5 | 2.0 | 1.1 | 1.8 |
| | | | $n_{2\,Eck}$ | 7 | 14 | 7 | 14 | 6 | 14 |
| | | | $n_{2\,th}$ | 7 | 11 | 7 | 11 | 6 | 11 |
| 226.431 | 11609 | 15.90 | $M_2$ | 5746 | 4442 | 8571 | 6181 | 10962 | 6833 |
| | | | c | 2.0 | 2.6 | 1.4 | 1.9 | 1.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 6 | 13 | 6 | 13 | 6 | 13 |
| | | | $n_{2\,th}$ | 6 | 10 | 6 | 10 | 6 | 10 |
| 255.133 | 11555 | 15.80 | $M_2$ | 6490 | 5021 | 9674 | 6980 | | 7715 |
| | | | c | 1.8 | 2.3 | 1.2 | 1.6 | | 1.5 |
| | | | $n_{2\,Eck}$ | 6 | 12 | 6 | 12 | | 12 |
| | | | $n_{2\,th}$ | 6 | 9 | 6 | 9 | | 9 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

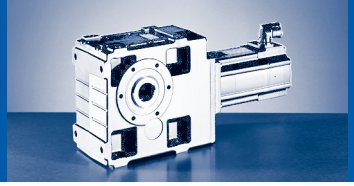
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11639$ Nm

| GKS14-4S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 97.467 | 4589 | 23.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 871<br>5.0<br>15<br>15 | 692<br>5.7<br>31<br>31 | 648<br>5.8<br>36<br>36 | 1193<br>3.7<br>20<br>20 | 972<br>3.7<br>42<br>36 | | | |
| 97.467 | 7182 | 23.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1395<br>4.9<br>15<br>15 |
| 97.467 | 10019 | 23.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 109.822 | 5170 | 23.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 981<br>5.0<br>14<br>14 | 779<br>5.7<br>27<br>27 | 730<br>5.8<br>32<br>32 | 1344<br>3.7<br>18<br>18 | 1095<br>3.7<br>37<br>32 | | | |
| 109.822 | 8093 | 23.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1572<br>4.9<br>14<br>14 |
| 109.822 | 10937 | 23.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 119.493 | 5626 | 19.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1067<br>5.0<br>13<br>13 | | | 1462<br>3.7<br>16<br>16 | 1186<br>4.2<br>34<br>30 | | | |
| 119.493 | 8805 | 19.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1710<br>4.9<br>13<br>13 |
| 119.493 | 10787 | 19.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 134.640 | 6339 | 19.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1203<br>5.0<br>11<br>11 | | | 1647<br>3.7<br>15<br>14 | 1336<br>4.2<br>30<br>26 | | | |
| 134.640 | 9921 | 19.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 1927<br>4.9<br>11<br>11 |
| 134.640 | 11261 | 19.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 158.039 | 7440 | 16.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1412<br>5.0<br>10<br>9 | | | 1934<br>3.7<br>12<br>12 | 1568<br>4.2<br>26<br>23 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11639$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS14-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.47 | 4589 | 97.467 |
| 1220<br>5.0<br>33<br>33 | 2039<br>3.4<br>15<br>15 | 1514<br>4.0<br>33<br>33 | 2682<br>2.6<br>14<br>14 | 1864<br>3.3<br>33<br>33 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.47 | 7182 | 97.467 |
| | | | | | 2377<br>4.1<br>15<br>15 | 1835<br>4.7<br>31<br>23 | 3572<br>2.7<br>15<br>15 | 2571<br>3.4<br>31<br>23 | 4584<br>2.2<br>14<br>14 | 2847<br>3.1<br>31<br>23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.47 | 10019 | 97.467 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.23 | 5170 | 109.822 |
| 1375<br>5.0<br>29<br>29 | 2297<br>3.4<br>14<br>14 | 1706<br>4.0<br>29<br>29 | 3023<br>2.6<br>12<br>12 | 2100<br>3.3<br>29<br>29 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.23 | 8093 | 109.822 |
| | | | | | 2681<br>4.0<br>13<br>13 | 2071<br>4.6<br>27<br>20 | 4028<br>2.7<br>13<br>13 | 2900<br>3.3<br>27<br>20 | 5169<br>2.1<br>12<br>12 | 3211<br>3.0<br>27<br>20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.23 | 10937 | 109.822 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.94 | 5626 | 119.493 |
| 1487<br>5.5<br>27<br>27 | 2499<br>3.4<br>13<br>13 | 1848<br>4.5<br>27<br>27 | 3289<br>2.6<br>11<br>11 | 2276<br>3.7<br>27<br>27 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.94 | 8805 | 119.493 |
| | | | | | 2930<br>3.6<br>12<br>12 | 2253<br>4.6<br>25<br>19 | 4396<br>2.4<br>12<br>12 | 3155<br>3.3<br>25<br>19 | 5636<br>1.9<br>11<br>11 | 3494<br>3.0<br>25<br>19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.94 | 10787 | 119.493 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.78 | 6339 | 134.640 |
| 1675<br>5.5<br>24<br>24 | 2816<br>3.4<br>11<br>11 | 2082<br>4.5<br>24<br>24 | 3706<br>2.6<br>10<br>10 | 2565<br>3.7<br>24<br>24 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.78 | 9921 | 134.640 |
| | | | | | 3310<br>3.3<br>11<br>11 | 2548<br>4.3<br>22<br>16 | 4962<br>2.2<br>11<br>11 | 3564<br>3.1<br>22<br>16 | 6360<br>1.8<br>10<br>10 | 3945<br>2.8<br>22<br>16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.78 | 11261 | 134.640 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.44 | 7440 | 158.039 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

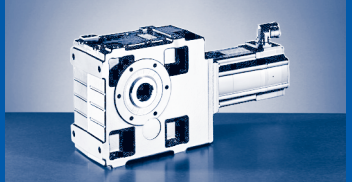
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11639$ Nm

| GKS14-4S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 158.039 | 11522 | 16.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 2263<br>4.9<br>10<br>9 |
| 178.072 | 8383 | 16.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 1591<br>5.0<br>8<br>8 | | | 2179<br>3.7<br>11<br>11 | 1767<br>4.2<br>23<br>20 | | | |
| 178.072 | 11477 | 16.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 2566<br>4.3<br>8<br>8 |
| 193.754 | 11522 | 12.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 2802<br>4.0<br>8<br>8 |
| 218.315 | 11477 | 12.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | 3174<br>3.5<br>7<br>7 |
| 237.467 | 11454 | 10.87 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 1939<br>5.6<br>6<br>6 | | 3463<br>3.2<br>6<br>6 |
| 267.568 | 11520 | 10.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 2200<br>5.0<br>6<br>6 | 1778<br>5.8<br>14<br>13 | 3917<br>2.9<br>6<br>6 |
| 321.729 | 10184 | 6.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 2927<br>3.4<br>5<br>5 | 2320<br>4.2<br>9<br>9 | 2174<br>4.3<br>11<br>11 | 3990<br>2.5<br>6<br>6 | 3241<br>2.8<br>13<br>13 | | | |
| 321.729 | 11454 | 6.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 2671<br>4.1<br>5<br>5 | 2162<br>4.8<br>11<br>11 | 4735<br>2.4<br>5<br>5 |
| 362.512 | 11475 | 6.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 3298<br>3.4<br>4<br>4 | 2614<br>4.2<br>8<br>8 | 2449<br>4.3<br>10<br>10 | 4496<br>2.5<br>5<br>5 | 3652<br>2.8<br>11<br>11 | | | |
| 362.512 | 11520 | 6.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 3024<br>3.7<br>4<br>4 | 2450<br>4.3<br>10<br>10 | 5350<br>2.1<br>4<br>4 |
| 390.671 | 10597 | 4.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1914<br>5.3<br>5<br>5 | | 3573<br>2.9<br>4<br>4 | 2836<br>3.6<br>8<br>8 | 2658<br>3.7<br>9<br>9 | 4864<br>2.2<br>5<br>5 | 3953<br>2.4<br>10<br>10 | | | |
| 390.671 | 11454 | 4.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 3269<br>3.4<br>4<br>4 | 2650<br>3.9<br>9<br>9 | 5776<br>2.0<br>4<br>4 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11639$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS14-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 1968 | 3307 | 2445 | 4351 | 3012 | 3903 | 3009 | 5842 | 4202 | 7483 | 4649 | $M_2$ | | | |
| 5.4 | 3.4 | 4.4 | 2.6 | 3.6 | 2.9 | 3.7 | 2.0 | 2.7 | 1.5 | 2.4 | c | 16.44 | 11522 | 158.039 |
| 20 | 10 | 20 | 9 | 20 | 9 | 19 | 9 | 19 | 9 | 19 | $n_{2\,Eck}$ | | | |
| 20 | 9 | 20 | 9 | 20 | 9 | 14 | 9 | 14 | 9 | 14 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 16.35 | 8383 | 178.072 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 2233 | 3742 | 2770 | 4919 | 3409 | 4414 | 3406 | 6599 | 4751 | 8448 | 5255 | $M_2$ | | | |
| 4.8 | 3.0 | 3.9 | 2.3 | 3.2 | 2.6 | 3.3 | 1.7 | 2.4 | 1.4 | 2.2 | c | 16.35 | 11477 | 178.072 |
| 18 | 8 | 18 | 8 | 18 | 8 | 17 | 8 | 17 | 8 | 17 | $n_{2\,Eck}$ | | | |
| 18 | 8 | 18 | 8 | 18 | 8 | 12 | 8 | 12 | 8 | 12 | $n_{2\,th}$ | | | |
| 2439 | 4082 | 3025 | 5362 | 3719 | 4814 | 3716 | 7191 | 5179 | 9202 | 5728 | $M_2$ | | | |
| 4.4 | 2.8 | 3.6 | 2.1 | 3.0 | 2.4 | 3.0 | 1.6 | 2.2 | 1.3 | 2.0 | c | 12.08 | 11522 | 193.754 |
| 17 | 8 | 17 | 7 | 17 | 7 | 16 | 7 | 16 | 7 | 16 | $n_{2\,Eck}$ | | | |
| 17 | 8 | 17 | 7 | 17 | 7 | 11 | 7 | 11 | 7 | 11 | $n_{2\,th}$ | | | |
| 2764 | 4616 | 3424 | 6058 | 4207 | 5440 | 4204 | 8118 | 5852 | 10384 | 6470 | $M_2$ | | | |
| 3.9 | 2.5 | 3.2 | 1.9 | 2.6 | 2.1 | 2.7 | 1.4 | 1.9 | 1.1 | 1.8 | c | 12.02 | 11477 | 218.315 |
| 15 | 7 | 15 | 6 | 15 | 7 | 14 | 7 | 14 | 6 | 14 | $n_{2\,Eck}$ | | | |
| 15 | 7 | 15 | 6 | 15 | 7 | 10 | 7 | 10 | 6 | 10 | $n_{2\,th}$ | | | |
| 3018 | 5032 | 3735 | 6600 | 4586 | 5928 | 4583 | 8841 | 6376 | 11306 | 7049 | $M_2$ | | | |
| 3.6 | 2.3 | 2.9 | 1.7 | 2.4 | 1.9 | 2.5 | 1.3 | 1.8 | 1.0 | 1.6 | c | 10.87 | 11454 | 237.467 |
| 14 | 6 | 14 | 6 | 14 | 6 | 13 | 6 | 13 | 6 | 13 | $n_{2\,Eck}$ | | | |
| 14 | 6 | 14 | 6 | 14 | 6 | 9 | 6 | 9 | 6 | 9 | $n_{2\,th}$ | | | |
| 3415 | 5684 | 4223 | 7452 | 5182 | 6694 | 5179 | 9977 | 7199 | | 7957 | $M_2$ | | | |
| 3.2 | 2.0 | 2.6 | 1.5 | 2.1 | 1.7 | 2.2 | 1.2 | 1.6 | | 1.4 | c | 10.83 | 11520 | 267.568 |
| 12 | 6 | 12 | 5 | 12 | 5 | 11 | 5 | 11 | | 11 | $n_{2\,Eck}$ | | | |
| 12 | 6 | 12 | 5 | 12 | 5 | 8 | 5 | 8 | | 8 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 6.42 | 10184 | 321.729 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 4131 | 6861 | 5103 | 8986 | 6256 | | | | | | | $M_2$ | | | |
| 2.7 | 1.7 | 2.2 | 1.3 | 1.8 | | | | | | | c | 6.42 | 11454 | 321.729 |
| 10 | 5 | 10 | 4 | 10 | | | | | | | $n_{2\,Eck}$ | | | |
| 10 | 5 | 10 | 4 | 10 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 6.40 | 11475 | 362.512 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 4669 | 7745 | 5764 | 10140 | 7064 | | | | | | | $M_2$ | | | |
| 2.4 | 1.5 | 1.9 | 1.1 | 1.6 | | | | | | | c | 6.40 | 11520 | 362.512 |
| 9 | 4 | 9 | 4 | 9 | | | | | | | $n_{2\,Eck}$ | | | |
| 9 | 4 | 9 | 4 | 9 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | c | 4.75 | 10597 | 390.671 |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 5042 | 8357 | 6222 | 10938 | 7623 | | | | | | | $M_2$ | | | |
| 2.2 | 1.4 | 1.8 | 1.1 | 1.5 | | | | | | | c | 4.75 | 11454 | 390.671 |
| 8 | 4 | 8 | 4 | 8 | | | | | | | $n_{2\,Eck}$ | | | |
| 8 | 4 | 8 | 3 | 8 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

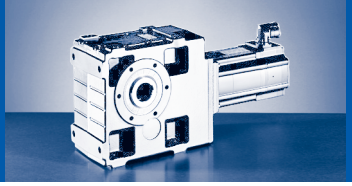
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11639$ Nm

| GKS14-4S | | | | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 |
| | | | $n_1$ | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 | 3600 | 1500 |
| | | | $I_{M\,230}$ | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | | | |
| | | | $I_{M\,400}$ | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 |
| | | | $P_N$ | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 |
| | | | $J_M$ | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 |
| 440.193 | 11520 | 4.73 | $M_2$ | 2161 | 1675 | 4031 | 3200 | 2999 | 5485 | 4458 | 3698 | 3000 | 6523 |
| | | | c | 5.1 | 5.9 | 2.8 | 3.5 | 3.5 | 2.1 | 2.3 | 3.1 | 3.5 | 1.8 |
| | | | $n_{2\,Eck}$ | 4 | 9 | 3 | 7 | 8 | 4 | 9 | 3 | 8 | 3 |
| | | | $n_{2\,th}$ | 4 | 9 | 3 | 7 | 8 | 4 | 9 | 3 | 8 | 3 |
| 513.121 | 11488 | 4.33 | $M_2$ | 2540 | 1971 | 4719 | 3751 | 3515 | 6414 | 5215 | 4332 | 3516 | 7625 |
| | | | c | 4.4 | 5.1 | 2.4 | 3.0 | 3.0 | 1.8 | 2.0 | 2.6 | 3.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 4 | 8 | 3 | 6 | 7 | 4 | 8 | 3 | 7 | 3 |
| | | | $n_{2\,th}$ | 4 | 8 | 3 | 6 | 7 | 4 | 8 | 3 | 7 | 3 |
| 578.164 | 11639 | 4.32 | $M_2$ | 2876 | 2233 | 5332 | 4240 | 3974 | 7241 | 5889 | 4895 | 3975 | 8605 |
| | | | c | 3.9 | 4.5 | 2.2 | 2.7 | 2.7 | 1.6 | 1.8 | 2.3 | 2.7 | 1.4 |
| | | | $n_{2\,Eck}$ | 3 | 7 | 3 | 5 | 6 | 3 | 7 | 3 | 6 | 3 |
| | | | $n_{2\,th}$ | 3 | 7 | 3 | 5 | 6 | 3 | 7 | 3 | 6 | 3 |
| 622.742 | 11488 | 4.12 | $M_2$ | 3109 | 2416 | 5754 | 4578 | 4291 | 7811 | 6353 | 5284 | 4292 | 9280 |
| | | | c | 3.6 | 4.2 | 2.0 | 2.5 | 2.5 | 1.5 | 1.6 | 2.2 | 2.5 | 1.2 |
| | | | $n_{2\,Eck}$ | 3 | 7 | 2 | 5 | 6 | 3 | 7 | 2 | 6 | 2 |
| | | | $n_{2\,th}$ | 3 | 7 | 2 | 5 | 6 | 3 | 7 | 2 | 6 | 2 |
| 701.681 | 11639 | 4.12 | $M_2$ | 3517 | 2735 | 6497 | 5173 | 4848 | 8815 | 7171 | 5967 | 4849 | 10470 |
| | | | c | 3.2 | 3.7 | 1.8 | 2.2 | 2.3 | 1.3 | 1.5 | 1.9 | 2.2 | 1.1 |
| | | | $n_{2\,Eck}$ | 3 | 6 | 2 | 4 | 5 | 3 | 6 | 2 | 5 | 2 |
| | | | $n_{2\,th}$ | 3 | 6 | 2 | 4 | 5 | 3 | 6 | 2 | 5 | 2 |
| 805.901 | 11488 | 2.62 | $M_2$ | 4060 | 3159 | 7482 | 5961 | 5587 | 10144 | 8255 | 6874 | 5588 | |
| | | | c | 2.8 | 3.2 | 1.5 | 1.9 | 1.9 | 1.1 | 1.3 | 1.7 | 1.9 | |
| | | | $n_{2\,Eck}$ | 2 | 5 | 2 | 4 | 4 | 2 | 5 | 2 | 5 | |
| | | | $n_{2\,th}$ | 2 | 5 | 2 | 4 | 4 | 2 | 5 | 2 | 4 | |
| 908.058 | 11639 | 2.62 | $M_2$ | 4589 | 3572 | 8445 | 6731 | 6309 | 11444 | 9314 | 7759 | 6310 | |
| | | | c | 2.5 | 2.9 | 1.4 | 1.7 | 1.7 | 1.0 | 1.1 | 1.5 | 1.7 | |
| | | | $n_{2\,Eck}$ | 2 | 5 | 2 | 3 | 4 | 2 | 5 | 2 | 4 | |
| | | | $n_{2\,th}$ | 2 | 4 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | |
| 978.071 | 11488 | 1.91 | $M_2$ | 4954 | 3858 | 9107 | 7261 | 6806 | | 10042 | 8369 | 6807 | |
| | | | c | 2.3 | 2.7 | 1.3 | 1.6 | 1.6 | | 1.0 | 1.4 | 1.6 | |
| | | | $n_{2\,Eck}$ | 2 | 4 | 2 | 3 | 4 | | 4 | 2 | 4 | |
| | | | $n_{2\,th}$ | 2 | 4 | 2 | 3 | 4 | | 4 | 2 | 4 | |
| 1102.052 | 11639 | 1.91 | $M_2$ | 5595 | 4359 | 10276 | 8196 | 7682 | | | 9444 | 7683 | |
| | | | c | 2.1 | 2.4 | 1.1 | 1.4 | 1.4 | | | 1.2 | 1.4 | |
| | | | $n_{2\,Eck}$ | 2 | 4 | 1 | 3 | 3 | | | 1 | 3 | |
| | | | $n_{2\,th}$ | 2 | 4 | 1 | 3 | 3 | | | 1 | 3 | |
| 1236.326 | 11488 | 1.26 | $M_2$ | 6294 | 4906 | | 9211 | 8634 | | | | | |
| | | | c | 1.8 | 2.1 | | 1.2 | 1.3 | | | | | |
| | | | $n_{2\,Eck}$ | 2 | 3 | | 2 | 3 | | | | | |
| | | | $n_{2\,th}$ | 2 | 3 | | 2 | 3 | | | | | |
| 1393.043 | 11639 | 1.26 | $M_2$ | 7106 | 5540 | | 10392 | 9742 | | | | | |
| | | | c | 1.6 | 1.9 | | 1.1 | 1.1 | | | | | |
| | | | $n_{2\,Eck}$ | 1 | 3 | | 2 | 3 | | | | | |
| | | | $n_{2\,th}$ | 1 | 3 | | 2 | 3 | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11639$ Nm

| 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GKS14-4S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | $I_{M\,230}$ | | | |
| 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 5695<br>2.0<br>7<br>7 | 9431<br>1.2<br>3<br>3 | 7025<br>1.6<br>7<br>7 | | 8603<br>1.3<br>7<br>7 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.73 | 11520 | 440.193 |
| 6659<br>1.7<br>6<br>6 | 11014<br>1.0<br>3<br>3 | 8209<br>1.4<br>6<br>6 | | 10049<br>1.1<br>6<br>6 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.33 | 11488 | 513.121 |
| 7517<br>1.5<br>6<br>6 | | 9263<br>1.2<br>6<br>6 | | 11336<br>1.0<br>6<br>6 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.32 | 11639 | 578.164 |
| 8108<br>1.4<br>5<br>5 | | 9988<br>1.1<br>5<br>5 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.12 | 11488 | 622.742 |
| 9149<br>1.2<br>5<br>5 | | 11268<br>1.0<br>5<br>5 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.12 | 11639 | 701.681 |
| 10527<br>1.1<br>4<br>4 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.62 | 11488 | 805.901 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.62 | 11639 | 908.058 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.91 | 11488 | 978.071 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.91 | 11639 | 1102.052 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 11488 | 1236.326 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 11639 | 1393.043 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

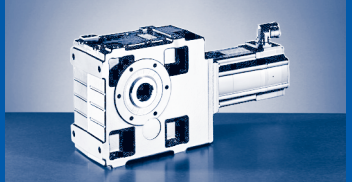
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 187$ Nm

| GKS04-3A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 5.123 | 81 | 1.17 | $M_2$ | 9 | 30 | 19 |
| | | | c | 6.0 | 2.0 | 3.0 |
| | | | $n_{2\,Eck}$ | 771 | 666 | 791 |
| | | | $n_{2\,th}$ | 727 | 593 | 639 |
| 7.025 | 93 | 0.68 | $M_2$ | 13 | 42 | 26 |
| | | | c | 5.0 | 1.7 | 2.5 |
| | | | $n_{2\,Eck}$ | 562 | 485 | 577 |
| | | | $n_{2\,th}$ | 562 | 445 | 503 |
| 8.167 | 128 | 0.86 | $M_2$ | 15 | 48 | 30 |
| | | | c | 6.0 | 2.0 | 3.0 |
| | | | $n_{2\,Eck}$ | 484 | 418 | 496 |
| | | | $n_{2\,th}$ | 456 | 372 | 401 |
| 8.991 | 103 | 0.44 | $M_2$ | 16 | 54 | 34 |
| | | | c | 4.4 | 1.5 | 2.2 |
| | | | $n_{2\,Eck}$ | 439 | 379 | 451 |
| | | | $n_{2\,th}$ | 439 | 379 | 450 |
| 9.836 | 106 | 0.38 | $M_2$ | 18 | 59 | 37 |
| | | | c | 4.1 | 1.4 | 2.0 |
| | | | $n_{2\,Eck}$ | 402 | 347 | 412 |
| | | | $n_{2\,th}$ | 402 | 347 | 412 |
| 11.730 | 180 | 0.73 | $M_2$ | 21 | 69 | 44 |
| | | | c | 5.9 | 2.0 | 2.9 |
| | | | $n_{2\,Eck}$ | 337 | 291 | 345 |
| | | | $n_{2\,th}$ | 316 | 256 | 278 |
| 13.067 | 165 | 0.70 | $M_2$ | 24 | 78 | 49 |
| | | | c | 4.8 | 1.6 | 2.4 |
| | | | $n_{2\,Eck}$ | 302 | 261 | 310 |
| | | | $n_{2\,th}$ | 274 | 206 | 240 |
| 14.333 | 164 | 0.35 | $M_2$ | 26 | 85 | 54 |
| | | | c | 4.4 | 1.5 | 2.2 |
| | | | $n_{2\,Eck}$ | 276 | 238 | 283 |
| | | | $n_{2\,th}$ | 276 | 238 | 283 |
| 16.087 | 181 | 0.44 | $M_2$ | 30 | 96 | 60 |
| | | | c | 4.3 | 1.4 | 2.1 |
| | | | $n_{2\,Eck}$ | 246 | 212 | 252 |
| | | | $n_{2\,th}$ | 242 | 181 | 214 |
| 17.920 | 166 | 0.43 | $M_2$ | 33 | 107 | 68 |
| | | | c | 3.5 | 1.2 | 1.8 |
| | | | $n_{2\,Eck}$ | 220 | 190 | 226 |
| | | | $n_{2\,th}$ | 210 | 150 | 178 |
| 20.588 | 182 | 0.30 | $M_2$ | 38 | 123 | 78 |
| | | | c | 3.4 | 1.1 | 1.7 |
| | | | $n_{2\,Eck}$ | 192 | 166 | 197 |
| | | | $n_{2\,th}$ | 192 | 148 | 178 |
| 22.522 | 182 | 0.26 | $M_2$ | 42 | 135 | 85 |
| | | | c | 3.1 | 1.0 | 1.5 |
| | | | $n_{2\,Eck}$ | 175 | 151 | 180 |
| | | | $n_{2\,th}$ | 175 | 138 | 163 |
| 25.088 | 167 | 0.25 | $M_2$ | 47 | | 95 |
| | | | c | 2.5 | | 1.3 |
| | | | $n_{2\,Eck}$ | 158 | | 161 |
| | | | $n_{2\,th}$ | 157 | | 134 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 187$ Nm

| GKS04-3A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 28.727 | 183 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 54<br>2.4<br>138<br>138 | | 109<br>1.2<br>141<br>133 |
| 32.000 | 167 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 60<br>2.0<br>123<br>123 | | |
| 35.191 | 183 | 0.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 66<br>2.0<br>112<br>112 | | |
| 39.200 | 168 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 74<br>1.6<br>101<br>101 | | |
| 44.240 | 185 | 0.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 83<br>1.8<br>89<br>89 | | |
| 50.943 | 182 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 96<br>1.6<br>78<br>72 | | |
| 56.976 | 187 | 0.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 108<br>1.4<br>69<br>69 | | |
| 64.978 | 183 | 0.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 123<br>1.2<br>61<br>59 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

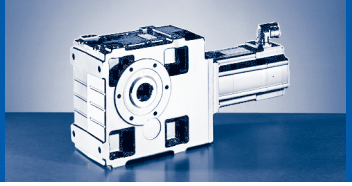
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 331$ Nm

| GKS05-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 6.863 | 147 | 1.90 | $M_2$ | | 40 | 25 | 78 | 43 | 70 | 34 |
| | | | c | | 2.7 | 4.1 | 1.8 | 3.1 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 497 | 590 | 238 | 291 | 503 | 597 |
| | | | $n_{2\,th}$ | | 389 | 422 | 238 | 291 | 321 | 397 |
| 9.412 | 165 | 1.17 | $M_2$ | | 56 | 35 | 107 | 59 | 96 | 48 |
| | | | c | | 2.2 | 3.3 | 1.5 | 2.5 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 362 | 430 | 174 | 213 | 367 | 436 |
| | | | $n_{2\,th}$ | | 320 | 347 | 174 | 213 | 248 | 327 |
| 10.569 | 227 | 1.60 | $M_2$ | | 62 | 39 | 119 | 66 | 108 | 53 |
| | | | c | | 2.7 | 4.1 | 1.8 | 3.1 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 323 | 383 | 155 | 189 | 327 | 388 |
| | | | $n_{2\,th}$ | | 253 | 274 | 155 | 189 | 209 | 258 |
| 11.667 | 251 | 1.65 | $M_2$ | | 69 | 43 | 132 | 73 | 119 | 59 |
| | | | c | | 2.7 | 4.1 | 1.8 | 3.1 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | | 292 | 347 | 140 | 171 | 296 | 351 |
| | | | $n_{2\,th}$ | | 229 | 248 | 140 | 171 | 189 | 234 |
| 13.176 | 165 | 0.71 | $M_2$ | 24 | 78 | 49 | 150 | 83 | | 67 |
| | | | c | 4.8 | 1.6 | 2.4 | 1.1 | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | 300 | 259 | 307 | 124 | 152 | | 311 |
| | | | $n_{2\,th}$ | 300 | 231 | 266 | 124 | 152 | | 242 |
| 14.494 | 254 | 1.05 | $M_2$ | | 86 | 54 | 164 | 91 | 148 | 73 |
| | | | c | | 2.2 | 3.3 | 1.5 | 2.5 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 235 | 279 | 113 | 138 | 238 | 283 |
| | | | $n_{2\,th}$ | | 208 | 225 | 113 | 138 | 161 | 212 |
| 16.000 | 280 | 1.04 | $M_2$ | | 95 | 59 | 181 | 100 | 164 | 81 |
| | | | c | | 2.2 | 3.3 | 1.5 | 2.5 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 213 | 253 | 102 | 125 | 216 | 256 |
| | | | $n_{2\,th}$ | | 188 | 204 | 102 | 125 | 146 | 192 |
| 17.054 | 314 | 1.51 | $M_2$ | | 101 | 63 | 193 | 107 | 174 | 86 |
| | | | c | | 2.3 | 3.5 | 1.6 | 2.6 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | 200 | 238 | 96 | 117 | 203 | 240 |
| | | | $n_{2\,th}$ | | 151 | 165 | 96 | 117 | 119 | 155 |
| 19.216 | 297 | 1.47 | $M_2$ | | 114 | 72 | 218 | 121 | 197 | 97 |
| | | | c | | 2.0 | 2.9 | 1.3 | 2.2 | 1.1 | 2.2 |
| | | | $n_{2\,Eck}$ | | 178 | 211 | 85 | 104 | 180 | 213 |
| | | | $n_{2\,th}$ | | 129 | 141 | 85 | 104 | 98 | 132 |
| 23.388 | 329 | 0.96 | $M_2$ | | 139 | 87 | 266 | 147 | 240 | 119 |
| | | | c | | 1.8 | 2.7 | 1.2 | 2.0 | 1.0 | 2.0 |
| | | | $n_{2\,Eck}$ | | 146 | 173 | 70 | 86 | 148 | 175 |
| | | | $n_{2\,th}$ | | 119 | 134 | 70 | 86 | 90 | 125 |
| 26.353 | 298 | 0.95 | $M_2$ | | 157 | 99 | | 167 | | 134 |
| | | | c | | 1.4 | 2.1 | | 1.6 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 129 | 154 | | 76 | | 156 |
| | | | $n_{2\,th}$ | | 94 | 113 | | 76 | | 98 |
| 29.931 | 330 | 0.67 | $M_2$ | 55 | 178 | 112 | | 189 | | 153 |
| | | | c | 4.2 | 1.4 | 2.1 | | 1.6 | | 1.5 |
| | | | $n_{2\,Eck}$ | 132 | 114 | 135 | | 67 | | 137 |
| | | | $n_{2\,th}$ | 125 | 92 | 110 | | 67 | | 96 |
| 32.744 | 331 | 0.58 | $M_2$ | 60 | 195 | 123 | | 207 | | 167 |
| | | | c | 3.9 | 1.3 | 1.9 | | 1.4 | | 1.4 |
| | | | $n_{2\,Eck}$ | 121 | 104 | 124 | | 61 | | 125 |
| | | | $n_{2\,th}$ | 116 | 85 | 102 | | 61 | | 88 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 331$ Nm

| GKS05-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 36.894 | 302 | 0.58 | $M_2$ | 69 | 221 | 139 | | 234 | | 189 |
| | | | c | 3.1 | 1.0 | 1.6 | | 1.2 | | 1.1 |
| | | | $n_{2\,Eck}$ | 107 | 92 | 110 | | 54 | | 111 |
| | | | $n_{2\,th}$ | 100 | 69 | 82 | | 54 | | 72 |
| 41.765 | 331 | 0.42 | $M_2$ | 78 | 250 | 158 | | 265 | | 214 |
| | | | c | 3.0 | 1.0 | 1.5 | | 1.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | 95 | 82 | 97 | | 48 | | 98 |
| | | | $n_{2\,th}$ | 95 | 71 | 84 | | 48 | | 73 |
| 47.059 | 304 | 0.41 | $M_2$ | 88 | | 178 | | 299 | | 241 |
| | | | c | 2.8 | | 1.4 | | 1.0 | | 1.0 |
| | | | $n_{2\,Eck}$ | 84 | | 86 | | 43 | | 87 |
| | | | $n_{2\,th}$ | 84 | | 72 | | 43 | | 63 |
| 51.162 | 331 | 0.32 | $M_2$ | 95 | | 194 | | 326 | | 262 |
| | | | c | 2.8 | | 1.4 | | 1.0 | | 1.0 |
| | | | $n_{2\,Eck}$ | 77 | | 79 | | 39 | | 80 |
| | | | $n_{2\,th}$ | 77 | | 74 | | 39 | | 66 |
| 57.647 | 307 | 0.32 | $M_2$ | 108 | | 219 | | | | |
| | | | c | 2.3 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 69 | | 70 | | | | |
| | | | $n_{2\,th}$ | 69 | | 61 | | | | |
| 66.592 | 331 | 0.20 | $M_2$ | 125 | | 253 | | | | |
| | | | c | 2.2 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 59 | | 61 | | | | |
| | | | $n_{2\,th}$ | 59 | | 61 | | | | |
| 75.033 | 310 | 0.20 | $M_2$ | 141 | | | | | | |
| | | | c | 1.8 | | | | | | |
| | | | $n_{2\,Eck}$ | 53 | | | | | | |
| | | | $n_{2\,th}$ | 53 | | | | | | |
| 82.833 | 331 | 0.14 | $M_2$ | 156 | | | | | | |
| | | | c | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 48 | | | | | | |
| | | | $n_{2\,th}$ | 48 | | | | | | |
| 93.333 | 315 | 0.14 | $M_2$ | 176 | | | | | | |
| | | | c | 1.5 | | | | | | |
| | | | $n_{2\,Eck}$ | 42 | | | | | | |
| | | | $n_{2\,th}$ | 42 | | | | | | |
| 107.196 | 331 | 0.09 | $M_2$ | 203 | | | | | | |
| | | | c | 1.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 37 | | | | | | |
| | | | $n_{2\,th}$ | 37 | | | | | | |
| 120.784 | 315 | 0.09 | $M_2$ | 229 | | | | | | |
| | | | c | 1.3 | | | | | | |
| | | | $n_{2\,Eck}$ | 33 | | | | | | |
| | | | $n_{2\,th}$ | 33 | | | | | | |
| 130.097 | 331 | 0.07 | $M_2$ | 247 | | | | | | |
| | | | c | 1.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 30 | | | | | | |
| | | | $n_{2\,th}$ | 30 | | | | | | |
| 146.588 | 315 | 0.07 | $M_2$ | 278 | | | | | | |
| | | | c | 1.0 | | | | | | |
| | | | $n_{2\,Eck}$ | 27 | | | | | | |
| | | | $n_{2\,th}$ | 27 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

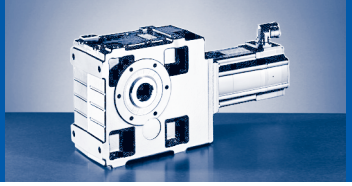
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 283$ Nm

| GKS05-4A | | | | 10IC40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | 2.4 |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 114.987 | 256 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 215<br>1.1<br>34<br>34 |
| 126.933 | 283 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 237<br>1.1<br>31<br>31 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| GKS06-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 6.485 | 263 | 5.87 | $M_2$ | | | | 72 | 39 | 65 | 32 | 131 | 65 | 116 | 57 |
| | | | c | | | | 3.5 | 5.8 | 3.0 | 5.7 | 1.9 | 3.4 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | 252 | 308 | 533 | 632 | 259 | 355 | 537 | 634 |
| | | | $n_{2\,th}$ | | | | 252 | 308 | 354 | 404 | 259 | 355 | 294 | 359 |
| 9.196 | 373 | 5.05 | $M_2$ | | | | 102 | 56 | 92 | 45 | 186 | 92 | 165 | 81 |
| | | | c | | | | 3.5 | 5.8 | 3.0 | 5.7 | 1.9 | 3.4 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | 178 | 218 | 376 | 446 | 183 | 250 | 378 | 447 |
| | | | $n_{2\,th}$ | | | | 178 | 217 | 249 | 285 | 183 | 250 | 207 | 253 |
| 10.147 | 412 | 4.86 | $M_2$ | | | | 113 | 61 | 102 | 49 | 205 | 101 | 182 | 89 |
| | | | c | | | | 3.5 | 5.8 | 3.0 | 5.7 | 1.9 | 3.4 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | 161 | 197 | 341 | 404 | 166 | 227 | 343 | 405 |
| | | | $n_{2\,th}$ | | | | 161 | 197 | 226 | 258 | 166 | 227 | 188 | 230 |
| 11.382 | 331 | 2.49 | $M_2$ | | 66 | 41 | 128 | 70 | 115 | 57 | 232 | 115 | 205 | 101 |
| | | | c | | 3.7 | 5.5 | 2.5 | 4.2 | 2.2 | 4.1 | 1.4 | 2.5 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 300 | 356 | 144 | 176 | 304 | 360 | 148 | 202 | 306 | 361 |
| | | | $n_{2\,th}$ | | 284 | 306 | 144 | 176 | 253 | 289 | 148 | 202 | 190 | 257 |
| 12.612 | 426 | 3.20 | $M_2$ | | | | 141 | 77 | 127 | 62 | 256 | 127 | 227 | 112 |
| | | | c | | | | 2.9 | 4.8 | 2.5 | 4.7 | 1.6 | 2.9 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 130 | 159 | 274 | 325 | 133 | 182 | 276 | 326 |
| | | | $n_{2\,th}$ | | | | 130 | 159 | 203 | 232 | 133 | 182 | 160 | 207 |
| 14.824 | 600 | 4.29 | $M_2$ | | | | 165 | 90 | 149 | 72 | 300 | 148 | 266 | 131 |
| | | | c | | | | 3.5 | 5.8 | 3.0 | 5.7 | 1.9 | 3.4 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | 110 | 135 | 233 | 277 | 113 | 155 | 235 | 277 |
| | | | $n_{2\,th}$ | | | | 110 | 135 | 155 | 177 | 113 | 155 | 129 | 157 |
| 16.699 | 604 | 4.16 | $M_2$ | | | | 186 | 102 | 168 | 82 | 339 | 168 | 300 | 148 |
| | | | c | | | | 3.1 | 5.2 | 2.7 | 5.0 | 1.7 | 3.1 | 1.5 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 98 | 120 | 207 | 246 | 101 | 138 | 208 | 246 |
| | | | $n_{2\,th}$ | | | | 98 | 120 | 134 | 153 | 101 | 138 | 107 | 136 |
| 17.809 | 518 | 2.13 | $M_2$ | | 104 | 64 | 200 | 110 | 180 | 88 | 362 | 180 | 321 | 158 |
| | | | c | | 3.7 | 5.5 | 2.5 | 4.2 | 2.2 | 4.1 | 1.4 | 2.5 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 192 | 227 | 92 | 112 | 194 | 230 | 94 | 129 | 195 | 231 |
| | | | $n_{2\,th}$ | | 182 | 196 | 92 | 112 | 162 | 185 | 94 | 129 | 122 | 165 |
| 20.329 | 665 | 2.79 | $M_2$ | | | | 227 | 124 | 205 | 100 | 413 | 205 | 365 | 180 |
| | | | c | | | | 2.8 | 4.7 | 2.4 | 4.6 | 1.5 | 2.8 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | | | | 80 | 98 | 170 | 202 | 83 | 113 | 171 | 202 |
| | | | $n_{2\,th}$ | | | | 80 | 98 | 125 | 143 | 83 | 113 | 98 | 127 |
| 22.902 | 606 | 2.73 | $M_2$ | | | | 258 | 141 | 233 | 114 | 466 | 232 | 413 | 204 |
| | | | c | | | | 2.3 | 3.8 | 2.0 | 3.7 | 1.3 | 2.2 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | 71 | 87 | 151 | 179 | 73 | 100 | 152 | 180 |
| | | | $n_{2\,th}$ | | | | 71 | 87 | 106 | 122 | 73 | 100 | 78 | 108 |
| 26.017 | 679 | 1.94 | $M_2$ | | 152 | 95 | 293 | 161 | 264 | 130 | 530 | 264 | 469 | 232 |
| | | | c | | 3.3 | 4.9 | 2.2 | 3.7 | 1.9 | 3.6 | 1.2 | 2.2 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 131 | 156 | 63 | 77 | 133 | 158 | 65 | 88 | 134 | 158 |
| | | | $n_{2\,th}$ | | 122 | 131 | 63 | 77 | 107 | 124 | 65 | 88 | 79 | 110 |
| 28.461 | 682 | 1.67 | $M_2$ | | 167 | 104 | 321 | 177 | 290 | 142 | 580 | 289 | 514 | 254 |
| | | | c | | 3.1 | 4.5 | 2.0 | 3.4 | 1.8 | 3.3 | 1.1 | 2.0 | 1.0 | 1.9 |
| | | | $n_{2\,Eck}$ | | 120 | 142 | 58 | 70 | 121 | 144 | 59 | 81 | 122 | 144 |
| | | | $n_{2\,th}$ | | 113 | 122 | 57 | 70 | 97 | 115 | 59 | 81 | 73 | 101 |
| 32.063 | 610 | 1.63 | $M_2$ | | 189 | 118 | 363 | 200 | 328 | 162 | | 327 | | 288 |
| | | | c | | 2.4 | 3.6 | 1.6 | 2.7 | 1.4 | 2.7 | | 1.6 | | 1.5 |
| | | | $n_{2\,Eck}$ | | 106 | 126 | 51 | 62 | 108 | 128 | | 72 | | 128 |
| | | | $n_{2\,th}$ | | 96 | 104 | 51 | 62 | 76 | 98 | | 72 | | 79 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

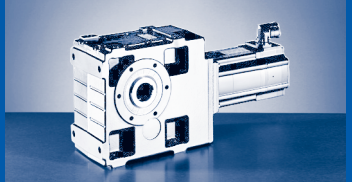
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 36.303 | 685 | 1.18 | $M_2$ | | 214 | 134 | 411 | 227 | 371 | 183 | | 370 | | 326 |
| | | | c | | 2.4 | 3.6 | 1.6 | 2.7 | 1.4 | 2.6 | | 1.6 | | 1.5 |
| | | | $n_{2\,Eck}$ | | 94 | 112 | 45 | 55 | 95 | 113 | | 63 | | 113 |
| | | | $n_{2\,th}$ | | 94 | 101 | 45 | 55 | 76 | 96 | | 63 | | 79 |
| 41.472 | 689 | 2.11 | $M_2$ | | | | 471 | 260 | 424 | 210 | | 424 | | 373 |
| | | | c | | | | 1.4 | 2.4 | 1.2 | 2.3 | | 1.4 | | 1.3 |
| | | | $n_{2\,Eck}$ | | | | 39 | 48 | 83 | 99 | | 56 | | 99 |
| | | | $n_{2\,th}$ | | | | 39 | 48 | 45 | 61 | | 49 | | 47 |
| 44.471 | 689 | 0.90 | $M_2$ | | 263 | 165 | 505 | 279 | 455 | 225 | | 454 | | 400 |
| | | | c | | 2.2 | 3.3 | 1.4 | 2.4 | 1.3 | 2.5 | | 1.5 | | 1.4 |
| | | | $n_{2\,Eck}$ | | 77 | 91 | 37 | 45 | 78 | 92 | | 52 | | 92 |
| | | | $n_{2\,th}$ | | 77 | 91 | 37 | 45 | 70 | 81 | | 52 | | 70 |
| 53.074 | 695 | 1.52 | $M_2$ | | 315 | 198 | 604 | 334 | 544 | 269 | | 543 | | 478 |
| | | | c | | 1.9 | 2.8 | 1.2 | 2.1 | 1.1 | 2.1 | | 1.3 | | 1.2 |
| | | | $n_{2\,Eck}$ | | 64 | 76 | 31 | 38 | 65 | 77 | | 43 | | 77 |
| | | | $n_{2\,th}$ | | 52 | 58 | 31 | 38 | 39 | 54 | | 41 | | 40 |
| 57.882 | 695 | 0.58 | $M_2$ | 105 | 344 | 216 | 659 | 365 | 594 | 294 | | | | |
| | | | c | 5.2 | 1.7 | 2.6 | 1.1 | 1.9 | 1.0 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 68 | 59 | 70 | 28 | 35 | 60 | 71 | | | | |
| | | | $n_{2\,th}$ | 68 | 59 | 70 | 28 | 35 | 58 | 62 | | | | |
| 65.207 | 624 | 0.57 | $M_2$ | 120 | 389 | 245 | | 413 | | 333 | | | | |
| | | | c | 4.2 | 1.4 | 2.1 | | 1.5 | | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 61 | 52 | 62 | | 31 | | 63 | | | | |
| | | | $n_{2\,th}$ | 61 | 52 | 62 | | 31 | | 55 | | | | |
| 72.000 | 702 | 0.42 | $M_2$ | 132 | 429 | 270 | | 456 | | 367 | | | | |
| | | | c | 4.2 | 1.4 | 2.1 | | 1.5 | | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 55 | 47 | 56 | | 28 | | 57 | | | | |
| | | | $n_{2\,th}$ | 55 | 47 | 56 | | 28 | | 50 | | | | |
| 81.111 | 630 | 0.42 | $M_2$ | 150 | 485 | 306 | | 515 | | 415 | | | | |
| | | | c | 3.4 | 1.1 | 1.7 | | 1.2 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 49 | 42 | 50 | | 25 | | 51 | | | | |
| | | | $n_{2\,th}$ | 49 | 42 | 50 | | 25 | | 44 | | | | |
| 93.176 | 702 | 0.26 | $M_2$ | 173 | 557 | 352 | | | | | | | | |
| | | | c | 3.3 | 1.1 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 42 | 37 | 44 | | | | | | | | |
| | | | $n_{2\,th}$ | 42 | 37 | 43 | | | | | | | | |
| 104.967 | 635 | 0.25 | $M_2$ | 196 | | 398 | | | | | | | | |
| | | | c | 2.6 | | 1.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 38 | | 39 | | | | | | | | |
| | | | $n_{2\,th}$ | 38 | | 39 | | | | | | | | |
| 113.082 | 702 | 0.19 | $M_2$ | 210 | | 427 | | | | | | | | |
| | | | c | 3.0 | | 1.5 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 35 | | 36 | | | | | | | | |
| | | | $n_{2\,th}$ | 35 | | 36 | | | | | | | | |
| 127.392 | 635 | 0.19 | $M_2$ | 238 | | 483 | | | | | | | | |
| | | | c | 2.4 | | 1.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 31 | | 32 | | | | | | | | |
| | | | $n_{2\,th}$ | 31 | | 32 | | | | | | | | |
| 142.941 | 702 | 0.12 | $M_2$ | 268 | | | | | | | | | | |
| | | | c | 2.4 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 28 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 28 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 702$ Nm

| GKS06-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 161.029 | 635 | 0.12 | $M_2$ | 303 | | | | | | | | | | |
| | | | c | 1.9 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 25 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 25 | | | | | | | | | | |
| 190.080 | 702 | 0.23 | $M_2$ | 358 | | | | | | | | | | |
| | | | c | 1.8 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 21 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 21 | | | | | | | | | | |
| 214.133 | 635 | 0.23 | $M_2$ | 405 | | | | | | | | | | |
| | | | c | 1.4 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 19 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 18 | | | | | | | | | | |
| 230.688 | 702 | 0.17 | $M_2$ | 436 | | | | | | | | | | |
| | | | c | 1.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 17 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 17 | | | | | | | | | | |
| 259.880 | 635 | 0.17 | $M_2$ | 493 | | | | | | | | | | |
| | | | c | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 15 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 15 | | | | | | | | | | |
| 291.600 | 702 | 0.11 | $M_2$ | 553 | | | | | | | | | | |
| | | | c | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 14 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 14 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

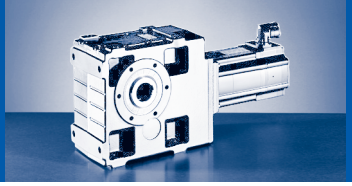
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 702$ Nm

| GKS06-4A | | | | 10IC40 | 13IC41 |
|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 4.00 |
| | | | $n_1$ | 3950 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 4.4 |
| | | | $P_N$ | 0.80 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 |
| 103.721 | 685 | 0.30 | $M_2$ | 190 | 386 |
| | | | c | 2.9 | 1.4 |
| | | | $n_{2\,Eck}$ | 38 | 39 |
| | | | $n_{2\,th}$ | 38 | 39 |
| 113.205 | 537 | 0.23 | $M_2$ | 208 | 422 |
| | | | c | 2.3 | 1.2 |
| | | | $n_{2\,Eck}$ | 35 | 36 |
| | | | $n_{2\,th}$ | 35 | 36 |
| 127.059 | 689 | 0.26 | $M_2$ | 233 | 473 |
| | | | c | 2.7 | 1.3 |
| | | | $n_{2\,Eck}$ | 31 | 32 |
| | | | $n_{2\,th}$ | 31 | 32 |
| 140.816 | 537 | 0.21 | $M_2$ | 261 | |
| | | | c | 1.9 | |
| | | | $n_{2\,Eck}$ | 28 | |
| | | | $n_{2\,th}$ | 28 | |
| 155.647 | 689 | 0.19 | $M_2$ | 287 | 581 |
| | | | c | 2.2 | 1.1 |
| | | | $n_{2\,Eck}$ | 25 | 26 |
| | | | $n_{2\,th}$ | 25 | 26 |
| 174.336 | 537 | 0.11 | $M_2$ | 324 | |
| | | | c | 1.5 | |
| | | | $n_{2\,Eck}$ | 23 | |
| | | | $n_{2\,th}$ | 23 | |
| 202.588 | 695 | 0.17 | $M_2$ | 376 | |
| | | | c | 1.7 | |
| | | | $n_{2\,Eck}$ | 20 | |
| | | | $n_{2\,th}$ | 20 | |
| 224.524 | 537 | 0.07 | $M_2$ | 419 | |
| | | | c | 1.2 | |
| | | | $n_{2\,Eck}$ | 18 | |
| | | | $n_{2\,th}$ | 18 | |
| 252.000 | 702 | 0.16 | $M_2$ | 469 | |
| | | | c | 1.4 | |
| | | | $n_{2\,Eck}$ | 16 | |
| | | | $n_{2\,th}$ | 16 | |
| 316.800 | 702 | 0.10 | $M_2$ | 591 | |
| | | | c | 1.1 | |
| | | | $n_{2\,Eck}$ | 13 | |
| | | | $n_{2\,th}$ | 12 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

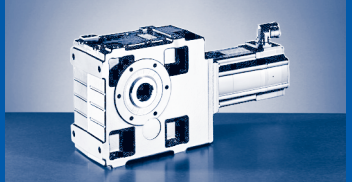


## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 5.955 | 471 | 19.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 118<br>3.7<br>282<br>282 | |
| 8.254 | 541 | 11.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 165<br>3.1<br>204<br>204 | 81<br>5.5<br>279<br>279 |
| 9.171 | 725 | 16.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 182<br>3.7<br>183<br>183 | |
| 10.124 | 800 | 15.88 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 201<br>3.7<br>166<br>166 | |
| 11.378 | 613 | 7.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 125<br>4.6<br>144<br>144 | | 113<br>4.0<br>304<br>248 | | 229<br>2.5<br>148<br>148 | 112<br>4.6<br>202<br>202 |
| 12.711 | 832 | 10.16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 254<br>3.1<br>132<br>132 | 124<br>5.5<br>181<br>181 |
| 14.798 | 1040 | 14.31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 295<br>3.3<br>114<br>114 | 144<br>5.9<br>155<br>153 |
| 16.674 | 1071 | 13.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 333<br>3.0<br>101<br>101 | 163<br>5.4<br>138<br>134 |
| 17.270 | 998 | 7.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 189<br>4.9<br>95<br>95 | | 171<br>4.3<br>200<br>159 | | 346<br>2.7<br>97<br>97 | 170<br>4.9<br>133<br>133 |
| 20.511 | 1110 | 9.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 412<br>2.6<br>82<br>82 | 202<br>4.6<br>112<br>112 |
| 23.111 | 1168 | 8.91 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 465<br>2.4<br>73<br>73 | 229<br>4.3<br>100<br>100 |
| 25.244 | 1177 | 6.72 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 279<br>4.0<br>65<br>65 | | 252<br>3.4<br>137<br>104 | | 509<br>2.2<br>67<br>67 | 251<br>3.9<br>91<br>91 |
| 28.274 | 1202 | 5.57 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 313<br>3.6<br>58<br>58 | | 284<br>3.1<br>122<br>95 | 137<br>5.9<br>145<br>108 | 571<br>2.0<br>59<br>59 | 282<br>3.6<br>81<br>81 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS07-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 105 | | 203 | 89 | 202 | 65 | 346 | 136 | 311 | 94 | $M_2$ | 19.30 | 471 | 5.955 |
| 3.3 | | 2.2 | 4.4 | 1.7 | 4.9 | 1.3 | 2.9 | 1.1 | 3.5 | c | | | |
| 584 | | 286 | 393 | 589 | 697 | 287 | 418 | 591 | 699 | $n_{2\,Eck}$ | | | |
| 335 | | 285 | 357 | 273 | 367 | 230 | 323 | 215 | 338 | $n_{2\,th}$ | | | |
| 146 | 71 | 282 | 124 | 281 | 91 | 481 | 190 | | 131 | $M_2$ | 11.80 | 541 | 8.254 |
| 2.7 | 5.2 | 1.8 | 3.7 | 1.4 | 4.1 | 1.1 | 2.4 | | 2.9 | c | | | |
| 422 | 498 | 206 | 284 | 425 | 503 | 207 | 302 | | 504 | $n_{2\,Eck}$ | | | |
| 268 | 307 | 206 | 284 | 206 | 292 | 178 | 244 | | 244 | $n_{2\,th}$ | | | |
| 161 | | 312 | 137 | 311 | 100 | 533 | 210 | 478 | 144 | $M_2$ | 16.00 | 725 | 9.171 |
| 3.3 | | 2.2 | 4.4 | 1.7 | 4.9 | 1.3 | 2.9 | 1.1 | 3.5 | c | | | |
| 380 | | 185 | 255 | 383 | 453 | 187 | 272 | 384 | 454 | $n_{2\,Eck}$ | | | |
| 217 | | 185 | 232 | 177 | 238 | 150 | 210 | 140 | 220 | $n_{2\,th}$ | | | |
| 178 | | 345 | 151 | 343 | 111 | 589 | 232 | 528 | 159 | $M_2$ | 15.88 | 800 | 10.124 |
| 3.3 | | 2.2 | 4.4 | 1.7 | 4.9 | 1.3 | 2.9 | 1.1 | 3.5 | c | | | |
| 344 | | 168 | 231 | 347 | 410 | 169 | 246 | 348 | 411 | $n_{2\,Eck}$ | | | |
| 197 | | 168 | 210 | 160 | 216 | 135 | 190 | 127 | 199 | $n_{2\,th}$ | | | |
| 203 | 99 | 390 | 172 | 388 | 126 | | 263 | | 181 | $M_2$ | 7.02 | 613 | 11.378 |
| 2.3 | 4.3 | 1.5 | 3.0 | 1.2 | 3.4 | | 2.0 | | 2.4 | c | | | |
| 306 | 361 | 149 | 206 | 309 | 365 | | 219 | | 366 | $n_{2\,Eck}$ | | | |
| 220 | 252 | 149 | 206 | 162 | 215 | | 177 | | 177 | $n_{2\,th}$ | | | |
| 225 | 110 | 434 | 191 | 433 | 140 | 741 | 293 | | 201 | $M_2$ | 10.16 | 832 | 12.711 |
| 2.7 | 5.2 | 1.8 | 3.7 | 1.4 | 4.1 | 1.1 | 2.4 | | 2.9 | c | | | |
| 274 | 323 | 134 | 184 | 276 | 327 | 135 | 196 | | 327 | $n_{2\,Eck}$ | | | |
| 174 | 199 | 134 | 184 | 134 | 190 | 116 | 158 | | 158 | $n_{2\,th}$ | | | |
| 262 | 127 | 505 | 222 | 503 | 163 | 862 | 340 | 773 | 234 | $M_2$ | 14.31 | 1040 | 14.798 |
| 2.9 | 5.6 | 2.0 | 3.9 | 1.6 | 4.4 | 1.2 | 2.5 | 1.0 | 3.1 | c | | | |
| 235 | 278 | 115 | 158 | 237 | 280 | 116 | 168 | 238 | 281 | $n_{2\,Eck}$ | | | |
| 131 | 151 | 115 | 140 | 102 | 144 | 87 | 126 | 82 | 133 | $n_{2\,th}$ | | | |
| 296 | 144 | 570 | 251 | 568 | 184 | 972 | 384 | | 264 | $M_2$ | 13.97 | 1071 | 16.674 |
| 2.7 | 5.1 | 1.8 | 3.6 | 1.4 | 4.0 | 1.1 | 2.3 | | 2.8 | c | | | |
| 209 | 247 | 102 | 140 | 211 | 249 | 103 | 149 | | 250 | $n_{2\,Eck}$ | | | |
| 114 | 132 | 99 | 122 | 86 | 125 | 74 | 110 | | 115 | $n_{2\,th}$ | | | |
| 307 | 150 | 592 | 261 | 589 | 191 | | 399 | | 274 | $M_2$ | 7.26 | 998 | 17.270 |
| 2.4 | 4.6 | 1.6 | 3.2 | 1.3 | 3.6 | | 2.1 | | 2.6 | c | | | |
| 202 | 238 | 98 | 136 | 203 | 240 | | 144 | | 241 | $n_{2\,Eck}$ | | | |
| 141 | 162 | 98 | 136 | 104 | 142 | | 117 | | 117 | $n_{2\,th}$ | | | |
| 365 | 179 | 703 | 311 | 700 | 228 | | 474 | | 326 | $M_2$ | 9.08 | 1110 | 20.511 |
| 2.3 | 4.3 | 1.5 | 3.0 | 1.2 | 3.4 | | 2.0 | | 2.4 | c | | | |
| 170 | 200 | 83 | 114 | 171 | 202 | | 121 | | 203 | $n_{2\,Eck}$ | | | |
| 103 | 119 | 83 | 110 | 75 | 113 | | 98 | | 98 | $n_{2\,th}$ | | | |
| 412 | 202 | 793 | 351 | 789 | 257 | | 535 | | 368 | $M_2$ | 8.91 | 1168 | 23.111 |
| 2.1 | 4.0 | 1.4 | 2.8 | 1.1 | 3.2 | | 1.8 | | 2.2 | c | | | |
| 151 | 178 | 74 | 101 | 152 | 180 | | 108 | | 180 | $n_{2\,Eck}$ | | | |
| 90 | 104 | 73 | 96 | 65 | 99 | | 84 | | 87 | $n_{2\,th}$ | | | |
| 451 | 221 | 868 | 384 | 863 | 282 | | 586 | | 403 | $M_2$ | 6.72 | 1177 | 25.244 |
| 2.0 | 3.7 | 1.3 | 2.6 | 1.0 | 2.9 | | 1.7 | | 2.1 | c | | | |
| 138 | 163 | 67 | 93 | 139 | 164 | | 99 | | 165 | $n_{2\,Eck}$ | | | |
| 91 | 106 | 67 | 93 | 64 | 97 | | 80 | | 80 | $n_{2\,th}$ | | | |
| 506 | 249 | 973 | 431 | | 317 | | 657 | | 452 | $M_2$ | 5.57 | 1202 | 28.274 |
| 1.8 | 3.4 | 1.2 | 2.4 | | 2.7 | | 1.5 | | 1.9 | c | | | |
| 123 | 145 | 60 | 83 | | 147 | | 88 | | 147 | $n_{2\,Eck}$ | | | |
| 81 | 97 | 60 | 83 | | 87 | | 71 | | 71 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

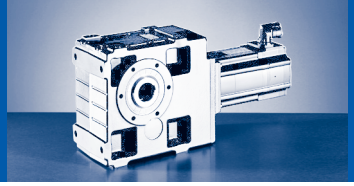
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 31.858 | 1172 | 5.47 | $M_2$ | | | | 355 | 194 | 321 | 156 | 646 | 320 |
| | | | c | | | | 3.1 | 5.3 | 2.7 | 5.1 | 1.7 | 3.1 |
| | | | $n_{2\,Eck}$ | | | | 51 | 63 | 109 | 129 | 53 | 72 |
| | | | $n_{2\,th}$ | | | | 51 | 63 | 82 | 93 | 53 | 72 |
| 36.063 | 1290 | 3.65 | $M_2$ | | 208 | | 402 | 220 | 364 | 177 | 731 | 362 |
| | | | c | | 4.6 | | 3.1 | 5.1 | 2.6 | 5.0 | 1.7 | 3.0 |
| | | | $n_{2\,Eck}$ | | 95 | | 45 | 56 | 96 | 114 | 47 | 64 |
| | | | $n_{2\,th}$ | | 94 | | 45 | 55 | 84 | 96 | 47 | 64 |
| 40.906 | 1290 | 6.93 | $M_2$ | | | | | | | | 831 | 412 |
| | | | c | | | | | | | | 1.5 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | | | | 41 | 56 |
| | | | $n_{2\,th}$ | | | | | | | | 41 | 54 |
| 44.178 | 1300 | 2.78 | $M_2$ | | | | 495 | 270 | 446 | 218 | 898 | 444 |
| | | | c | | | | 2.6 | 4.6 | 2.5 | 4.7 | 1.4 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | 37 | 45 | 78 | 93 | 38 | 52 |
| | | | $n_{2\,th}$ | | | | 37 | 45 | 74 | 81 | 38 | 52 |
| 50.345 | 1300 | 5.30 | $M_2$ | | | | 566 | 310 | 510 | 250 | 1025 | 508 |
| | | | c | | | | 2.3 | 4.1 | 2.2 | 4.1 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | 33 | 40 | 69 | 81 | 33 | 46 |
| | | | $n_{2\,th}$ | | | | 32 | 40 | 47 | 54 | 33 | 46 |
| 57.501 | 1310 | 1.75 | $M_2$ | | 336 | 210 | 649 | 356 | 584 | 287 | 1173 | 582 |
| | | | c | | 3.3 | 4.9 | 2.0 | 3.6 | 1.9 | 3.6 | 1.1 | 2.2 |
| | | | $n_{2\,Eck}$ | | 59 | 70 | 28 | 35 | 60 | 71 | 29 | 40 |
| | | | $n_{2\,th}$ | | 59 | 70 | 28 | 35 | 60 | 62 | 29 | 40 |
| 64.790 | 1195 | 1.73 | $M_2$ | | 381 | 238 | 734 | 404 | 661 | 326 | | 659 |
| | | | c | | 2.7 | 4.0 | 1.6 | 2.9 | 1.6 | 2.9 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 53 | 63 | 25 | 31 | 53 | 63 | | 36 |
| | | | $n_{2\,th}$ | | 53 | 63 | 25 | 31 | 52 | 55 | | 36 |
| 70.474 | 1320 | 1.30 | $M_2$ | | 414 | 259 | 798 | 439 | 719 | 354 | | 717 |
| | | | c | | 2.7 | 4.0 | 1.6 | 2.9 | 1.6 | 3.0 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 48 | 58 | 23 | 28 | 49 | 58 | | 33 |
| | | | $n_{2\,th}$ | | 48 | 57 | 23 | 28 | 49 | 51 | | 33 |
| 79.407 | 1205 | 1.28 | $M_2$ | | 469 | 295 | 902 | 498 | 812 | 401 | | 811 |
| | | | c | | 2.2 | 3.3 | 1.3 | 2.4 | 1.3 | 2.4 | | 1.5 |
| | | | $n_{2\,Eck}$ | | 43 | 51 | 21 | 25 | 44 | 52 | | 29 |
| | | | $n_{2\,th}$ | | 43 | 51 | 21 | 25 | 44 | 45 | | 29 |
| 92.563 | 1330 | 0.81 | $M_2$ | | 548 | 344 | 1052 | 581 | 948 | 468 | | |
| | | | c | | 2.1 | 3.1 | 1.3 | 2.3 | 1.2 | 2.3 | | |
| | | | $n_{2\,Eck}$ | | 37 | 44 | 18 | 22 | 37 | 44 | | |
| | | | $n_{2\,th}$ | | 37 | 44 | 18 | 22 | 37 | 39 | | |
| 104.296 | 1215 | 0.80 | $M_2$ | 190 | 620 | 390 | 1189 | 658 | | 530 | | |
| | | | c | 5.1 | 1.7 | 2.5 | 1.0 | 1.8 | | 1.9 | | |
| | | | $n_{2\,Eck}$ | 38 | 33 | 39 | 16 | 19 | | 39 | | |
| | | | $n_{2\,th}$ | 38 | 33 | 39 | 16 | 19 | | 34 | | |
| 112.338 | 1330 | 0.59 | $M_2$ | 203 | 666 | 419 | 1280 | 708 | 1151 | 570 | | |
| | | | c | 5.7 | 1.9 | 2.8 | 1.0 | 1.9 | 1.1 | 2.1 | | |
| | | | $n_{2\,Eck}$ | 35 | 30 | 36 | 15 | 18 | 31 | 37 | | |
| | | | $n_{2\,th}$ | 35 | 30 | 36 | 15 | 18 | 31 | 32 | | |
| 126.578 | 1215 | 0.59 | $M_2$ | 231 | 753 | 474 | | 801 | | 645 | | |
| | | | c | 4.6 | 1.5 | 2.3 | | 1.5 | | 1.7 | | |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | | 16 | | 32 | | |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | | 16 | | 28 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS07-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 572 | 282 | 1098 | 488 | | 358 | | 742 | | 511 | $M_2$ | 5.47 | 1172 | 31.858 |
| 1.5 | 2.9 | 1.0 | 2.1 | | 2.3 | | 1.3 | | 1.6 | c | | | |
| 109 | 129 | 53 | 74 | | 130 | | 78 | | 131 | $n_{2\,Eck}$ | | | |
| 66 | 83 | 53 | 73 | | 77 | | 61 | | 63 | $n_{2\,th}$ | | | |
| 647 | 319 | | 553 | | 406 | | | | | $M_2$ | 3.65 | 1290 | 36.063 |
| 1.5 | 2.8 | | 2.0 | | 2.2 | | | | | c | | | |
| 97 | 114 | | 65 | | 115 | | | | | $n_{2\,Eck}$ | | | |
| 67 | 86 | | 65 | | 68 | | | | | $n_{2\,th}$ | | | |
| 736 | 363 | | 628 | | 461 | | 954 | | 658 | $M_2$ | 6.93 | 1290 | 40.906 |
| 1.3 | 2.5 | | 1.8 | | 2.0 | | 1.1 | | 1.4 | c | | | |
| 85 | 101 | | 57 | | 102 | | 61 | | 102 | $n_{2\,Eck}$ | | | |
| 40 | 53 | | 47 | | 50 | | 37 | | 41 | $n_{2\,th}$ | | | |
| 794 | 392 | | 678 | | 498 | | | | | $M_2$ | 2.78 | 1300 | 44.178 |
| 1.4 | 2.7 | | 1.9 | | 2.1 | | | | | c | | | |
| 79 | 93 | | 53 | | 94 | | | | | $n_{2\,Eck}$ | | | |
| 60 | 70 | | 53 | | 55 | | | | | $n_{2\,th}$ | | | |
| 906 | 448 | | 774 | | 569 | | 1176 | | 810 | $M_2$ | 5.30 | 1300 | 50.345 |
| 1.2 | 2.3 | | 1.6 | | 1.8 | | 1.1 | | 1.3 | c | | | |
| 69 | 82 | | 47 | | 82 | | 50 | | 83 | $n_{2\,Eck}$ | | | |
| 35 | 48 | | 41 | | 44 | | 33 | | 36 | $n_{2\,th}$ | | | |
| 1037 | 513 | | | | | | | | | $M_2$ | 1.75 | 1310 | 57.501 |
| 1.1 | 2.1 | | | | | | | | | c | | | |
| 61 | 72 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 49 | 54 | | | | | | | | | $n_{2\,th}$ | | | |
| | 581 | | | | | | | | | $M_2$ | 1.73 | 1195 | 64.790 |
| | 1.7 | | | | | | | | | c | | | |
| | 63 | | | | | | | | | $n_{2\,Eck}$ | | | |
| | 48 | | | | | | | | | $n_{2\,th}$ | | | |
| | 631 | | | | | | | | | $M_2$ | 1.30 | 1320 | 70.474 |
| | 1.7 | | | | | | | | | c | | | |
| | 58 | | | | | | | | | $n_{2\,Eck}$ | | | |
| | 44 | | | | | | | | | $n_{2\,th}$ | | | |
| | 714 | | | | | | | | | $M_2$ | 1.28 | 1205 | 79.407 |
| | 1.4 | | | | | | | | | c | | | |
| | 52 | | | | | | | | | $n_{2\,Eck}$ | | | |
| | 39 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.81 | 1330 | 92.563 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.80 | 1215 | 104.296 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.59 | 1330 | 112.338 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | $M_2$ | 0.59 | 1215 | 126.578 |
| | | | | | | | | | | c | | | |
| | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

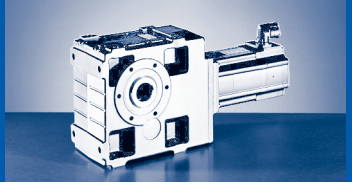
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 140.548 | 1330 | 1.11 | $M_2$ | | 836 | 527 | | 890 | | 716 | | |
| | | | c | | 1.5 | 2.3 | | 1.5 | | 1.7 | | |
| | | | $n_{2\,Eck}$ | | 24 | 29 | | 14 | | 29 | | |
| | | | $n_{2\,th}$ | | 24 | 29 | | 14 | | 26 | | |
| 158.364 | 1215 | 1.11 | $M_2$ | | 945 | 596 | | 1006 | | 809 | | |
| | | | c | | 1.2 | 1.8 | | 1.2 | | 1.4 | | |
| | | | $n_{2\,Eck}$ | | 22 | 26 | | 13 | | 26 | | |
| | | | $n_{2\,th}$ | | 22 | 26 | | 13 | | 23 | | |
| 184.600 | 1330 | 0.69 | $M_2$ | 342 | 1103 | 696 | | 1173 | | 944 | | |
| | | | c | 3.5 | 1.2 | 1.7 | | 1.1 | | 1.3 | | |
| | | | $n_{2\,Eck}$ | 21 | 19 | 22 | | 11 | | 22 | | |
| | | | $n_{2\,th}$ | 21 | 18 | 22 | | 11 | | 19 | | |
| 208.000 | 1215 | 0.69 | $M_2$ | 388 | | 787 | | | | 1067 | | |
| | | | c | 2.8 | | 1.4 | | | | 1.0 | | |
| | | | $n_{2\,Eck}$ | 19 | | 20 | | | | 20 | | |
| | | | $n_{2\,th}$ | 19 | | 19 | | | | 17 | | |
| 224.037 | 1330 | 0.51 | $M_2$ | 417 | | 848 | | | | 1149 | | |
| | | | c | 2.9 | | 1.4 | | | | 1.0 | | |
| | | | $n_{2\,Eck}$ | 18 | | 18 | | | | 18 | | |
| | | | $n_{2\,th}$ | 18 | | 18 | | | | 16 | | |
| 252.436 | 1215 | 0.51 | $M_2$ | 473 | | 958 | | | | | | |
| | | | c | 2.3 | | 1.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 16 | | 16 | | | | | | |
| | | | $n_{2\,th}$ | 16 | | 16 | | | | | | |
| 283.193 | 1330 | 0.33 | $M_2$ | 531 | | 1075 | | | | | | |
| | | | c | 2.3 | | 1.1 | | | | | | |
| | | | $n_{2\,Eck}$ | 14 | | 14 | | | | | | |
| | | | $n_{2\,th}$ | 14 | | 14 | | | | | | |
| 319.091 | 1215 | 0.33 | $M_2$ | 601 | | | | | | | | |
| | | | c | 1.8 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | | | | | | | | |
| | | | $n_{2\,th}$ | 12 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS07-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.11 | 1330 | 140.548 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.11 | 1215 | 158.364 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.69 | 1330 | 184.600 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.69 | 1215 | 208.000 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.51 | 1330 | 224.037 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.51 | 1215 | 252.436 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.33 | 1330 | 283.193 |
| | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.33 | 1215 | 319.091 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

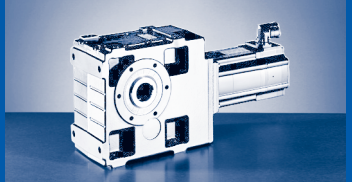
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1330$ Nm

| GKS07-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 103.039 | 1290 | 0.84 | $M_2$ | 183 | 601 | 378 | 1153 | 638 | 1038 | 514 |
| | | | c | 5.5 | 1.8 | 2.7 | 1.1 | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 38 | 33 | 39 | 16 | 19 | 34 | 40 |
| | | | $n_{2\,th}$ | 38 | 33 | 39 | 16 | 19 | 34 | 35 |
| 112.391 | 1053 | 0.63 | $M_2$ | 202 | 657 | 414 | | 699 | | 563 |
| | | | c | 4.6 | 1.5 | 2.3 | | 1.5 | | 1.7 |
| | | | $n_{2\,Eck}$ | 35 | 30 | 36 | | 18 | | 37 |
| | | | $n_{2\,th}$ | 35 | 30 | 36 | | 18 | | 32 |
| 126.222 | 1300 | 0.73 | $M_2$ | 226 | 737 | 464 | | 784 | | 631 |
| | | | c | 5.0 | 1.7 | 2.5 | | 1.7 | | 1.8 |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | | 16 | | 33 |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | | 16 | | 28 |
| 137.748 | 1053 | 0.57 | $M_2$ | 250 | 808 | 510 | | 860 | | 692 |
| | | | c | 3.7 | 1.3 | 1.9 | | 1.2 | | 1.4 |
| | | | $n_{2\,Eck}$ | 29 | 25 | 29 | | 15 | | 30 |
| | | | $n_{2\,th}$ | 29 | 25 | 29 | | 15 | | 26 |
| 154.622 | 1300 | 0.53 | $M_2$ | 279 | 906 | 571 | | 964 | | 775 |
| | | | c | 4.1 | 1.4 | 2.0 | | 1.3 | | 1.5 |
| | | | $n_{2\,Eck}$ | 26 | 22 | 26 | | 13 | | 27 |
| | | | $n_{2\,th}$ | 26 | 22 | 26 | | 13 | | 23 |
| 179.201 | 1053 | 0.28 | $M_2$ | 328 | | 666 | | | | |
| | | | c | 2.9 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 22 | | 23 | | | | |
| | | | $n_{2\,th}$ | 22 | | 23 | | | | |
| 201.254 | 1310 | 0.45 | $M_2$ | 367 | 1183 | 747 | | 1258 | | 1013 |
| | | | c | 3.2 | 1.1 | 1.6 | | 1.0 | | 1.2 |
| | | | $n_{2\,Eck}$ | 20 | 17 | 20 | | 10 | | 20 |
| | | | $n_{2\,th}$ | 20 | 17 | 20 | | 10 | | 18 |
| 222.909 | 1053 | 0.20 | $M_2$ | 410 | | 831 | | | | |
| | | | c | 2.3 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 18 | | 18 | | | | |
| | | | $n_{2\,th}$ | 18 | | 18 | | | | |
| 246.659 | 1320 | 0.42 | $M_2$ | 453 | | 918 | | | | |
| | | | c | 2.6 | | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 16 | | 16 | | | | |
| | | | $n_{2\,th}$ | 16 | | 16 | | | | |
| 273.199 | 1053 | 0.18 | $M_2$ | 505 | | | | | | |
| | | | c | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 15 | | | | | | |
| | | | $n_{2\,th}$ | 14 | | | | | | |
| 321.049 | 1320 | 0.26 | $M_2$ | 593 | | | | | | |
| | | | c | 2.0 | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | | | | | | |
| | | | $n_{2\,th}$ | 12 | | | | | | |
| 358.829 | 1053 | 0.17 | $M_2$ | 667 | | | | | | |
| | | | c | 1.4 | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | | | | | | |
| | | | $n_{2\,th}$ | 11 | | | | | | |
| 399.353 | 1320 | 0.18 | $M_2$ | 741 | | | | | | |
| | | | c | 1.6 | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | | | | | | |
| | | | $n_{2\,th}$ | 10 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1330$ Nm

| GKS07-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 464.367 | 1053 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 866<br>1.1<br>9<br>9 | | | | | | |
| 516.810 | 1320 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 963<br>1.3<br>8<br>8 | | | | | | |
| 636.581 | 1330 | 0.16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1189<br>1.0<br>6<br>6 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

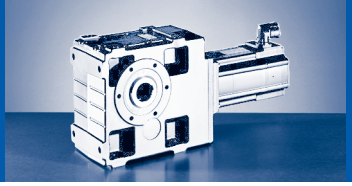
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 12.283 | 1615 | 34.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 13.360 | 1757 | 33.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 16.122 | 1801 | 22.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 314<br>5.3<br>104<br>104 | | 280<br>4.7<br>216<br>141 | |
| 17.536 | 1958 | 22.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 342<br>5.3<br>96<br>96 | | 304<br>4.7<br>199<br>129 | |
| 19.541 | 2570 | 30.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 22.022 | 2672 | 29.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 25.649 | 2862 | 20.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 500<br>5.3<br>66<br>66 | | 445<br>4.7<br>136<br>88 | |
| 29.228 | 2914 | 15.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 574<br>4.7<br>58<br>57 | | 510<br>4.2<br>119<br>83 | |
| 32.940 | 2984 | 15.60 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 650<br>4.3<br>51<br>51 | | 577<br>3.8<br>106<br>72 | |
| 35.193 | 2670 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 344<br>5.6<br>98<br>83 | | | | | |
| 35.193 | 3029 | 12.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 696<br>4.1<br>48<br>48 | | 618<br>3.6<br>99<br>75 | |
| 39.662 | 3002 | 12.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 387<br>5.6<br>87<br>73 | | 788<br>3.6<br>42<br>42 | | 699<br>3.2<br>88<br>65 | 339<br>6.0<br>104<br>74 |
| 43.146 | 3024 | 9.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 859<br>3.4<br>39<br>39 | | 760<br>3.3<br>81<br>66 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS09-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 412 | | 412 | | 708 | 276 | 636 | 188 | $M_2$ | 34.20 | 1615 | 12.283 |
| 3.7 | | 2.9 | | 2.2 | 4.8 | 1.9 | 5.8 | c | | | |
| 138 | | 286 | | 139 | 203 | 287 | 339 | $n_{2\,Eck}$ | | | |
| 138 | | 146 | | 135 | 163 | 129 | 164 | $n_{2\,th}$ | | | |
| 448 | | 448 | | 770 | 300 | 691 | 205 | $M_2$ | 33.40 | 1757 | 13.360 |
| 3.7 | | 2.9 | | 2.2 | 4.8 | 1.9 | 5.8 | c | | | |
| 127 | | 263 | | 128 | 186 | 264 | 311 | $n_{2\,Eck}$ | | | |
| 127 | | 134 | | 124 | 150 | 119 | 151 | $n_{2\,th}$ | | | |
| 544 | | 543 | | 932 | 365 | 837 | 250 | $M_2$ | 22.60 | 1801 | 16.122 |
| 3.1 | | 2.5 | | 1.8 | 4.0 | 1.6 | 4.9 | c | | | |
| 105 | | 218 | | 106 | 154 | 218 | 258 | $n_{2\,Eck}$ | | | |
| 105 | | 122 | | 106 | 125 | 103 | 125 | $n_{2\,th}$ | | | |
| 591 | | 590 | | 1014 | 397 | 910 | 271 | $M_2$ | 22.20 | 1958 | 17.536 |
| 3.1 | | 2.5 | | 1.8 | 4.0 | 1.6 | 4.9 | c | | | |
| 97 | | 200 | | 98 | 142 | 201 | 237 | $n_{2\,Eck}$ | | | |
| 97 | | 112 | | 98 | 115 | 95 | 115 | $n_{2\,th}$ | | | |
| 655 | | 655 | | 1126 | 439 | 1011 | 300 | $M_2$ | 30.60 | 2570 | 19.541 |
| 3.7 | | 2.9 | | 2.2 | 4.8 | 1.9 | 5.8 | c | | | |
| 87 | | 180 | | 88 | 127 | 180 | 213 | $n_{2\,Eck}$ | | | |
| 87 | | 91 | | 85 | 102 | 81 | 103 | $n_{2\,th}$ | | | |
| 740 | | 740 | | 1271 | 496 | 1141 | 339 | $M_2$ | 29.90 | 2672 | 22.022 |
| 3.4 | | 2.7 | | 2.0 | 4.4 | 1.8 | 5.4 | c | | | |
| 77 | | 159 | | 78 | 113 | 160 | 189 | $n_{2\,Eck}$ | | | |
| 77 | | 80 | | 74 | 89 | 69 | 91 | $n_{2\,th}$ | | | |
| 865 | | 864 | | 1483 | 580 | 1331 | 397 | $M_2$ | 20.50 | 2862 | 25.649 |
| 3.1 | | 2.5 | | 1.8 | 4.0 | 1.6 | 4.9 | c | | | |
| 66 | | 137 | | 67 | 97 | 137 | 162 | $n_{2\,Eck}$ | | | |
| 66 | | 77 | | 67 | 79 | 65 | 79 | $n_{2\,th}$ | | | |
| 989 | 431 | 987 | | 1693 | 664 | 1520 | 455 | $M_2$ | 15.90 | 2914 | 29.228 |
| 2.8 | 5.6 | 2.2 | | 1.6 | 3.6 | 1.4 | 4.4 | c | | | |
| 58 | 80 | 120 | | 59 | 85 | 120 | 142 | $n_{2\,Eck}$ | | | |
| 58 | 80 | 72 | | 59 | 69 | 58 | 69 | $n_{2\,th}$ | | | |
| 1118 | 488 | 1115 | 357 | 1911 | 751 | 1715 | 515 | $M_2$ | 15.60 | 2984 | 32.940 |
| 2.5 | 5.1 | 2.0 | 5.7 | 1.5 | 3.3 | 1.3 | 4.0 | c | | | |
| 52 | 71 | 107 | 126 | 52 | 76 | 107 | 126 | $n_{2\,Eck}$ | | | |
| 52 | 71 | 62 | 74 | 52 | 61 | 49 | 61 | $n_{2\,th}$ | | | |
| | | | | | | | | $M_2$ | 12.20 | 2670 | 35.193 |
| | | | | | | | | c | | | |
| | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | $n_{2\,th}$ | | | |
| 1196 | 523 | 1192 | 383 | 2044 | 804 | 1834 | 552 | $M_2$ | 12.20 | 3029 | 35.193 |
| 2.4 | 4.8 | 1.9 | 5.4 | 1.4 | 3.1 | 1.2 | 3.8 | c | | | |
| 48 | 67 | 100 | 118 | 49 | 71 | 100 | 118 | $n_{2\,Eck}$ | | | |
| 48 | 66 | 64 | 70 | 49 | 57 | 50 | 57 | $n_{2\,th}$ | | | |
| 1352 | 593 | 1347 | 434 | 2307 | 910 | 2070 | 625 | $M_2$ | 12.00 | 3002 | 39.662 |
| 2.1 | 4.2 | 1.7 | 4.7 | 1.2 | 2.7 | 1.1 | 3.3 | c | | | |
| 43 | 59 | 89 | 105 | 43 | 63 | 89 | 105 | $n_{2\,Eck}$ | | | |
| 43 | 59 | 53 | 62 | 43 | 51 | 42 | 51 | $n_{2\,th}$ | | | |
| 1472 | 644 | 1464 | 471 | 2511 | 988 | 2251 | 678 | $M_2$ | 9.00 | 3024 | 43.146 |
| 2.0 | 4.4 | 1.8 | 5.0 | 1.2 | 2.9 | 1.2 | 3.5 | c | | | |
| 39 | 54 | 81 | 96 | 40 | 58 | 82 | 96 | $n_{2\,Eck}$ | | | |
| 39 | 54 | 55 | 57 | 40 | 47 | 45 | 47 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

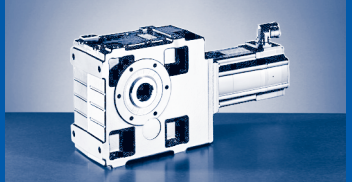
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 48.625 | 3017 | 8.87 | $M_2$ | | | | | 972 | 473 | 860 | 418 |
| | | | c | | | | | 3.0 | 6.0 | 3.0 | 5.6 |
| | | | $n_{2\,Eck}$ | | | | | 35 | 47 | 72 | 85 |
| | | | $n_{2\,th}$ | | | | | 35 | 47 | 57 | 64 |
| 58.456 | 2977 | 5.54 | $M_2$ | 642 | | 579 | | | | | |
| | | | c | 4.5 | | 4.3 | | | | | |
| | | | $n_{2\,Eck}$ | 28 | | 59 | | | | | |
| | | | $n_{2\,th}$ | 28 | | 59 | | | | | |
| 58.456 | 3031 | 5.54 | $M_2$ | | | | | 1174 | 575 | 1039 | 507 |
| | | | c | | | | | 2.5 | 5.0 | 2.5 | 4.7 |
| | | | $n_{2\,Eck}$ | | | | | 29 | 39 | 60 | 70 |
| | | | $n_{2\,th}$ | | | | | 29 | 39 | 53 | 53 |
| 65.879 | 3048 | 5.47 | $M_2$ | 727 | | 655 | | 1327 | 651 | 1174 | 575 |
| | | | c | 4.1 | | 3.9 | | 2.3 | 4.4 | 2.2 | 4.2 |
| | | | $n_{2\,Eck}$ | 25 | | 52 | | 26 | 35 | 53 | 62 |
| | | | $n_{2\,th}$ | 25 | | 52 | | 26 | 35 | 47 | 47 |
| 70.982 | 3031 | 4.14 | $M_2$ | 786 | | 708 | | 1433 | 704 | 1267 | 621 |
| | | | c | 3.8 | | 3.6 | | 2.1 | 4.1 | 2.0 | 3.8 |
| | | | $n_{2\,Eck}$ | 23 | | 49 | | 24 | 32 | 49 | 58 |
| | | | $n_{2\,th}$ | 23 | | 49 | | 24 | 32 | 44 | 44 |
| 79.996 | 3071 | 4.10 | $M_2$ | 889 | | 801 | | 1619 | 797 | 1431 | 703 |
| | | | c | 3.4 | | 3.2 | | 1.9 | 3.7 | 1.8 | 3.5 |
| | | | $n_{2\,Eck}$ | 20 | | 43 | | 21 | 29 | 44 | 51 |
| | | | $n_{2\,th}$ | 20 | | 43 | | 21 | 29 | 39 | 39 |
| 91.860 | 3031 | 2.63 | $M_2$ | 1026 | 559 | 925 | 450 | 1864 | 921 | 1648 | 812 |
| | | | c | 2.9 | 5.2 | 2.8 | 5.2 | 1.6 | 3.2 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | 18 | 22 | 38 | 45 | 18 | 25 | 38 | 45 |
| | | | $n_{2\,th}$ | 18 | 22 | 38 | 39 | 18 | 25 | 34 | 34 |
| 103.524 | 3080 | 2.61 | $M_2$ | 1160 | 633 | 1045 | 510 | 2104 | 1041 | 1860 | 918 |
| | | | c | 2.6 | 4.7 | 2.5 | 4.7 | 1.5 | 2.9 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | 16 | 19 | 33 | 40 | 16 | 22 | 34 | 40 |
| | | | $n_{2\,th}$ | 16 | 19 | 33 | 35 | 16 | 22 | 30 | 30 |
| 111.484 | 3031 | 1.92 | $M_2$ | 1252 | 685 | 1125 | 549 | 2269 | 1124 | 2003 | 988 |
| | | | c | 2.4 | 4.3 | 2.5 | 4.8 | 1.3 | 2.7 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | 15 | 18 | 31 | 37 | 15 | 21 | 31 | 37 |
| | | | $n_{2\,th}$ | 15 | 18 | 31 | 32 | 15 | 21 | 28 | 28 |
| 125.641 | 3080 | 1.90 | $M_2$ | 1415 | 776 | 1272 | 622 | 2560 | 1270 | 2261 | 1116 |
| | | | c | 2.2 | 3.9 | 2.3 | 4.3 | 1.2 | 2.4 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | 13 | 16 | 28 | 33 | 13 | 18 | 28 | 33 |
| | | | $n_{2\,th}$ | 13 | 16 | 28 | 29 | 13 | 18 | 25 | 25 |
| 140.921 | 2973 | 1.26 | $M_2$ | 1591 | 874 | 1430 | 702 | | | | |
| | | | c | 1.9 | 3.4 | 2.0 | 3.8 | | | | |
| | | | $n_{2\,Eck}$ | 12 | 14 | 25 | 29 | | | | |
| | | | $n_{2\,th}$ | 12 | 14 | 25 | 25 | | | | |
| 158.816 | 3080 | 1.25 | $M_2$ | 1797 | 989 | 1615 | 794 | | | | |
| | | | c | 1.7 | 3.1 | 1.8 | 3.4 | | | | |
| | | | $n_{2\,Eck}$ | 10 | 13 | 22 | 26 | | | | |
| | | | $n_{2\,th}$ | 10 | 13 | 22 | 23 | | | | |
| 182.000 | 3031 | 2.25 | $M_2$ | 2064 | 1139 | 1856 | 915 | | 1855 | | 1631 |
| | | | c | 1.5 | 2.6 | 1.6 | 2.9 | | 1.6 | | 1.7 |
| | | | $n_{2\,Eck}$ | 9 | 11 | 19 | 23 | | 13 | | 23 |
| | | | $n_{2\,th}$ | 9 | 11 | 19 | 20 | | 13 | | 17 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS09-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 1662<br>1.8<br>35<br>35 | 730<br>3.9<br>48<br>48 | 1653<br>1.6<br>72<br>46 | 534<br>4.4<br>85<br>50 | 2834<br>1.1<br>35<br>35 | 1118<br>2.6<br>51<br>41 | 2540<br>1.0<br>72<br>38 | 768<br>3.1<br>86<br>41 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.87 | 3017 | 48.625 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.54 | 2977 | 58.456 |
| 2005<br>1.5<br>29<br>29 | 883<br>3.3<br>40<br>40 | 1993<br>1.3<br>60<br>42 | 647<br>3.7<br>71<br>42 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.54 | 3031 | 58.456 |
| 2263<br>1.3<br>26<br>26 | 999<br>2.9<br>36<br>36 | 2249<br>1.2<br>53<br>36 | 733<br>3.3<br>63<br>37 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.47 | 3048 | 65.879 |
| 2441<br>1.2<br>24<br>24 | 1079<br>2.7<br>33<br>33 | 2425<br>1.1<br>50<br>35 | 792<br>3.0<br>59<br>35 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.14 | 3031 | 70.982 |
| 2755<br>1.1<br>21<br>21 | 1220<br>2.4<br>29<br>29 | | 895<br>2.7<br>52<br>31 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.10 | 3071 | 79.996 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.63 | 3031 | 91.860 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.61 | 3080 | 103.524 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.92 | 3031 | 111.484 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.90 | 3080 | 125.641 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 2973 | 140.921 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.25 | 3080 | 158.816 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.25 | 3031 | 182.000 |

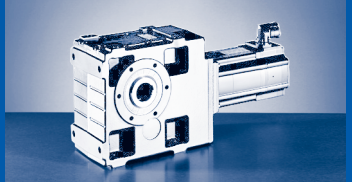
M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 205.111 | 3080 | 2.24 | $M_2$ | 2330 | 1287 | 2095 | 1034 | | 2094 | | 1841 |
| | | | c | 1.3 | 2.4 | 1.4 | 2.6 | | 1.5 | | 1.5 |
| | | | $n_{2\,Eck}$ | 8 | 10 | 17 | 20 | | 11 | | 20 |
| | | | $n_{2\,th}$ | 8 | 10 | 17 | 18 | | 11 | | 15 |
| 220.882 | 3031 | 1.66 | $M_2$ | 2512 | 1389 | 2259 | 1116 | | 2258 | | 1985 |
| | | | c | 1.2 | 2.2 | 1.3 | 2.4 | | 1.3 | | 1.4 |
| | | | $n_{2\,Eck}$ | 7 | 9 | 16 | 19 | | 10 | | 19 |
| | | | $n_{2\,th}$ | 7 | 9 | 16 | 16 | | 10 | | 14 |
| 248.930 | 3080 | 1.65 | $M_2$ | 2835 | 1568 | 2550 | 1261 | | 2548 | | 2241 |
| | | | c | 1.1 | 1.9 | 1.2 | 2.2 | | 1.2 | | 1.2 |
| | | | $n_{2\,Eck}$ | 7 | 8 | 14 | 17 | | 9 | | 17 |
| | | | $n_{2\,th}$ | 7 | 8 | 14 | 14 | | 9 | | 13 |
| 279.205 | 3031 | 1.10 | $M_2$ | | 1764 | 2864 | 1418 | | | | |
| | | | c | | 1.7 | 1.0 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | | 7 | 12 | 15 | | | | |
| | | | $n_{2\,th}$ | | 7 | 12 | 13 | | | | |
| 314.659 | 3080 | 1.10 | $M_2$ | | 1991 | | 1602 | | | | |
| | | | c | | 1.5 | | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | | 6 | | 13 | | | | |
| | | | $n_{2\,th}$ | | 6 | | 11 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS09-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 2.24 | 3080 | 205.111 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.66 | 3031 | 220.882 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.65 | 3080 | 248.930 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.10 | 3031 | 279.205 |
| | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 1.10 | 3080 | 314.659 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

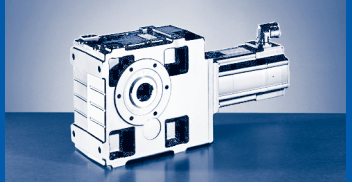
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 3080$ Nm

| GKS09-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 100.551 | 3029 | 2.48 | $M_2$ | | 570 | | 1106 | 603 | 997 | 486 | 2008 | 993 | 1775 | 875 |
| | | | c | | 4.4 | | 2.7 | 4.8 | 2.6 | 4.9 | 1.5 | 2.9 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 34 | | 16 | 20 | 34 | 41 | 17 | 23 | 35 | 41 |
| | | | $n_{2\,th}$ | | 34 | | 16 | 20 | 34 | 36 | 17 | 23 | 31 | 31 |
| 113.320 | 3002 | 2.46 | $M_2$ | | 643 | | 1251 | 684 | 1124 | 549 | 2267 | 1123 | 2001 | 987 |
| | | | c | | 4.3 | | 2.4 | 4.2 | 2.5 | 4.7 | 1.3 | 2.6 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 30 | | 14 | 18 | 31 | 36 | 15 | 20 | 31 | 36 |
| | | | $n_{2\,th}$ | | 30 | | 14 | 18 | 30 | 32 | 15 | 20 | 27 | 27 |
| 123.275 | 3024 | 2.11 | $M_2$ | | 702 | 436 | 1364 | 747 | 1226 | 599 | 2469 | 1224 | 2180 | 1076 |
| | | | c | | 4.0 | 5.9 | 2.2 | 3.9 | 2.3 | 4.4 | 1.2 | 2.4 | 1.3 | 2.5 |
| | | | $n_{2\,Eck}$ | | 28 | 33 | 13 | 16 | 28 | 33 | 14 | 19 | 28 | 33 |
| | | | $n_{2\,th}$ | | 28 | 33 | 13 | 16 | 28 | 29 | 14 | 19 | 25 | 25 |
| 138.929 | 3017 | 2.09 | $M_2$ | | 795 | 495 | 1541 | 846 | 1385 | 679 | 2787 | 1384 | 2460 | 1216 |
| | | | c | | 3.5 | 5.3 | 1.9 | 3.5 | 2.1 | 3.9 | 1.1 | 2.2 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 25 | 29 | 12 | 14 | 25 | 30 | 12 | 17 | 25 | 30 |
| | | | $n_{2\,th}$ | | 25 | 29 | 12 | 14 | 25 | 26 | 12 | 17 | 22 | 22 |
| 151.012 | 3024 | 1.52 | $M_2$ | | 867 | 541 | 1678 | 922 | 1508 | 740 | | 1507 | 2677 | 1325 |
| | | | c | | 3.3 | 4.9 | 1.8 | 3.2 | 1.9 | 3.6 | | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | 23 | 27 | 11 | 13 | 23 | 27 | | 15 | 23 | 27 |
| | | | $n_{2\,th}$ | | 23 | 27 | 11 | 13 | 23 | 24 | | 15 | 21 | 21 |
| 170.188 | 3017 | 1.51 | $M_2$ | | 981 | 613 | 1895 | 1044 | 1704 | 838 | | 1702 | | 1497 |
| | | | c | | 2.9 | 4.3 | 1.6 | 2.8 | 1.7 | 3.2 | | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | | 20 | 24 | 10 | 12 | 20 | 24 | | 14 | | 24 |
| | | | $n_{2\,th}$ | | 20 | 24 | 10 | 12 | 20 | 21 | | 14 | | 18 |
| 204.596 | 3031 | 1.24 | $M_2$ | | 1185 | 743 | 2285 | 1261 | 2054 | 1013 | | 2053 | | 1805 |
| | | | c | | 2.4 | 3.6 | 1.3 | 2.4 | 1.4 | 2.7 | | 1.5 | | 1.5 |
| | | | $n_{2\,Eck}$ | | 17 | 20 | 8 | 10 | 17 | 20 | | 11 | | 20 |
| | | | $n_{2\,th}$ | | 17 | 20 | 8 | 10 | 17 | 18 | | 11 | | 15 |
| 230.577 | 3048 | 1.24 | $M_2$ | | 1340 | 841 | 2579 | 1425 | 2319 | 1146 | | 2317 | | 2038 |
| | | | c | | 2.2 | 3.2 | 1.2 | 2.1 | 1.3 | 2.4 | | 1.3 | | 1.3 |
| | | | $n_{2\,Eck}$ | | 15 | 18 | 7 | 9 | 15 | 18 | | 10 | | 18 |
| | | | $n_{2\,th}$ | | 15 | 18 | 7 | 9 | 15 | 16 | | 10 | | 13 |
| 248.439 | 3031 | 1.13 | $M_2$ | | 1446 | 908 | 2781 | 1538 | 2501 | 1237 | | 2500 | | 2198 |
| | | | c | | 2.0 | 3.0 | 1.1 | 2.0 | 1.2 | 2.2 | | 1.2 | | 1.2 |
| | | | $n_{2\,Eck}$ | | 14 | 16 | 7 | 8 | 14 | 17 | | 9 | | 17 |
| | | | $n_{2\,th}$ | | 14 | 16 | 7 | 8 | 14 | 14 | | 9 | | 13 |
| 279.986 | 3071 | 1.13 | $M_2$ | | 1633 | 1027 | | 1737 | 2822 | 1397 | | 2821 | | 2481 |
| | | | c | | 1.8 | 2.7 | | 1.8 | 1.0 | 2.0 | | 1.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | | 12 | 15 | | 7 | 12 | 15 | | 8 | | 15 |
| | | | $n_{2\,th}$ | | 12 | 14 | | 7 | 12 | 13 | | 8 | | 11 |
| 323.365 | 3031 | 0.71 | $M_2$ | 581 | 1891 | 1191 | | 2012 | | 1619 | | | | |
| | | | c | 4.6 | 1.5 | 2.3 | | 1.5 | | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 12 | 11 | 13 | | 6 | | 13 | | | | |
| | | | $n_{2\,th}$ | 12 | 11 | 13 | | 6 | | 11 | | | | |
| 364.427 | 3071 | 0.71 | $M_2$ | 658 | 2135 | 1346 | | 2271 | | 1828 | | | | |
| | | | c | 4.1 | 1.4 | 2.0 | | 1.4 | | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 11 | 9 | 11 | | 6 | | 11 | | | | |
| | | | $n_{2\,th}$ | 11 | 9 | 11 | | 5 | | 10 | | | | |
| 402.234 | 3031 | 0.51 | $M_2$ | 730 | 2360 | 1489 | | 2511 | | 2021 | | | | |
| | | | c | 3.7 | 1.2 | 1.8 | | 1.2 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 10 | 9 | 10 | | 5 | | 10 | | | | |
| | | | $n_{2\,th}$ | 10 | 8 | 10 | | 5 | | 9 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 3080$ Nm

| GKS09-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 453.311 | 3071 | 0.51 | $M_2$ | 826 | 2664 | 1681 | | 2833 | | 2280 | | | | |
| | | | c | 3.3 | 1.1 | 1.6 | | 1.1 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 9 | 8 | 9 | | 4 | | 9 | | | | |
| | | | $n_{2\,th}$ | 9 | 8 | 9 | | 4 | | 8 | | | | |
| 520.538 | 3031 | 0.47 | $M_2$ | 953 | | 1936 | | | | 2623 | | | | |
| | | | c | 2.9 | | 1.4 | | | | 1.0 | | | | |
| | | | $n_{2\,Eck}$ | 8 | | 8 | | | | 8 | | | | |
| | | | $n_{2\,th}$ | 8 | | 8 | | | | 7 | | | | |
| 586.638 | 3080 | 0.47 | $M_2$ | 1077 | | 2185 | | | | | | | | |
| | | | c | 2.6 | | 1.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 7 | | 7 | | | | | | | | |
| | | | $n_{2\,th}$ | 7 | | 7 | | | | | | | | |
| 631.744 | 3031 | 0.44 | $M_2$ | 1163 | | 2355 | | | | | | | | |
| | | | c | 2.3 | | 1.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | | 6 | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | | 6 | | | | | | | | |
| 711.965 | 3080 | 0.44 | $M_2$ | 1314 | | 2658 | | | | | | | | |
| | | | c | 2.1 | | 1.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | | 6 | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | | 6 | | | | | | | | |
| 817.551 | 3031 | 0.28 | $M_2$ | 1513 | | | | | | | | | | |
| | | | c | 1.8 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 5 | | | | | | | | | | |
| 921.367 | 3080 | 0.28 | $M_2$ | 1709 | | | | | | | | | | |
| | | | c | 1.6 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | | | | | | | | | | |
| 992.209 | 3031 | 0.20 | $M_2$ | 1843 | | | | | | | | | | |
| | | | c | 1.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | | | | | | | | | | |
| 1118.204 | 3080 | 0.20 | $M_2$ | 2080 | | | | | | | | | | |
| | | | c | 1.4 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | | | | | | | | | | |
| 1254.197 | 3031 | 0.13 | $M_2$ | 2338 | | | | | | | | | | |
| | | | c | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | | | | | | | | | | |
| 1413.461 | 3080 | 0.13 | $M_2$ | 2638 | | | | | | | | | | |
| | | | c | 1.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

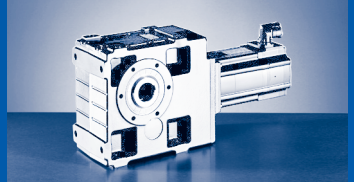
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 12.094 | 2770 | 104.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 13.154 | 3013 | 101.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 15.874 | 3090 | 68.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 17.265 | 3360 | 66.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 19.515 | 4470 | 90.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 21.989 | 4884 | 90.40 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 25.615 | 4985 | 61.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 28.021 | 5163 | 52.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 31.573 | 5521 | 51.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 35.741 | 3935 | 36.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 698<br>5.2<br>47<br>47 | | 621<br>4.6<br>97<br>63 | |
| 35.741 | 5655 | 36.80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 40.272 | 4434 | 36.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 786<br>5.2<br>42<br>42 | | 699<br>4.6<br>86<br>56 | |
| 40.272 | 5869 | 36.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | 685<br>3.8<br>141<br>131 | | 617<br>3.3<br>291<br>127 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 104.00 | 2770 | 12.094 |
| | | | | 745<br>3.8<br>130<br>121 | | 671<br>3.3<br>268<br>117 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 101.00 | 3013 | 13.154 |
| | | | | 904<br>3.2<br>108<br>108 | | 814<br>2.8<br>222<br>108 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 68.00 | 3090 | 15.874 |
| | | | | 984<br>3.2<br>99<br>99 | | 885<br>2.8<br>204<br>100 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 66.50 | 3360 | 17.265 |
| | | | | 1105<br>3.8<br>88<br>81 | | 995<br>3.3<br>180<br>79 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 90.30 | 4470 | 19.515 |
| | | | | 1247<br>3.7<br>78<br>72 | | 1122<br>3.2<br>160<br>69 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 90.40 | 4884 | 21.989 |
| | | | | 1459<br>3.2<br>67<br>67 | | 1313<br>2.8<br>137<br>67 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 61.20 | 4985 | 25.615 |
| 924<br>5.1<br>61<br>61 | | 927<br>4.1<br>125<br>69 | | 1599<br>3.0<br>61<br>61 | | 1438<br>2.7<br>126<br>63 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 52.20 | 5163 | 28.021 |
| 1044<br>4.9<br>54<br>54 | | 1047<br>3.9<br>111<br>61 | | 1805<br>2.9<br>54<br>54 | | 1623<br>2.5<br>112<br>55 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 51.30 | 5521 | 31.573 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.80 | 3935 | 35.741 |
| 1188<br>4.4<br>48<br>48 | | 1190<br>3.5<br>98<br>60 | | 2049<br>2.6<br>48<br>48 | 794<br>5.7<br>70<br>56 | 1842<br>2.3<br>99<br>54 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.80 | 5655 | 35.741 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.20 | 4434 | 40.272 |
| 1344<br>4.1<br>42<br>42 | | 1345<br>3.2<br>87<br>52 | | 2314<br>2.4<br>43<br>42 | 899<br>5.3<br>62<br>50 | 2080<br>2.1<br>87<br>47 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 36.20 | 5869 | 40.272 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

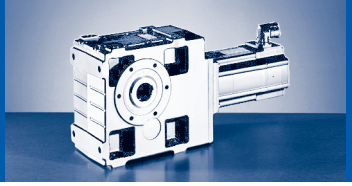
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 43.783 | 5800 | 27.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 49.333 | 5923 | 27.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 57.683 | 4370 | 17.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1144<br>3.7<br>29<br>29 | | 1012<br>3.6<br>60<br>50 | |
| 57.683 | 5972 | 17.70 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 64.995 | 4924 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1289<br>3.7<br>26<br>26 | | 1141<br>3.6<br>54<br>45 | |
| 64.995 | 5992 | 17.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 70.887 | 4497 | 13.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1416<br>3.1<br>24<br>24 | | 1252<br>3.0<br>49<br>44 | 608<br>5.7<br>58<br>44 |
| 70.887 | 5973 | 13.00 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 79.873 | 5068 | 12.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1595<br>3.1<br>21<br>21 | | 1411<br>3.0<br>44<br>39 | 685<br>5.7<br>52<br>39 |
| 79.873 | 6032 | 12.90 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 91.737 | 3979 | 8.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1015<br>3.8<br>18<br>18 | | 915<br>3.6<br>38<br>38 | | | | | |
| 91.737 | 4660 | 8.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1844<br>2.5<br>18<br>18 | 903<br>4.9<br>25<br>25 | 1631<br>2.4<br>38<br>34 | 797<br>4.6<br>45<br>34 |
| 91.737 | 5975 | 8.30 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 1464<br>3.8<br>39<br>39 | | 1461<br>3.3<br>80<br>55 | | 2519<br>2.3<br>39<br>39 | 975<br>5.4<br>57<br>46 | 2259<br>2.2<br>80<br>46 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.90 | 5800 | 43.783 |
| 1657<br>3.5<br>35<br>34 | | 1651<br>3.0<br>71<br>48 | | 2845<br>2.1<br>35<br>35 | 1105<br>4.9<br>51<br>41 | 2551<br>2.0<br>71<br>41 | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27.50 | 5923 | 49.333 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.70 | 4370 | 57.683 |
| 1947<br>3.0<br>30<br>29 | | 1939<br>2.6<br>61<br>42 | | 3337<br>1.8<br>30<br>30 | 1302<br>4.3<br>43<br>35 | 2991<br>1.7<br>61<br>35 | 890<br>5.2<br>72<br>35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.70 | 5972 | 57.683 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 4924 | 64.995 |
| 2202<br>2.7<br>26<br>26 | 955<br>5.8<br>36<br>36 | 2192<br>2.3<br>54<br>38 | | 3767<br>1.6<br>26<br>26 | 1474<br>3.8<br>38<br>31 | 3377<br>1.5<br>54<br>31 | 1010<br>4.6<br>64<br>31 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17.50 | 5992 | 64.995 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.00 | 4497 | 70.887 |
| 2407<br>2.4<br>24<br>24 | 1047<br>5.3<br>33<br>33 | 2396<br>2.1<br>50<br>35 | 766<br>6.0<br>59<br>35 | 4115<br>1.5<br>24<br>24 | 1613<br>3.5<br>35<br>28 | 3689<br>1.4<br>50<br>28 | 1106<br>4.2<br>59<br>28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.00 | 5973 | 70.887 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.90 | 5068 | 79.873 |
| 2720<br>2.2<br>21<br>21 | 1187<br>4.8<br>29<br>29 | 2706<br>1.9<br>44<br>31 | 869<br>5.4<br>52<br>31 | 4644<br>1.3<br>21<br>21 | 1825<br>3.1<br>31<br>25 | 4162<br>1.2<br>44<br>25 | 1252<br>3.8<br>52<br>25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.90 | 6032 | 79.873 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.30 | 3979 | 91.737 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.30 | 4660 | 91.737 |
| 3133<br>1.9<br>19<br>19 | 1374<br>4.1<br>26<br>26 | 3116<br>1.6<br>38<br>27 | 1006<br>4.6<br>45<br>27 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.30 | 5975 | 91.737 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

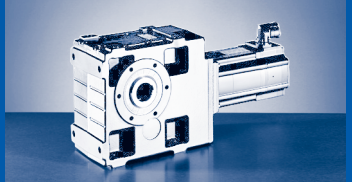
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 103.365 | 4483 | 8.21 | $M_2$ | 1143 | | 1031 | | | | | |
| | | | c | 3.8 | | 3.6 | | | | | |
| | | | $n_{2\,Eck}$ | 16 | | 33 | | | | | |
| | | | $n_{2\,th}$ | 16 | | 33 | | | | | |
| 103.365 | 5250 | 8.21 | $M_2$ | | | | | 2078 | 1017 | 1838 | 898 |
| | | | c | | | | | 2.5 | 4.9 | 2.4 | 4.6 |
| | | | $n_{2\,Eck}$ | | | | | 16 | 22 | 34 | 40 |
| | | | $n_{2\,th}$ | | | | | 16 | 22 | 30 | 30 |
| 103.365 | 6072 | 8.21 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 111.335 | 4042 | 6.05 | $M_2$ | 1240 | 673 | 1114 | | | | | |
| | | | c | 3.2 | 5.7 | 3.4 | | | | | |
| | | | $n_{2\,Eck}$ | 15 | 18 | 31 | | | | | |
| | | | $n_{2\,th}$ | 15 | 18 | 31 | | | | | |
| 111.335 | 4734 | 6.05 | $M_2$ | | | | | 2248 | 1104 | 1983 | 970 |
| | | | c | | | | | 2.1 | 4.2 | 2.2 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | 15 | 21 | 31 | 37 |
| | | | $n_{2\,th}$ | | | | | 15 | 21 | 28 | 28 |
| 111.335 | 5975 | 6.05 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 125.448 | 4555 | 5.99 | $M_2$ | 1397 | 759 | 1255 | | | | | |
| | | | c | 3.2 | 5.7 | 3.4 | | | | | |
| | | | $n_{2\,Eck}$ | 13 | 16 | 28 | | | | | |
| | | | $n_{2\,th}$ | 13 | 16 | 28 | | | | | |
| 125.448 | 5335 | 5.99 | $M_2$ | | | | | 2533 | 1244 | 2234 | 1093 |
| | | | c | | | | | 2.1 | 4.2 | 2.2 | 4.2 |
| | | | $n_{2\,Eck}$ | | | | | 13 | 18 | 28 | 33 |
| | | | $n_{2\,th}$ | | | | | 13 | 18 | 25 | 25 |
| 125.448 | 6072 | 5.99 | $M_2$ | | | | | | | | |
| | | | c | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | |
| 140.732 | 4107 | 3.96 | $M_2$ | 1578 | 862 | 1418 | 690 | | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | 12 | 14 | 25 | 29 | | | | |
| | | | $n_{2\,th}$ | 12 | 14 | 25 | 26 | | | | |
| 140.732 | 4811 | 3.96 | $M_2$ | | | | | 2854 | 1408 | 2518 | 1238 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 12 | 16 | 25 | 29 |
| | | | $n_{2\,th}$ | | | | | 12 | 16 | 22 | 22 |
| 158.571 | 4628 | 3.93 | $M_2$ | 1778 | 971 | 1597 | 778 | | | | |
| | | | c | 2.6 | 4.6 | 2.7 | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | 10 | 13 | 22 | 26 | | | | |
| | | | $n_{2\,th}$ | 10 | 13 | 22 | 23 | | | | |
| 158.571 | 5421 | 3.93 | $M_2$ | | | | | 3215 | 1587 | 2838 | 1395 |
| | | | c | | | | | 1.7 | 3.3 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | | | | 11 | 15 | 22 | 26 |
| | | | $n_{2\,th}$ | | | | | 11 | 15 | 20 | 20 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.21 | 4483 | 103.365 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.21 | 5250 | 103.365 |
| 3538<br>1.7<br>17<br>16 | 1555<br>3.7<br>23<br>23 | 3517<br>1.5<br>34<br>24 | 1139<br>4.2<br>40<br>24 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 8.21 | 6072 | 103.365 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.05 | 4042 | 111.335 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.05 | 4734 | 111.335 |
| 3816<br>1.6<br>15<br>15 | 1679<br>3.5<br>21<br>21 | 3787<br>1.5<br>32<br>22 | 1226<br>4.2<br>37<br>22 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.05 | 5975 | 111.335 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.99 | 4555 | 125.448 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.99 | 5335 | 125.448 |
| 4307<br>1.4<br>14<br>14 | 1899<br>3.1<br>19<br>19 | 4274<br>1.3<br>28<br>20 | 1388<br>3.8<br>33<br>20 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.99 | 6072 | 125.448 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.96 | 4107 | 140.732 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.96 | 4811 | 140.732 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.93 | 4628 | 158.571 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.93 | 5421 | 158.571 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

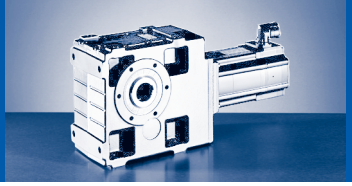
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-3A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 186.572 | 5975 | 7.07 | $M_2$ | 2086 | 1137 | 1874 | 910 | 3787 | 1871 | 3343 | 1645 |
| | | | c | 2.8 | 5.0 | 3.0 | 5.6 | 1.6 | 3.1 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | 9 | 11 | 19 | 22 | 9 | 12 | 19 | 22 |
| | | | $n_{2\,th}$ | 9 | 11 | 19 | 19 | 9 | 12 | 17 | 17 |
| 210.222 | 5892 | 7.05 | $M_2$ | 2359 | 1290 | 2120 | 1034 | 4276 | 2117 | 3775 | 1861 |
| | | | c | 2.5 | 4.4 | 2.6 | 4.9 | 1.4 | 2.7 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | 8 | 10 | 16 | 20 | 8 | 11 | 17 | 20 |
| | | | $n_{2\,th}$ | 8 | 10 | 16 | 17 | 8 | 11 | 15 | 15 |
| 226.431 | 5975 | 5.21 | $M_2$ | 2545 | 1393 | 2287 | 1117 | 4610 | 2284 | 4070 | 2008 |
| | | | c | 2.3 | 4.2 | 2.5 | 4.6 | 1.3 | 2.6 | 1.4 | 2.6 |
| | | | $n_{2\,Eck}$ | 7 | 9 | 15 | 18 | 7 | 10 | 15 | 18 |
| | | | $n_{2\,th}$ | 7 | 9 | 15 | 16 | 7 | 10 | 14 | 14 |
| 255.133 | 5892 | 5.20 | $M_2$ | 2877 | 1579 | 2586 | 1267 | 5203 | 2583 | 4594 | 2271 |
| | | | c | 2.0 | 3.6 | 2.2 | 4.1 | 1.1 | 2.3 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | 6 | 8 | 14 | 16 | 7 | 9 | 14 | 16 |
| | | | $n_{2\,th}$ | 6 | 8 | 14 | 14 | 7 | 9 | 12 | 12 |
| 286.219 | 5975 | 3.44 | $M_2$ | 3234 | 1778 | 2907 | 1427 | 5844 | 2904 | 5160 | 2553 |
| | | | c | 1.8 | 3.3 | 1.9 | 3.7 | 1.0 | 2.0 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | 6 | 7 | 12 | 14 | 6 | 8 | 12 | 14 |
| | | | $n_{2\,th}$ | 6 | 7 | 12 | 13 | 6 | 8 | 11 | 11 |
| 322.500 | 5892 | 3.43 | $M_2$ | 3653 | 2012 | 3284 | 1616 | | 3281 | | 2885 |
| | | | c | 1.6 | 2.9 | 1.7 | 3.2 | | 1.8 | | 1.8 |
| | | | $n_{2\,Eck}$ | 5 | 6 | 11 | 13 | | 7 | | 13 |
| | | | $n_{2\,th}$ | 5 | 6 | 11 | 11 | | 7 | | 10 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS11-3A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | 2856<br>2.1<br>13<br>13 | | 2093<br>2.5<br>22<br>13 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.07 | 5975 | 186.572 |
| | 3227<br>1.8<br>11<br>11 | | 2366<br>2.2<br>20<br>12 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.05 | 5892 | 210.222 |
| | 3480<br>1.7<br>10<br>10 | | 2552<br>2.1<br>18<br>11 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.21 | 5975 | 226.431 |
| | 3930<br>1.5<br>9<br>9 | | 2883<br>1.8<br>16<br>10 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.20 | 5892 | 255.133 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.44 | 5975 | 286.219 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.43 | 5892 | 322.500 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

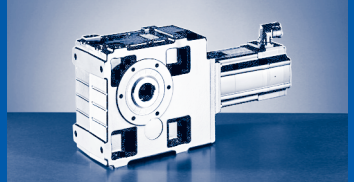
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 6072$ Nm

| GKS11-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 102.119 | 4012 | 7.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 570<br>5.8<br>33<br>33 | | | | | |
| 102.119 | 5655 | 7.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1096<br>4.9<br>16<br>16 | | 989<br>4.7<br>34<br>34 | |
| 115.063 | 5869 | 7.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1240<br>4.6<br>14<br>14 | | 1113<br>4.8<br>30<br>30 | |
| 125.095 | 5800 | 6.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1355<br>4.1<br>13<br>13 | | 1216<br>4.4<br>28<br>28 | |
| 140.952 | 5923 | 6.19 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1533<br>3.8<br>12<br>12 | | 1376<br>4.0<br>25<br>25 | |
| 153.242 | 5800 | 4.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1673<br>3.4<br>11<br>11 | | 1503<br>3.6<br>23<br>23 | |
| 172.667 | 5923 | 4.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 1892<br>3.1<br>10<br>9 | 1028<br>5.5<br>12<br>12 | 1699<br>3.3<br>20<br>20 | |
| 201.890 | 5972 | 3.74 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2222<br>2.6<br>8<br>8 | 1213<br>4.7<br>10<br>10 | 1997<br>2.8<br>17<br>17 | 971<br>5.3<br>20<br>18 |
| 227.481 | 5992 | 3.72 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2512<br>2.4<br>7<br>7 | 1374<br>4.2<br>9<br>9 | 2257<br>2.5<br>15<br>15 | 1101<br>4.7<br>18<br>16 |
| 248.106 | 5973 | 3.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 2746<br>2.2<br>7<br>7 | 1505<br>3.9<br>8<br>8 | 2468<br>2.3<br>14<br>14 | 1207<br>4.3<br>17<br>14 |
| 279.556 | 6032 | 3.34 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 3101<br>1.9<br>6<br>6 | 1703<br>3.5<br>7<br>7 | 2788<br>2.0<br>12<br>12 | 1366<br>3.9<br>15<br>13 |
| 322.931 | 5973 | 2.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 1859<br>3.0<br>11<br>11 | 1161<br>4.5<br>13<br>13 | 3593<br>1.7<br>5<br>5 | 1978<br>3.0<br>6<br>6 | 3230<br>1.8<br>11<br>11 | 1588<br>3.3<br>13<br>11 |
| 363.866 | 6032 | 2.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 2101<br>2.7<br>9<br>9 | 1315<br>4.0<br>11<br>11 | 4056<br>1.5<br>5<br>4 | 2236<br>2.7<br>6<br>6 | 3647<br>1.6<br>10<br>10 | 1796<br>3.0<br>11<br>10 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

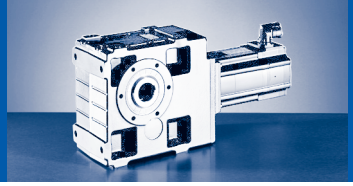


## $M_{2\,GN} \leq 6072$ Nm

| 17NC17 | 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | GKS11-4A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 21.50 | 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1680 | 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | $n_1$ | | | |
| 8.5 | 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | $I_{M\,400}$ | | | |
| 3.80 | 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.28 | 4012 | 102.119 |
| 2011<br>2.8<br>17<br>16 | 981<br>5.4<br>23<br>23 | 1779<br>2.7<br>34<br>30 | 866<br>5.1<br>40<br>30 | 3438<br>1.6<br>17<br>17 | 1512<br>3.6<br>23<br>23 | 3418<br>1.4<br>34<br>24 | 1107<br>4.0<br>41<br>24 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.28 | 5655 | 102.119 |
| 2272<br>2.5<br>15<br>15 | 1110<br>5.1<br>20<br>20 | 2003<br>2.7<br>30<br>27 | 975<br>5.2<br>36<br>27 | 3879<br>1.5<br>15<br>15 | 1707<br>3.4<br>20<br>20 | 3849<br>1.4<br>31<br>21 | 1247<br>4.1<br>36<br>21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.21 | 5869 | 115.063 |
| 2476<br>2.3<br>13<br>13 | 1213<br>4.6<br>18<br>18 | 2184<br>2.5<br>28<br>25 | 1066<br>4.7<br>33<br>25 | 4223<br>1.4<br>14<br>14 | 1862<br>3.1<br>19<br>19 | 4191<br>1.3<br>28<br>20 | 1361<br>3.7<br>33<br>20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.23 | 5800 | 125.095 |
| 2796<br>2.1<br>12<br>12 | 1373<br>4.2<br>16<br>16 | 2467<br>2.3<br>25<br>22 | 1207<br>4.3<br>29<br>22 | 4765<br>1.2<br>12<br>12 | 2105<br>2.8<br>17<br>17 | 4728<br>1.2<br>25<br>17 | 1539<br>3.4<br>29<br>17 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.19 | 5923 | 140.952 |
| 3047<br>1.9<br>11<br>11 | 1500<br>3.8<br>15<br>15 | 2689<br>2.0<br>23<br>20 | 1318<br>3.8<br>27<br>20 | 5187<br>1.1<br>11<br>11 | 2295<br>2.5<br>15<br>15 | 5147<br>1.1<br>23<br>16 | 1680<br>3.0<br>27<br>16 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.50 | 5800 | 153.242 |
| 3440<br>1.7<br>10<br>10 | 1696<br>3.4<br>13<br>13 | 3036<br>1.8<br>20<br>18 | 1491<br>3.5<br>24<br>18 | 5852<br>1.0<br>10<br>10 | 2593<br>2.3<br>14<br>14 | | 1898<br>2.8<br>24<br>14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.47 | 5923 | 172.667 |
| 4032<br>1.5<br>8<br>8 | 1994<br>2.9<br>11<br>11 | 3559<br>1.6<br>17<br>15 | 1752<br>3.0<br>20<br>15 | | 3042<br>1.9<br>12<br>12 | | 2229<br>2.4<br>21<br>12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.74 | 5972 | 201.890 |
| 4551<br>1.3<br>7<br>7 | 2254<br>2.6<br>10<br>10 | 4018<br>1.4<br>15<br>14 | 1982<br>2.7<br>18<br>14 | | 3435<br>1.7<br>10<br>10 | | 2519<br>2.1<br>18<br>11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.72 | 5992 | 227.481 |
| 4970<br>1.2<br>7<br>7 | 2465<br>2.4<br>9<br>9 | 4388<br>1.3<br>14<br>13 | 2167<br>2.4<br>17<br>13 | | 3753<br>1.6<br>9<br>9 | | 2752<br>1.9<br>17<br>10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.36 | 5973 | 248.106 |
| 5608<br>1.1<br>6<br>6 | 2785<br>2.1<br>8<br>8 | 4951<br>1.2<br>13<br>11 | 2448<br>2.2<br>15<br>11 | | 4236<br>1.4<br>8<br>8 | | 3108<br>1.7<br>15<br>9 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.34 | 6032 | 279.556 |
| | 3227<br>1.8<br>7<br>7 | | 2838<br>1.9<br>13<br>10 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.09 | 5973 | 322.931 |
| | 3644<br>1.6<br>6<br>6 | | 3204<br>1.7<br>11<br>9 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.08 | 6032 | 363.866 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



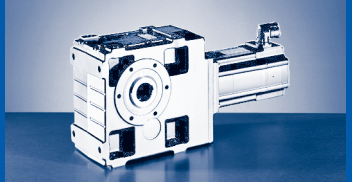


## $M_{2\,GN} \leq 6072$ Nm

| GKS11-4A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 395.787 | 5973 | 1.52 | $M_2$ | | 2292 | 1436 | 4418 | 2439 | 3973 | 1959 |
| | | | c | | 2.5 | 3.7 | 1.4 | 2.4 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 9 | 10 | 4 | 5 | 9 | 10 |
| | | | $n_{2\,th}$ | | 9 | 10 | 4 | 5 | 9 | 9 |
| 445.958 | 6032 | 1.52 | $M_2$ | | 2589 | 1625 | 4986 | 2755 | 4484 | 2214 |
| | | | c | | 2.2 | 3.3 | 1.2 | 2.2 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | 8 | 9 | 4 | 5 | 8 | 9 |
| | | | $n_{2\,th}$ | | 8 | 9 | 4 | 4 | 8 | 8 |
| 512.196 | 5975 | 1.39 | $M_2$ | | 2984 | 1876 | 5736 | 3175 | 5159 | 2553 |
| | | | c | | 1.9 | 2.8 | 1.0 | 1.9 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 7 | 8 | 3 | 4 | 7 | 8 |
| | | | $n_{2\,th}$ | | 7 | 8 | 3 | 4 | 7 | 7 |
| 577.122 | 6072 | 1.38 | $M_2$ | | 3369 | 2120 | | 3584 | | 2882 |
| | | | c | | 1.7 | 2.6 | | 1.7 | | 1.9 |
| | | | $n_{2\,Eck}$ | | 6 | 7 | | 4 | | 7 |
| | | | $n_{2\,th}$ | | 6 | 7 | | 3 | | 6 |
| 621.619 | 5975 | 1.31 | $M_2$ | | 3634 | 2289 | | 3866 | | 3110 |
| | | | c | | 1.6 | 2.3 | | 1.5 | | 1.7 |
| | | | $n_{2\,Eck}$ | | 6 | 7 | | 3 | | 7 |
| | | | $n_{2\,th}$ | | 5 | 7 | | 3 | | 6 |
| 700.416 | 6072 | 1.31 | $M_2$ | | 4102 | 2585 | | 4364 | | 3511 |
| | | | c | | 1.4 | 2.1 | | 1.4 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 5 | 6 | | 3 | | 6 |
| | | | $n_{2\,th}$ | | 5 | 6 | | 3 | | 5 |
| 816.455 | 5975 | 0.82 | $M_2$ | 1483 | 4793 | 3024 | | 5098 | | 4103 |
| | | | c | 3.6 | 1.2 | 1.8 | | 1.2 | | 1.3 |
| | | | $n_{2\,Eck}$ | 5 | 4 | 5 | | 3 | | 5 |
| | | | $n_{2\,th}$ | 5 | 4 | 5 | | 2 | | 4 |
| 919.949 | 6072 | 0.82 | $M_2$ | 1677 | 5407 | 3414 | | 5752 | | 4630 |
| | | | c | 3.2 | 1.1 | 1.6 | | 1.1 | | 1.2 |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | | 2 | | 5 |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | | 2 | | 4 |
| 990.879 | 5975 | 0.60 | $M_2$ | 1812 | | 3683 | | | | 4992 |
| | | | c | 3.0 | | 1.5 | | | | 1.1 |
| | | | $n_{2\,Eck}$ | 4 | | 4 | | | | 4 |
| | | | $n_{2\,th}$ | 4 | | 4 | | | | 4 |
| 1116.484 | 6072 | 0.60 | $M_2$ | 2048 | | 4156 | | | | |
| | | | c | 2.7 | | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 4 | | 4 | | | | |
| | | | $n_{2\,th}$ | 4 | | 4 | | | | |
| 1252.516 | 5975 | 0.39 | $M_2$ | 2306 | | 4670 | | | | |
| | | | c | 2.3 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 3 | | 3 | | | | |
| | | | $n_{2\,th}$ | 3 | | 3 | | | | |
| 1411.286 | 6072 | 0.39 | $M_2$ | 2604 | | 5269 | | | | |
| | | | c | 2.1 | | 1.0 | | | | |
| | | | $n_{2\,Eck}$ | 3 | | 3 | | | | |
| | | | $n_{2\,th}$ | 3 | | 3 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 6072$ Nm

| 17NC17 | 17NC23 | 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | GKS11-4A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 21.50 | 10.80 | 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1680 | 2300 | 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | $n_1$ | | | |
| 8.5 | 5.5 | 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | $I_{M\,400}$ | | | |
| 3.80 | 2.60 | 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | $P_N$ | | | |
| 36.04 | 36.04 | 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | $J_M$ | | | |
| | 3970<br>1.5<br>6<br>6 | | 3491<br>1.5<br>10<br>8 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 5973 | 395.787 |
| | 4481<br>1.3<br>5<br>5 | | 3940<br>1.4<br>9<br>7 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.52 | 6032 | 445.958 |
| | 5156<br>1.2<br>5<br>4 | | 4534<br>1.2<br>8<br>6 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.39 | 5975 | 512.196 |
| | 5817<br>1.0<br>4<br>4 | | 5116<br>1.1<br>7<br>5 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.38 | 6072 | 577.122 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.31 | 5975 | 621.619 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.31 | 6072 | 700.416 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 5975 | 816.455 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.82 | 6072 | 919.949 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 5975 | 990.879 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.60 | 6072 | 1116.484 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 5975 | 1252.516 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 6072 | 1411.286 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

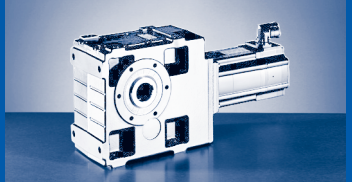
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11784$ Nm

| GKS14-3A | | | | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 |
| 16.646 | 5932 | 198.00 | $M_2$ | | | | | 922 | | 832 | |
| | | | c | | | | | 5.8 | | 5.1 | |
| | | | $n_{2\,Eck}$ | | | | | 103 | | 212 | |
| | | | $n_{2\,th}$ | | | | | 102 | | 99 | |
| 18.311 | 6158 | 173.00 | $M_2$ | | | | | 1017 | | 918 | |
| | | | c | | | | | 5.5 | | 4.8 | |
| | | | $n_{2\,Eck}$ | | | | | 93 | | 192 | |
| | | | $n_{2\,th}$ | | | | | 93 | | 92 | |
| 24.696 | 8801 | 183.00 | $M_2$ | | | | | 1367 | | 1234 | |
| | | | c | | | | | 5.8 | | 5.1 | |
| | | | $n_{2\,Eck}$ | | | | | 69 | | 143 | |
| | | | $n_{2\,th}$ | | | | | 69 | | 67 | |
| 27.165 | 9135 | 159.00 | $M_2$ | | | | | 1509 | | 1362 | |
| | | | c | | | | | 5.5 | | 4.8 | |
| | | | $n_{2\,Eck}$ | | | | | 63 | | 130 | |
| | | | $n_{2\,th}$ | | | | | 63 | | 62 | |
| 30.609 | 10132 | 156.00 | $M_2$ | | | | | 1702 | | 1536 | |
| | | | c | | | | | 5.4 | | 4.8 | |
| | | | $n_{2\,Eck}$ | | | | | 56 | | 115 | |
| | | | $n_{2\,th}$ | | | | | 56 | | 55 | |
| 34.692 | 10019 | 111.00 | $M_2$ | | | | | 1944 | | 1752 | |
| | | | c | | | | | 4.7 | | 4.1 | |
| | | | $n_{2\,Eck}$ | | | | | 49 | | 102 | |
| | | | $n_{2\,th}$ | | | | | 49 | | 55 | |
| 39.089 | 10937 | 109.00 | $M_2$ | | | | | 2194 | | 1977 | |
| | | | c | | | | | 4.6 | | 4.0 | |
| | | | $n_{2\,Eck}$ | | | | | 44 | | 90 | |
| | | | $n_{2\,th}$ | | | | | 44 | | 48 | |
| 42.531 | 10787 | 82.40 | $M_2$ | | | | | 2394 | | 2149 | |
| | | | c | | | | | 4.3 | | 4.1 | |
| | | | $n_{2\,Eck}$ | | | | | 40 | | 83 | |
| | | | $n_{2\,th}$ | | | | | 40 | | 47 | |
| 47.923 | 11261 | 81.10 | $M_2$ | | | | | 2706 | | 2429 | |
| | | | c | | | | | 4.0 | | 3.9 | |
| | | | $n_{2\,Eck}$ | | | | | 36 | | 74 | |
| | | | $n_{2\,th}$ | | | | | 36 | | 42 | |
| 56.251 | 10874 | 54.20 | $M_2$ | 1845 | | 1846 | | | | | |
| | | | c | 5.6 | | 4.8 | | | | | |
| | | | $n_{2\,Eck}$ | 30 | | 62 | | | | | |
| | | | $n_{2\,th}$ | 30 | | 44 | | | | | |
| 56.251 | 11522 | 54.20 | $M_2$ | | | | | 3194 | | 2866 | |
| | | | c | | | | | 3.5 | | 3.4 | |
| | | | $n_{2\,Eck}$ | | | | | 30 | | 63 | |
| | | | $n_{2\,th}$ | | | | | 30 | | 36 | |
| 63.382 | 11477 | 53.50 | $M_2$ | 2088 | | 2087 | | 3615 | | 3243 | |
| | | | c | 5.3 | | 4.5 | | 3.1 | | 3.0 | |
| | | | $n_{2\,Eck}$ | 27 | | 55 | | 27 | | 56 | |
| | | | $n_{2\,th}$ | 27 | | 39 | | 27 | | 32 | |
| 68.942 | 11454 | 38.90 | $M_2$ | 2282 | | 2279 | | 3943 | | 3537 | |
| | | | c | 4.8 | | 4.2 | | 2.9 | | 2.7 | |
| | | | $n_{2\,Eck}$ | 25 | | 51 | | 25 | | 51 | |
| | | | $n_{2\,th}$ | 25 | | 36 | | 25 | | 29 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11784$ Nm

| GKS14-3A | | | | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 |
| | | | $n_1$ | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 |
| | | | $I_{M\,400}$ | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 |
| | | | $P_N$ | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 |
| | | | $J_M$ | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 |
| 77.681 | 11520 | 38.40 | $M_2$ | 2585 | | 2580 | | 4457 | | 3997 | |
| | | | c | 4.3 | | 3.7 | | 2.5 | | 2.4 | |
| | | | $n_{2\,Eck}$ | 22 | | 45 | | 22 | | 45 | |
| | | | $n_{2\,th}$ | 22 | | 32 | | 22 | | 26 | |
| 90.551 | 11488 | 25.10 | $M_2$ | 3034 | | 3025 | | 5216 | 2022 | 4677 | |
| | | | c | 3.7 | | 3.2 | | 2.2 | 5.2 | 2.1 | |
| | | | $n_{2\,Eck}$ | 19 | | 39 | | 19 | 28 | 39 | |
| | | | $n_{2\,th}$ | 19 | | 27 | | 19 | 22 | 22 | |
| 102.029 | 11639 | 24.90 | $M_2$ | 3432 | | 3421 | | 5891 | 2292 | 5282 | 1566 |
| | | | c | 3.3 | | 2.9 | | 2.0 | 4.7 | 1.9 | 5.7 |
| | | | $n_{2\,Eck}$ | 17 | | 34 | | 17 | 24 | 35 | 41 |
| | | | $n_{2\,th}$ | 17 | | 24 | | 17 | 20 | 20 | 20 |
| 109.896 | 11784 | 18.30 | $M_2$ | 3705 | | 3691 | | 6353 | 2476 | 5696 | 1693 |
| | | | c | 3.1 | | 2.7 | | 1.8 | 4.4 | 1.8 | 5.4 |
| | | | $n_{2\,Eck}$ | 16 | | 32 | | 16 | 23 | 32 | 38 |
| | | | $n_{2\,th}$ | 15 | | 22 | | 16 | 18 | 18 | 18 |
| 123.826 | 11639 | 18.10 | $M_2$ | 4192 | | 4163 | | 7175 | 2801 | 6421 | 1911 |
| | | | c | 2.7 | | 2.6 | | 1.6 | 4.0 | 1.7 | 5.2 |
| | | | $n_{2\,Eck}$ | 14 | | 28 | | 14 | 20 | 28 | 34 |
| | | | $n_{2\,th}$ | 14 | | 20 | | 14 | 16 | 16 | 16 |
| 138.913 | 11784 | 12.00 | $M_2$ | 4716 | 2049 | 4682 | | | | | |
| | | | c | 2.5 | 5.5 | 2.4 | | | | | |
| | | | $n_{2\,Eck}$ | 12 | 17 | 25 | | | | | |
| | | | $n_{2\,th}$ | 12 | 17 | 18 | | | | | |
| 156.522 | 11639 | 11.90 | $M_2$ | 5331 | 2326 | 5292 | 1693 | | | | |
| | | | c | 2.2 | 4.8 | 2.1 | 5.9 | | | | |
| | | | $n_{2\,Eck}$ | 11 | 15 | 22 | 27 | | | | |
| | | | $n_{2\,th}$ | 11 | 15 | 16 | 16 | | | | |
| 186.572 | 11609 | 21.60 | $M_2$ | 6379 | 2797 | 6331 | 2039 | 10874 | 4283 | 9734 | 2935 |
| | | | c | 1.8 | 4.0 | 1.7 | 4.9 | 1.1 | 2.7 | 1.1 | 3.5 |
| | | | $n_{2\,Eck}$ | 9 | 13 | 19 | 22 | 9 | 13 | 19 | 22 |
| | | | $n_{2\,th}$ | 9 | 13 | 13 | 13 | 9 | 11 | 11 | 11 |
| 210.222 | 11555 | 21.50 | $M_2$ | 7203 | 3167 | 7149 | 2312 | | 4842 | | 3321 |
| | | | c | 1.6 | 3.6 | 1.5 | 4.3 | | 2.4 | | 3.1 |
| | | | $n_{2\,Eck}$ | 8 | 11 | 17 | 20 | | 12 | | 20 |
| | | | $n_{2\,th}$ | 8 | 11 | 12 | 12 | | 10 | | 10 |
| 226.431 | 11609 | 15.90 | $M_2$ | 7767 | 3420 | 7708 | 2498 | | 5224 | | 3585 |
| | | | c | 1.5 | 3.3 | 1.4 | 4.0 | | 2.2 | | 2.9 |
| | | | $n_{2\,Eck}$ | 8 | 10 | 16 | 18 | | 11 | | 18 |
| | | | $n_{2\,th}$ | 8 | 10 | 11 | 11 | | 9 | | 9 |
| 255.133 | 11555 | 15.80 | $M_2$ | 8768 | 3870 | 8701 | 2830 | | 5903 | | 4054 |
| | | | c | 1.3 | 2.9 | 1.3 | 3.6 | | 1.9 | | 2.5 |
| | | | $n_{2\,Eck}$ | 7 | 9 | 14 | 16 | | 10 | | 16 |
| | | | $n_{2\,th}$ | 7 | 9 | 10 | 10 | | 8 | | 8 |
| 286.219 | 11609 | 10.50 | $M_2$ | 9850 | 4356 | 9774 | 3187 | | | | |
| | | | c | 1.2 | 2.6 | 1.1 | 3.2 | | | | |
| | | | $n_{2\,Eck}$ | 6 | 8 | 12 | 15 | | | | |
| | | | $n_{2\,th}$ | 6 | 8 | 9 | 9 | | | | |
| 322.500 | 11555 | 10.50 | $M_2$ | 11115 | 4924 | | 3605 | | | | |
| | | | c | 1.0 | 2.3 | | 2.8 | | | | |
| | | | $n_{2\,Eck}$ | 5 | 7 | | 13 | | | | |
| | | | $n_{2\,th}$ | 5 | 7 | | 8 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

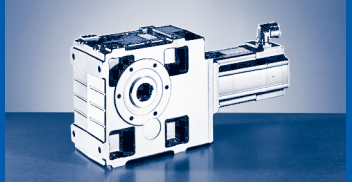
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11609$ Nm

| GKS14-4A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 97.467 | 8508 | 23.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 1886<br>4.4<br>17<br>17 | | 1669<br>4.2<br>36<br>32 | |
| 97.467 | 10019 | 23.47 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 109.822 | 9586 | 23.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2126<br>4.4<br>15<br>15 | | 1881<br>4.2<br>32<br>28 | |
| 109.822 | 10937 | 23.23 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 119.493 | 10431 | 19.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2313<br>4.4<br>14<br>14 | | 2036<br>4.7<br>29<br>26 | |
| 119.493 | 10787 | 19.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | |
| 134.640 | 11261 | 19.78 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 2611<br>4.2<br>13<br>12 | | 2299<br>4.5<br>26<br>23 | |
| 158.039 | 11522 | 16.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 3083<br>3.6<br>11<br>11 | | 2716<br>3.9<br>22<br>20 | |
| 178.072 | 11477 | 16.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1894<br>5.8<br>9<br>9 | | | | 3490<br>3.2<br>9<br>9 | | 3076<br>3.5<br>20<br>17 | |
| 193.754 | 11522 | 12.08 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 3808<br>3.0<br>9<br>9 | 1851<br>5.9<br>12<br>12 | 3357<br>3.2<br>18<br>16 | |
| 218.315 | 11477 | 12.02 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 4307<br>2.6<br>8<br>8 | 2102<br>5.2<br>11<br>11 | 3798<br>2.8<br>16<br>14 | 1847<br>5.3<br>19<br>14 |
| 237.467 | 11454 | 10.87 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 4696<br>2.4<br>7<br>7 | 2298<br>4.8<br>10<br>10 | 4141<br>2.6<br>15<br>13 | 2019<br>4.9<br>17<br>13 |
| 267.568 | 11520 | 10.83 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 5306<br>2.2<br>6<br>6 | 2604<br>4.3<br>9<br>9 | 4680<br>2.3<br>13<br>12 | 2288<br>4.4<br>15<br>12 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11609$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS14-4A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.47 | 8508 | 97.467 |
| 3232<br>3.0<br>17<br>17 | | 3220<br>2.6<br>36<br>25 | | 5541<br>1.8<br>18<br>18 | 2160<br>4.3<br>26<br>21 | 4968<br>1.7<br>36<br>21 | 1477<br>5.2<br>43<br>21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.47 | 10019 | 97.467 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.23 | 9586 | 109.822 |
| 3645<br>2.9<br>16<br>15 | | 3631<br>2.5<br>32<br>22 | | 6246<br>1.7<br>16<br>16 | 2437<br>4.2<br>23<br>18 | 5600<br>1.7<br>32<br>18 | 1667<br>5.1<br>38<br>18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 23.23 | 10937 | 109.822 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.94 | 10431 | 119.493 |
| 3978<br>2.7<br>14<br>14 | 1723<br>5.9<br>20<br>20 | 3950<br>2.5<br>29<br>20 | | 6809<br>1.6<br>14<br>14 | 2659<br>3.9<br>21<br>17 | 6093<br>1.7<br>30<br>17 | 1814<br>5.1<br>35<br>17 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.94 | 10787 | 119.493 |
| 4492<br>2.5<br>13<br>13 | 1951<br>5.5<br>17<br>17 | 4460<br>2.4<br>26<br>18 | | 7681<br>1.5<br>13<br>13 | 3005<br>3.6<br>19<br>15 | 6874<br>1.5<br>26<br>15 | 2052<br>4.7<br>31<br>15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 19.78 | 11261 | 134.640 |
| 5291<br>2.2<br>11<br>11 | 2308<br>4.8<br>15<br>15 | 5252<br>2.1<br>22<br>15 | 1679<br>5.8<br>26<br>15 | 9034<br>1.3<br>11<br>11 | 3546<br>3.2<br>16<br>13 | 8086<br>1.4<br>22<br>13 | 2425<br>4.1<br>26<br>13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.44 | 11522 | 158.039 |
| 5977<br>1.9<br>10<br>10 | 2616<br>4.2<br>13<br>13 | 5933<br>1.8<br>20<br>14 | 1906<br>5.2<br>23<br>14 | 10195<br>1.1<br>10<br>10 | 4011<br>2.8<br>14<br>11 | 9126<br>1.2<br>20<br>11 | 2747<br>3.6<br>23<br>11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 16.35 | 11477 | 178.072 |
| 6514<br>1.8<br>9<br>9 | 2857<br>3.9<br>12<br>12 | 6465<br>1.7<br>18<br>13 | 2083<br>4.8<br>21<br>13 | 11104<br>1.0<br>9<br>9 | 4375<br>2.6<br>13<br>10 | 9940<br>1.1<br>18<br>10 | 2998<br>3.4<br>22<br>10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.08 | 11522 | 193.754 |
| 7356<br>1.6<br>8<br>8 | 3235<br>3.5<br>11<br>11 | 7300<br>1.5<br>16<br>11 | 2362<br>4.2<br>19<br>11 | | 4945<br>2.3<br>11<br>9 | | 3392<br>3.0<br>19<br>9 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 12.02 | 11477 | 218.315 |
| 8012<br>1.4<br>7<br>7 | 3530<br>3.2<br>10<br>10 | 7951<br>1.4<br>15<br>10 | 2579<br>3.9<br>18<br>10 | | 5390<br>2.1<br>11<br>8 | | 3700<br>2.7<br>18<br>8 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.87 | 11454 | 237.467 |
| 9043<br>1.3<br>6<br>6 | 3993<br>2.8<br>9<br>9 | 8973<br>1.2<br>13<br>9 | 2919<br>3.5<br>16<br>9 | | 6088<br>1.9<br>9<br>8 | | 4182<br>2.4<br>16<br>8 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10.83 | 11520 | 267.568 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

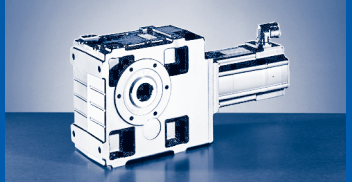
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11609$ Nm

| GKS14-4A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 321.729 | 11454 | 6.42 | $M_2$ | 3521 | 1912 | 3162 | | 6405 | 3156 | 5652 | 2774 |
| | | | c | 3.2 | 5.7 | 3.4 | | 1.8 | 3.5 | 1.9 | 3.6 |
| | | | $n_{2\,Eck}$ | 5 | 6 | 11 | | 5 | 7 | 11 | 13 |
| | | | $n_{2\,th}$ | 5 | 6 | 11 | | 5 | 7 | 10 | 10 |
| 362.512 | 11520 | 6.40 | $M_2$ | 3982 | 2169 | 3577 | 1736 | 7232 | 3571 | 6383 | 3139 |
| | | | c | 2.8 | 5.1 | 3.0 | 5.7 | 1.6 | 3.2 | 1.7 | 3.2 |
| | | | $n_{2\,Eck}$ | 5 | 6 | 10 | 11 | 5 | 6 | 10 | 11 |
| | | | $n_{2\,th}$ | 5 | 6 | 10 | 10 | 5 | 6 | 9 | 9 |
| 390.671 | 11454 | 4.75 | $M_2$ | 4302 | 2348 | 3865 | 1880 | 7804 | 3859 | 6888 | 3392 |
| | | | c | 2.6 | 4.7 | 2.8 | 5.2 | 1.5 | 2.9 | 1.6 | 3.0 |
| | | | $n_{2\,Eck}$ | 4 | 5 | 9 | 11 | 4 | 6 | 9 | 11 |
| | | | $n_{2\,th}$ | 4 | 5 | 9 | 9 | 4 | 6 | 8 | 8 |
| 440.193 | 11520 | 4.73 | $M_2$ | 4862 | 2660 | 4369 | 2132 | 8808 | 4363 | 7775 | 3835 |
| | | | c | 2.3 | 4.2 | 2.5 | 4.7 | 1.3 | 2.6 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | 4 | 5 | 8 | 9 | 4 | 5 | 8 | 9 |
| | | | $n_{2\,th}$ | 4 | 5 | 8 | 8 | 4 | 5 | 7 | 7 |
| 513.121 | 11488 | 4.33 | $M_2$ | 5688 | 3121 | 5112 | 2504 | 10288 | 5107 | 9083 | 4489 |
| | | | c | 2.0 | 3.6 | 2.1 | 4.0 | 1.1 | 2.2 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | 3 | 4 | 7 | 8 | 3 | 5 | 7 | 8 |
| | | | $n_{2\,th}$ | 3 | 4 | 7 | 7 | 3 | 4 | 6 | 6 |
| 578.164 | 11639 | 4.32 | $M_2$ | 6423 | 3531 | 5774 | 2834 | 11606 | 5768 | 10248 | 5071 |
| | | | c | 1.8 | 3.2 | 1.9 | 3.6 | 1.0 | 2.0 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | 3 | 4 | 6 | 7 | 3 | 4 | 6 | 7 |
| | | | $n_{2\,th}$ | 3 | 3 | 6 | 6 | 3 | 4 | 5 | 5 |
| 622.742 | 11488 | 4.12 | $M_2$ | 6929 | 3814 | 6230 | 3063 | | 6224 | | 5472 |
| | | | c | 1.7 | 3.0 | 1.8 | 3.3 | | 1.8 | | 1.9 |
| | | | $n_{2\,Eck}$ | 3 | 3 | 6 | 7 | | 4 | | 7 |
| | | | $n_{2\,th}$ | 3 | 3 | 6 | 6 | | 4 | | 5 |
| 701.681 | 11639 | 4.12 | $M_2$ | 7822 | 4312 | 7033 | 3463 | | 7027 | | 6179 |
| | | | c | 1.5 | 2.7 | 1.6 | 3.0 | | 1.7 | | 1.7 |
| | | | $n_{2\,Eck}$ | 2 | 3 | 5 | 6 | | 3 | | 6 |
| | | | $n_{2\,th}$ | 2 | 3 | 5 | 5 | | 3 | | 4 |
| 805.901 | 11488 | 2.62 | $M_2$ | 9003 | 4973 | 8096 | 3996 | | 8091 | | 7114 |
| | | | c | 1.3 | 2.3 | 1.4 | 2.6 | | 1.4 | | 1.5 |
| | | | $n_{2\,Eck}$ | 2 | 3 | 4 | 5 | | 3 | | 5 |
| | | | $n_{2\,th}$ | 2 | 2 | 4 | 4 | | 3 | | 4 |
| 908.058 | 11639 | 2.62 | $M_2$ | 10159 | 5617 | 9136 | 4515 | | 9130 | | 8029 |
| | | | c | 1.1 | 2.1 | 1.2 | 2.3 | | 1.3 | | 1.3 |
| | | | $n_{2\,Eck}$ | 2 | 2 | 4 | 5 | | 3 | | 5 |
| | | | $n_{2\,th}$ | 2 | 2 | 4 | 4 | | 3 | | 3 |
| 978.071 | 11488 | 1.91 | $M_2$ | 10953 | 6061 | 9851 | 4873 | | 9846 | | 8658 |
| | | | c | 1.1 | 1.9 | 1.1 | 2.1 | | 1.2 | | 1.2 |
| | | | $n_{2\,Eck}$ | 2 | 2 | 4 | 4 | | 2 | | 4 |
| | | | $n_{2\,th}$ | 2 | 2 | 4 | 4 | | 2 | | 3 |
| 1102.052 | 11639 | 1.91 | $M_2$ | | 6843 | | 5504 | | 11108 | | 9768 |
| | | | c | | 1.7 | | 1.9 | | 1.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | | 2 | | 4 | | 2 | | 4 |
| | | | $n_{2\,th}$ | | 2 | | 3 | | 2 | | 3 |
| 1236.326 | 11488 | 1.26 | $M_2$ | | 7694 | | 6190 | | | | |
| | | | c | | 1.5 | | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | | 2 | | 3 | | | | |
| | | | $n_{2\,th}$ | | 2 | | 3 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 11609$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS14-4A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 10899<br>1.1<br>5<br>5 | 4826<br>2.3<br>7<br>7 | 10814<br>1.0<br>11<br>8 | 3533<br>2.9<br>13<br>8 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.42 | 11454 | 321.729 |
| | 5453<br>2.1<br>7<br>6 | | 3995<br>2.6<br>12<br>7 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 6.40 | 11520 | 362.512 |
| | 5887<br>1.9<br>6<br>6 | | 4314<br>2.4<br>11<br>6 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.75 | 11454 | 390.671 |
| | 6648<br>1.7<br>5<br>5 | | 4874<br>2.1<br>9<br>6 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.73 | 11520 | 440.193 |
| | 7770<br>1.5<br>5<br>5 | | 5700<br>1.8<br>8<br>5 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.33 | 11488 | 513.121 |
| | 8769<br>1.3<br>4<br>4 | | 6436<br>1.6<br>7<br>4 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.32 | 11639 | 578.164 |
| | 9456<br>1.2<br>4<br>4 | | 6942<br>1.5<br>7<br>4 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.12 | 11488 | 622.742 |
| | 10669<br>1.1<br>3<br>3 | | 7834<br>1.3<br>6<br>3 | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.12 | 11639 | 701.681 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.62 | 11488 | 805.901 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.62 | 11639 | 908.058 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.91 | 11488 | 978.071 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.91 | 11639 | 1102.052 |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 11488 | 1236.326 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

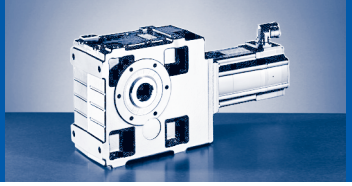
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 11609$ Nm

| GKS14-4A | | | | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 1393.043 | 11639 | 1.26 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 8683<br>1.3<br>1<br>1 | | 6987<br>1.5<br>3<br>3 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

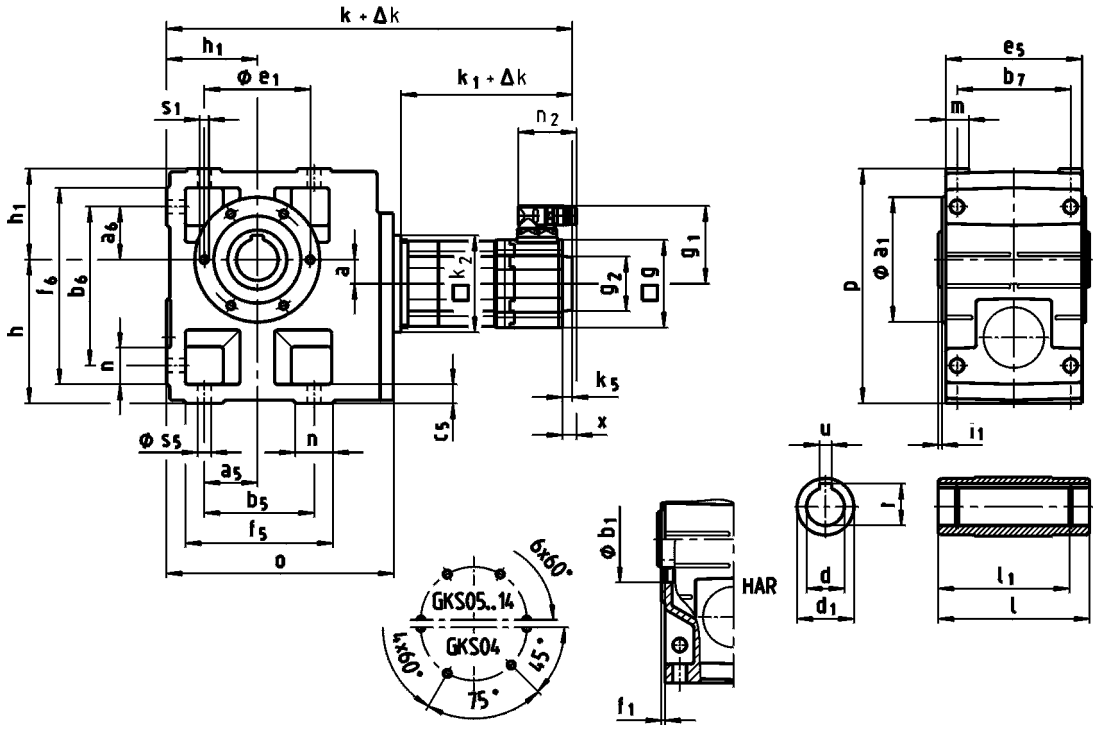


## $M_{2\,GN} \leq 11609$ Nm

| 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC35 | 21XC42 | GKS14-4A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | | | | |
| 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 55.00 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 3520 | 4160 | $n_1$ | | | |
| 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 42.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 20.30 | 7.40 | $P_N$ | | | |
| 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 11639 | 1393.043 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

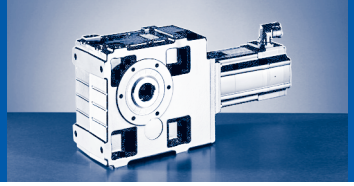



## GKS□□-3S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | | | | | | | |
| GKS05... | k | 367 | 397 | 427 | 419 | 439 | 459 | 499 | 436 | | 476 | | | 516 | |
| GKS06... | k | 423 | 453 | 483 | 475 | 495 | 515 | 555 | 492 | | 532 | | | 572 | |
| GKS07... | k | | | | 531 | 551 | 571 | 611 | 548 | | 588 | | | 628 | |
| GKS09... | k | | | | | | | | 619 | | 659 | | | 699 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS05: 12DC20 ... 12LC41



## GKS□□-3S H□R ... RSO

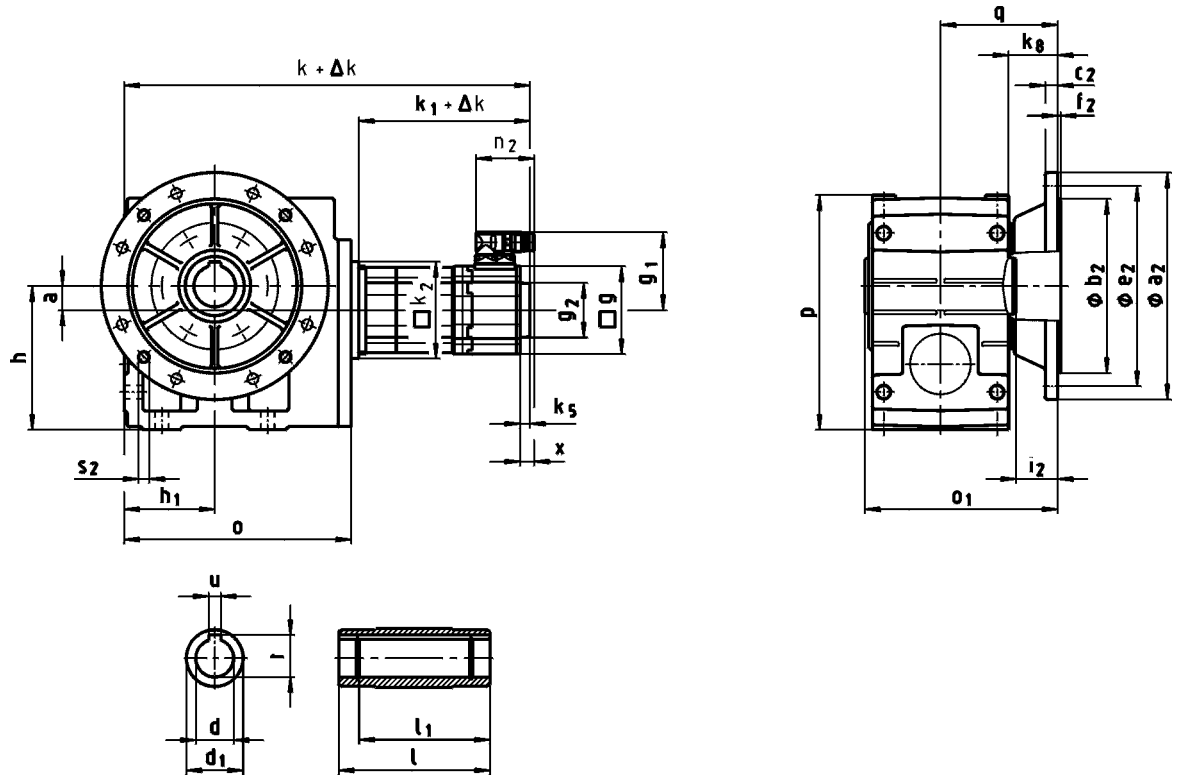
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 508 | | 548 | | 588 | | 628 | | | | | | | |
| GKS07... | k | 564 | | 604 | | 644 | | 684 | | 603 | | 643 | | 703 | |
| GKS09... | k | 635 | | 675 | | 715 | | 755 | | 674 | | 714 | | 774 | |
| GKS11... | k | 726 | | 766 | | 806 | | 846 | | 765 | | 805 | | 865 | |
| GKS14... | k | | | | | | | | | 864 | | 904 | | 964 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-3S H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 171 | 100 | 71 | 20 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 21 | 22 | 9 |
| **GKS05...** | 232 | 205 | 125 | 80 | 23 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | | 29 | 11 |
| **GKS06...** | 291 | 250 | 150 | 100 | 28 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 354 | 310 | 190 | 120 | 34 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 429 | 386 | 236 | 150 | 41 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 527 | 485 | 300 | 185 | 54 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 636 | 605 | 375 | 230 | 67 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | |
| **GKS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GKS05...** | 35 | 140 | 50 | 124 | 10 | 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GKS11...** | 80 | 290 | 105 | 250 | 22 | 85.4 | 240 | 140 | 205 | | 6 | M20x32 |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |

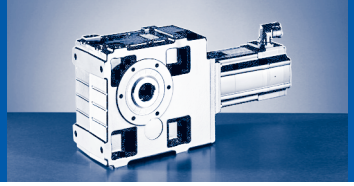



## GKS□□-3S HAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | | | | | | | |
| GKS05... | k | 367 | 397 | 427 | 419 | 439 | 459 | 499 | 436 | | 476 | | | 516 | |
| GKS06... | k | 423 | 453 | 483 | 475 | 495 | 515 | 555 | 492 | | 532 | | | 572 | |
| GKS07... | k | | | | 531 | 551 | 571 | 611 | 548 | | 588 | | | 628 | |
| GKS09... | k | | | | | | | | 619 | | 659 | | | 699 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS05: 12DC20 ... 12LC41



## GKS□□-3S HAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 508 | | 548 | | 588 | | 628 | | | | | | | |
| GKS07... | k | 564 | | 604 | | 644 | | 684 | | 603 | | 643 | | 703 | |
| GKS09... | k | 635 | | 675 | | 715 | | 755 | | 674 | | 714 | | 774 | |
| GKS11... | k | 726 | | 766 | | 806 | | 846 | | 765 | | 805 | | 865 | |
| GKS14... | k | | | | | | | | | 864 | | 904 | | 964 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

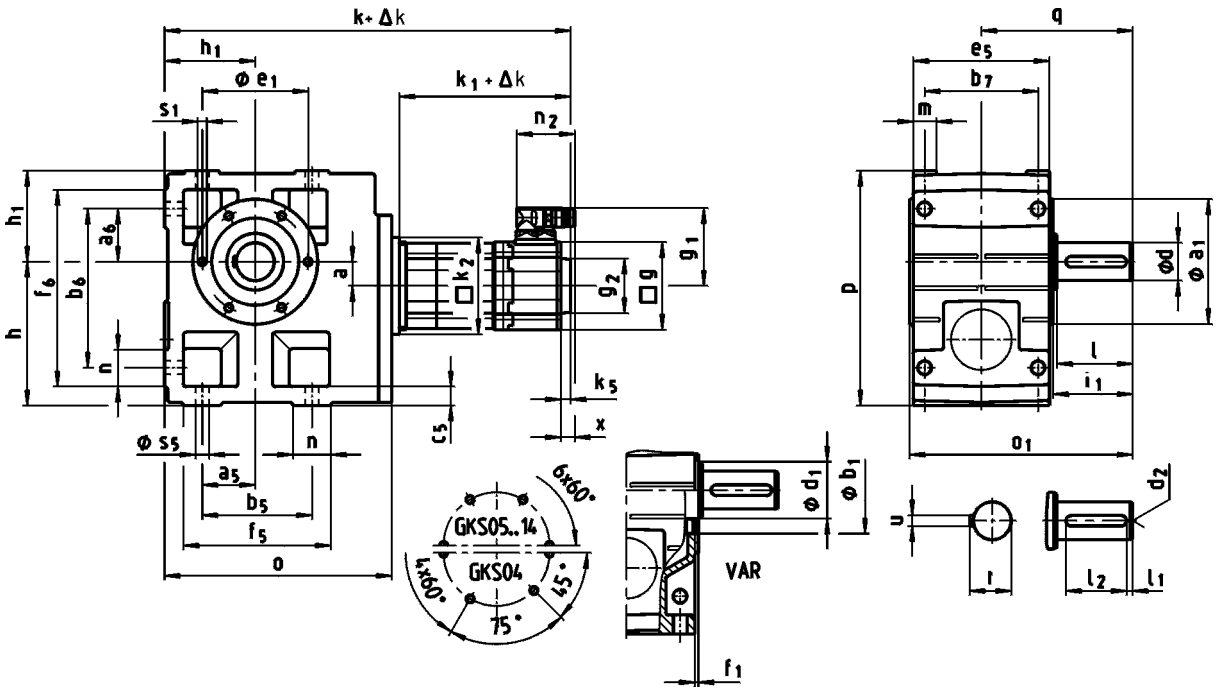
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-3S HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 149 | 171 | 100 | 71 | 20 | 91 | 39 |
| **GKS05...** | 232 | 174 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GKS06...** | 291 | 203 [2]<br>202 [3] | 250 | 150 | 100 | 28 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GKS07...** | 354 | 256 | 310 | 190 | 120 | 34 | 155.5 | 66 |
| **GKS09...** | 429 | 301 | 386 | 236 | 150 | 41 | 180.5 | 70 |
| **GKS11...** | 527 | 351 | 485 | 300 | 185 | 54 | 205.5 | 71 |
| **GKS14...** | 636 | 411 | 605 | 375 | 230 | 67 | 235.5 | 72 |

[2] $a_2$ = 200
[3] $a_2$ = 250

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GKS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GKS05...** | 35 | 140 | 50 | 124 | 10 | 38.3 | 200 | 130 | 12 | 165 | | | 4 x 11 |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |

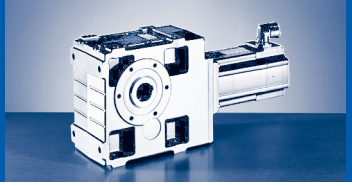



## GKS□□-3S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | | | | | | | |
| GKS05... | k | 367 | 397 | 427 | 419 | 439 | 459 | 499 | 436 | | 476 | | | 516 | |
| GKS06... | k | 423 | 453 | 483 | 475 | 495 | 515 | 555 | 492 | | 532 | | | 572 | |
| GKS07... | k | | | | 531 | 551 | 571 | 611 | 548 | | 588 | | | 628 | |
| GKS09... | k | | | | | | | | 619 | | 659 | | | 699 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS05: 12DC20 ... 12LC41



## GKS□□-3S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 508 | | 548 | | 588 | | 628 | | | | | | | |
| GKS07... | k | 564 | | 604 | | 644 | | 684 | | 603 | | 643 | | 703 | |
| GKS09... | k | 635 | | 675 | | 715 | | 755 | | 674 | | 714 | | 774 | |
| GKS11... | k | 726 | | 766 | | 806 | | 846 | | 765 | | 805 | | 865 | |
| GKS14... | k | | | | | | | | | 864 | | 904 | | 964 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

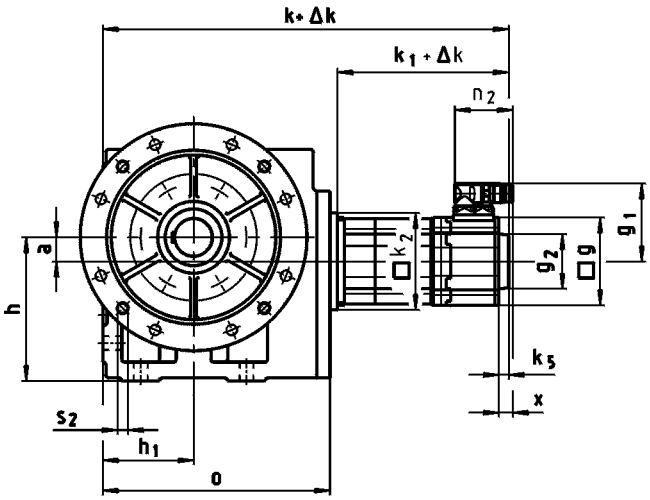
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

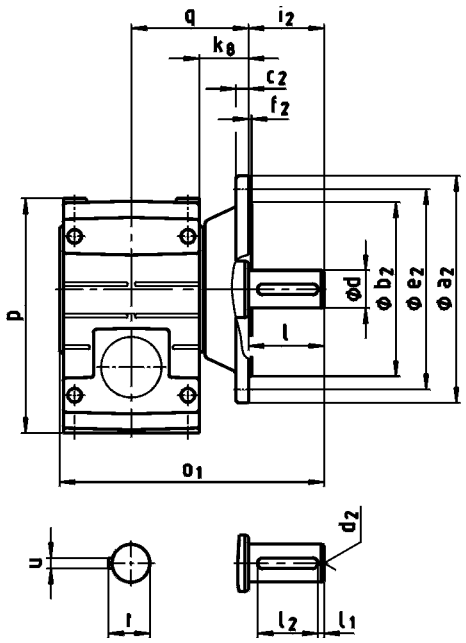
## GKS□□-3S V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 163 | 171 | 100 | 71 | 20 | 107.5 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 21 | 22 | 9 |
| **GKS05...** | 232 | 197 | 205 | 125 | 80 | 23 | 130 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | | 29 | 11 |
| **GKS06...** | 291 | 236 | 250 | 150 | 100 | 28 | 160 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 354 | 296 | 310 | 190 | 120 | 34 | 200 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 429 | 356 | 386 | 236 | 150 | 41 | 240 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 527 | 445 | 485 | 300 | 185 | 54 | 305 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 636 | 544 | 605 | 375 | 230 | 67 | 375 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | |
| **GKS04...** | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 |
| **GKS05...** | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GKS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GKS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GKS09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GKS11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GKS14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

d ≤ 50 mm: k6; d > 50 mm: m6



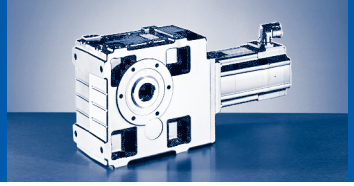




## GKS□□-3S VAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | | | | | | | |
| GKS05... | k | 367 | 397 | 427 | 419 | 439 | 459 | 499 | 436 | | 476 | | | 516 | |
| GKS06... | k | 423 | 453 | 483 | 475 | 495 | 515 | 555 | 492 | | 532 | | | 572 | |
| GKS07... | k | | | | 531 | 551 | 571 | 611 | 548 | | 588 | | | 628 | |
| GKS09... | k | | | | | | | | 619 | | 659 | | | 699 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS05: 12DC20 ... 12LC41



## GKS□□-3S VAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 508 | | 548 | | 588 | | 628 | | | | | | | |
| GKS07... | k | 564 | | 604 | | 644 | | 684 | | 603 | | 643 | | 703 | |
| GKS09... | k | 635 | | 675 | | 715 | | 755 | | 674 | | 714 | | 774 | |
| GKS11... | k | 726 | | 766 | | 806 | | 846 | | 765 | | 805 | | 865 | |
| GKS14... | k | | | | | | | | | 864 | | 904 | | 964 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

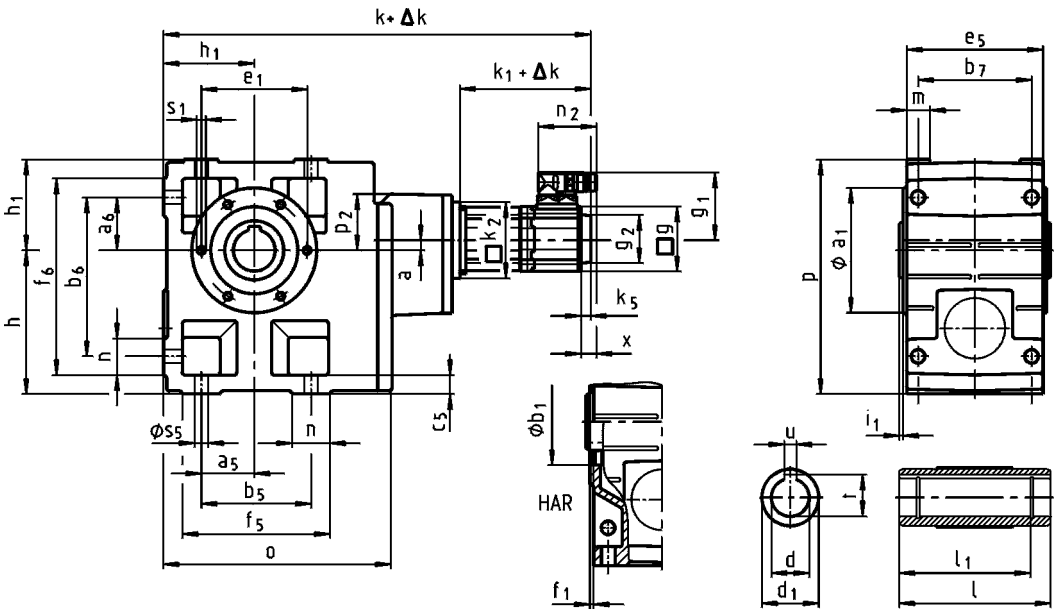
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-3S VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 196 | 171 | 100 | 71 | 20 | 91 | 39 |
| **GKS05...** | 232 | 230 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GKS06...** | 291 | 277 | 250 | 150 | 100 | 28 | 121.5 | 49 |
| **GKS07...** | 354 | 351 | 310 | 190 | 120 | 34 | 155.5 | 66 |
| **GKS09...** | 429 | 416 | 386 | 236 | 150 | 41 | 180.5 | 70 |
| **GKS11...** | 527 | 505 | 485 | 300 | 185 | 54 | 205.5 | 71 |
| **GKS14...** | 636 | 604 | 605 | 375 | 230 | 67 | 235.5 | 72 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GKS04...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| **GKS05...** | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| **GKS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GKS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GKS09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GKS11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| **GKS14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

d ≤ 50 mm: k6; d > 50 mm: m6

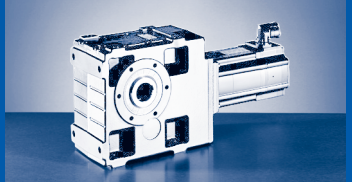



## GKS□□-4S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 443 | 473 | 503 | 496 | 516 | 536 | 576 | | | | | | | |
| GKS06... | k | 516 | 546 | 576 | 569 | 589 | 609 | 649 | | | | | | | |
| GKS07... | k | 583 | 613 | 643 | 636 | 656 | 676 | 716 | 653 | | 693 | | | 733 | |
| GKS09... | k | 672 | 702 | 732 | 725 | 745 | 765 | 805 | 742 | | 782 | | | 822 | |
| GKS11... | k | | | | 835 | 855 | 875 | 915 | 852 | | 892 | | | 932 | |
| GKS14... | k | | | | | | | | 985 | | 1025 | | | 1065 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS07: 12DC20 ... 12LC41



## GKS□□-4S H□R ... RSO

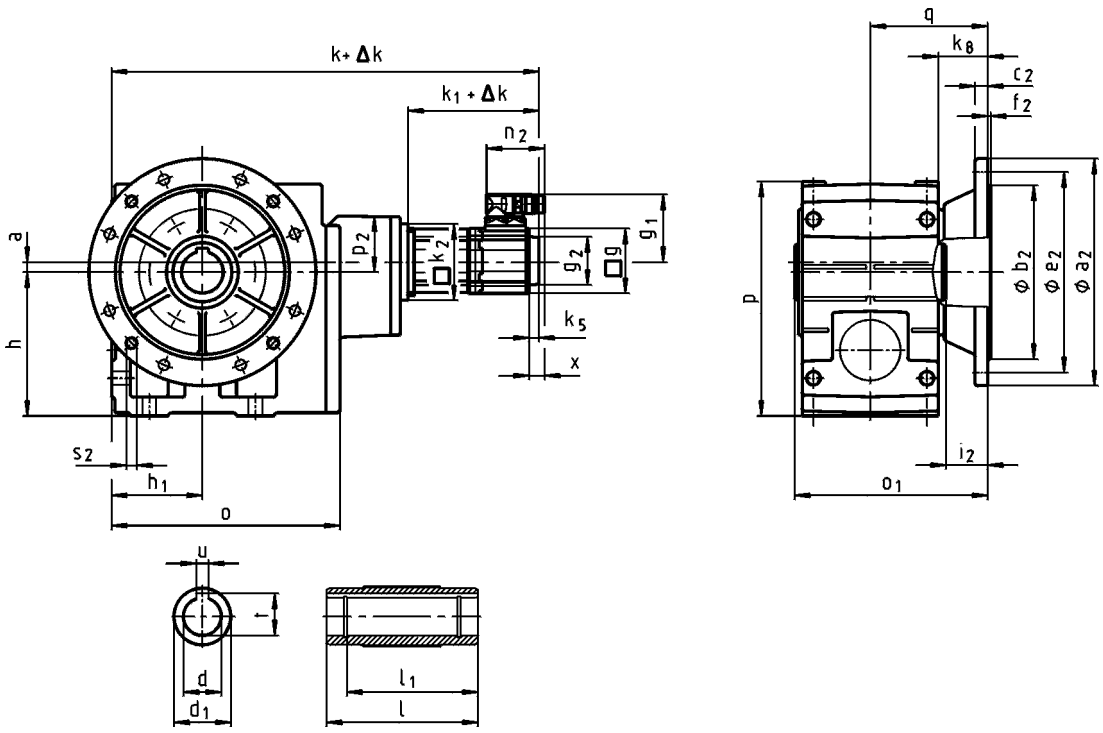
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 757 | | 797 | | 837 | | 877 | | | | | | | |
| GKS11... | k | 867 | | 907 | | 947 | | 987 | | 906 | | 946 | | 1006 | |
| GKS14... | k | 1000 | | 1040 | | 1080 | | 1120 | | 1039 | | 1079 | | 1139 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-4S H□R

| | o | p | $p_2$ | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
| GKS05... | 226 | 205 | 65 | 125 | 80 | 13 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 21 | 29 | 11 |
| GKS06... | 288 | 250 | 61 | 150 | 100 | 8 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| GKS07... | 351 | 310 | 72 | 190 | 120 | 11 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| GKS09... | 426 | 386 | 92 | 236 | 150 | 15 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| GKS11... | 523 | 485 | 112 | 300 | 185 | 16 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| GKS14... | 632 | 605 | 139 | 375 | 230 | 22 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| GKS05... | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| GKS06... | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| GKS07... | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| GKS09... | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| GKS11... | | 290 | 105 | 250 | | | 240 | 140 | 205 | | 6 | M20x32 |
| | 80 | | | | 22 | 85.4 | | | | | | |
| GKS14... | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |

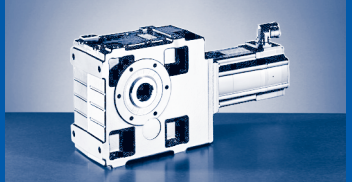



## GKS□□-4S HAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 443 | 473 | 503 | 496 | 516 | 536 | 576 | | | | | | | |
| GKS06... | k | 516 | 546 | 576 | 569 | 589 | 609 | 649 | | | | | | | |
| GKS07... | k | 583 | 613 | 643 | 636 | 656 | 676 | 716 | 653 | | 693 | | | 733 | |
| GKS09... | k | 672 | 702 | 732 | 725 | 745 | 765 | 805 | 742 | | 782 | | | 822 | |
| GKS11... | k | | | | 835 | 855 | 875 | 915 | 852 | | 892 | | | 932 | |
| GKS14... | k | | | | | | | | 985 | | 1025 | | | 1065 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS07: 12DC20 ... 12LC41



## GKS□□-4S HAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 757 | | 797 | | 837 | | 877 | | | | | | | |
| GKS11... | k | 867 | | 907 | | 947 | | 987 | | 906 | | 946 | | 1006 | |
| GKS14... | k | 1000 | | 1040 | | 1080 | | 1120 | | 1039 | | 1079 | | 1139 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

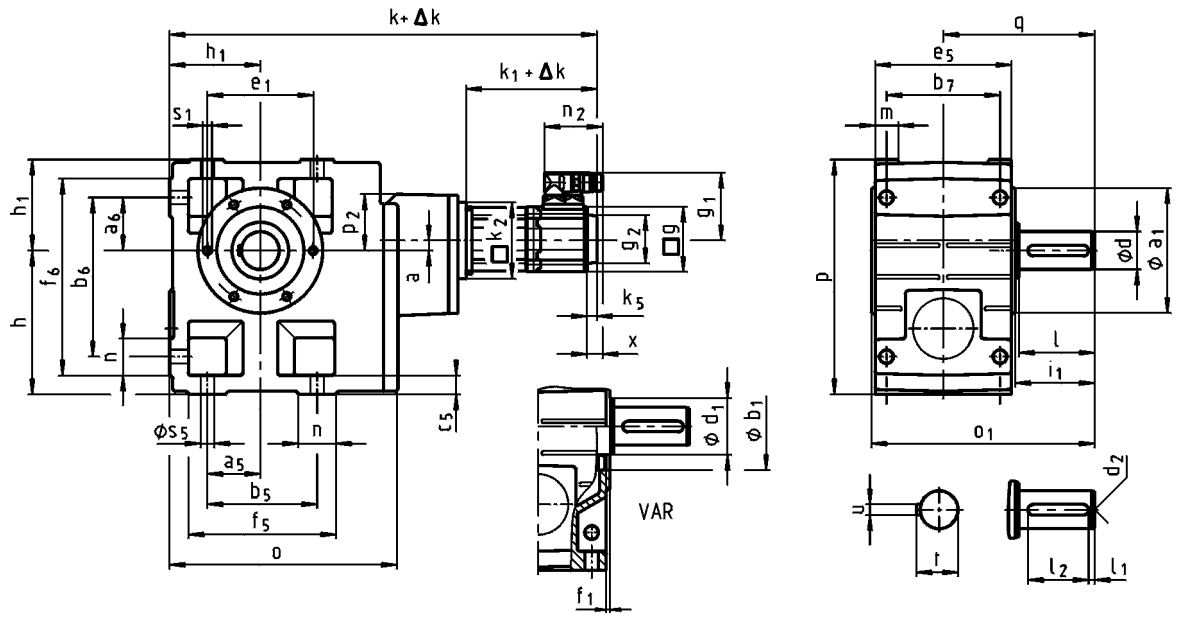
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-4S HAK

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 174 | 205 | 65 | 125 | 80 | 13 | 103.5 | 40 |
| **GKS06...** | 288 | 203 [2]<br>202 [3] | 250 | 61 | 150 | 100 | 8 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GKS07...** | 351 | 256 | 310 | 72 | 190 | 120 | 11 | 155.5 | 66 |
| **GKS09...** | 426 | 301 | 386 | 92 | 236 | 150 | 15 | 180.5 | 70 |
| **GKS11...** | 523 | 351 | 485 | 112 | 300 | 185 | 16 | 205.5 | 71 |
| **GKS14...** | 632 | 411 | 605 | 139 | 375 | 230 | 22 | 235.5 | 72 |

[2] $a_2$ = 200
[3] $a_2$ = 250

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GKS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |

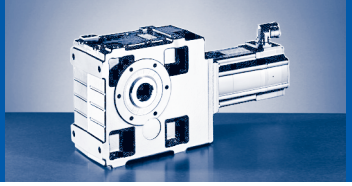



## GKS□□-4S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 443 | 473 | 503 | 496 | 516 | 536 | 576 | | | | | | | |
| GKS06... | k | 516 | 546 | 576 | 569 | 589 | 609 | 649 | | | | | | | |
| GKS07... | k | 583 | 613 | 643 | 636 | 656 | 676 | 716 | 653 | | | 693 | | 733 | |
| GKS09... | k | 672 | 702 | 732 | 725 | 745 | 765 | 805 | 742 | | | 782 | | 822 | |
| GKS11... | k | | | | 835 | 855 | 875 | 915 | 852 | | | 892 | | 932 | |
| GKS14... | k | | | | | | | | 985 | | | 1025 | | 1065 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | | 228 | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS07: 12DC20 ... 12LC41



## GKS□□-4S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 757 | | 797 | | 837 | | 877 | | | | | | | |
| GKS11... | k | 867 | | 907 | | 947 | | 987 | | 906 | | 946 | | 1006 | |
| GKS14... | k | 1000 | | 1040 | | 1080 | | 1120 | | 1039 | | 1079 | | 1139 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

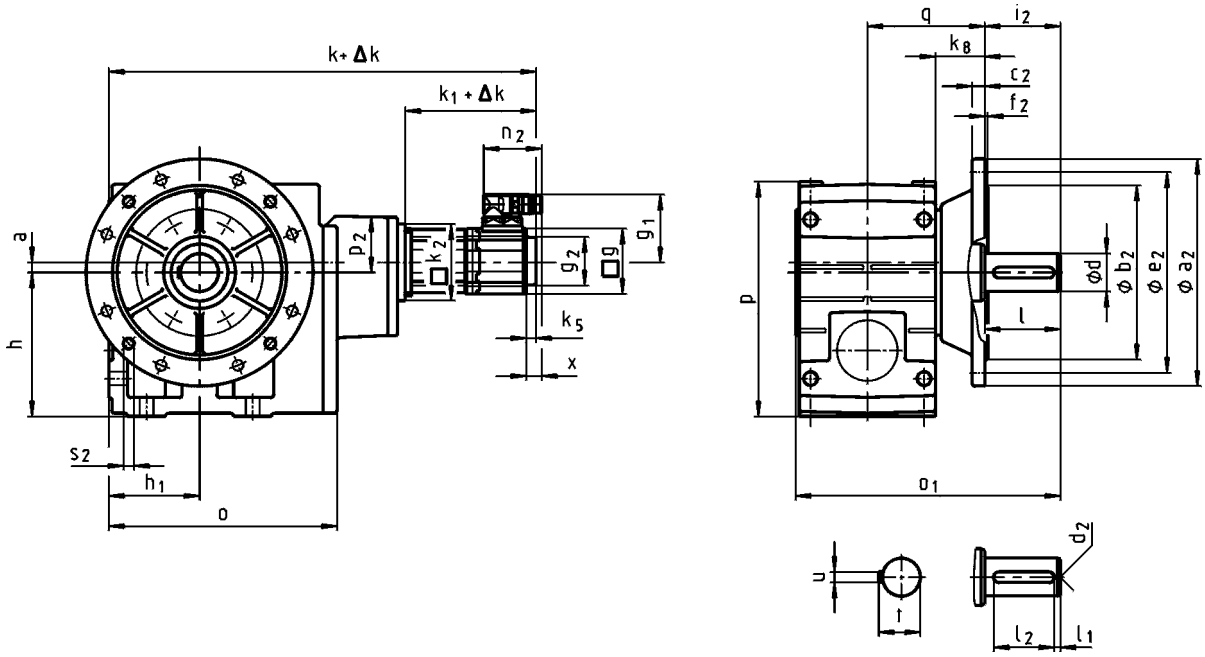
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-4S V□R

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 197 | 205 | 65 | 125 | 80 | 13 | 130 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 21 | 29 | 11 |
| **GKS06...** | 288 | 236 | 250 | 61 | 150 | 100 | 8 | 160 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 351 | 296 | 310 | 72 | 190 | 120 | 11 | 200 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 426 | 356 | 386 | 92 | 236 | 150 | 15 | 240 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 523 | 445 | 485 | 112 | 300 | 185 | 16 | 305 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 632 | 544 | 605 | 139 | 375 | 230 | 22 | 375 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GKS05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GKS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GKS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GKS09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GKS11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GKS14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

d ≤ 50 mm: k6; d > 50 mm: m6

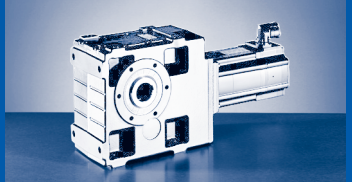



## GKS□□-4S VAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 443 | 473 | 503 | 496 | 516 | 536 | 576 | | | | | | | |
| GKS06... | k | 516 | 546 | 576 | 569 | 589 | 609 | 649 | | | | | | | |
| GKS07... | k | 583 | 613 | 643 | 636 | 656 | 676 | 716 | 653 | | 693 | | | 733 | |
| GKS09... | k | 672 | 702 | 732 | 725 | 745 | 765 | 805 | 742 | | 782 | | | 822 | |
| GKS11... | k | | | | 835 | 855 | 875 | 915 | 852 | | 892 | | | 932 | |
| GKS14... | k | | | | | | | | 985 | | 1025 | | | 1065 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GKS07: 12DC20 ... 12LC41



## GKS□□-4S VAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 757 | | 797 | | 837 | | 877 | | | | | | | |
| GKS11... | k | 867 | | 907 | | 947 | | 987 | | 906 | | 946 | | 1006 | |
| GKS14... | k | 1000 | | 1040 | | 1080 | | 1120 | | 1039 | | 1079 | | 1139 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

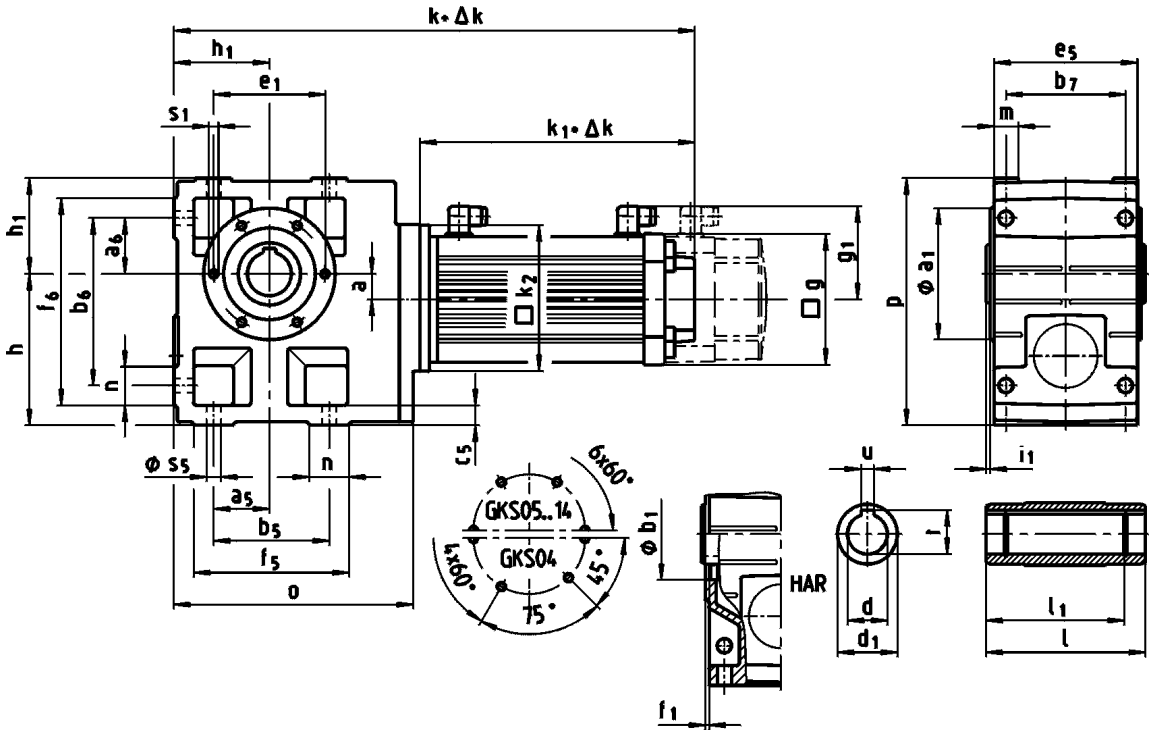
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GKS□□-4S VAK

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|
| GKS05... | 226 | 230 | 205 | 65 | 125 | 80 | 13 | 103.5 | 40 |
| GKS06... | 288 | 277 | 250 | 61 | 150 | 100 | 8 | 121.5 | 49 |
| GKS07... | 351 | 351 | 310 | 72 | 190 | 120 | 11 | 155.5 | 66 |
| GKS09... | 426 | 416 | 386 | 92 | 236 | 150 | 15 | 180.5 | 70 |
| GKS11... | 523 | 505 | 485 | 112 | 300 | 185 | 16 | 205.5 | 71 |
| GKS14... | 632 | 604 | 605 | 139 | 375 | 230 | 22 | 235.5 | 72 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| GKS05... | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| GKS06... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| GKS07... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| GKS09... | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| GKS11... | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| GKS14... | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

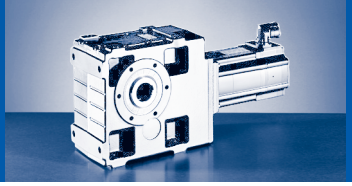
d ≤ 50 mm: k6; d > 50 mm: m6




## GKS□□-3A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 475 | 483 | 551 | | | | | | |
| GKS05... | k | 495 | 503 | 571 | 553 | | 615 | | | |
| GKS06... | k | 551 | 559 | 627 | 609 | | 671 | | 648 | |
| GKS07... | k | 607 | 615 | 683 | 665 | | 727 | | 704 | |
| GKS09... | k | | | | 736 | | 798 | | 775 | |
| GKS11... | k | | | | 827 | | 889 | | 866 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-3A H□R ... RSO

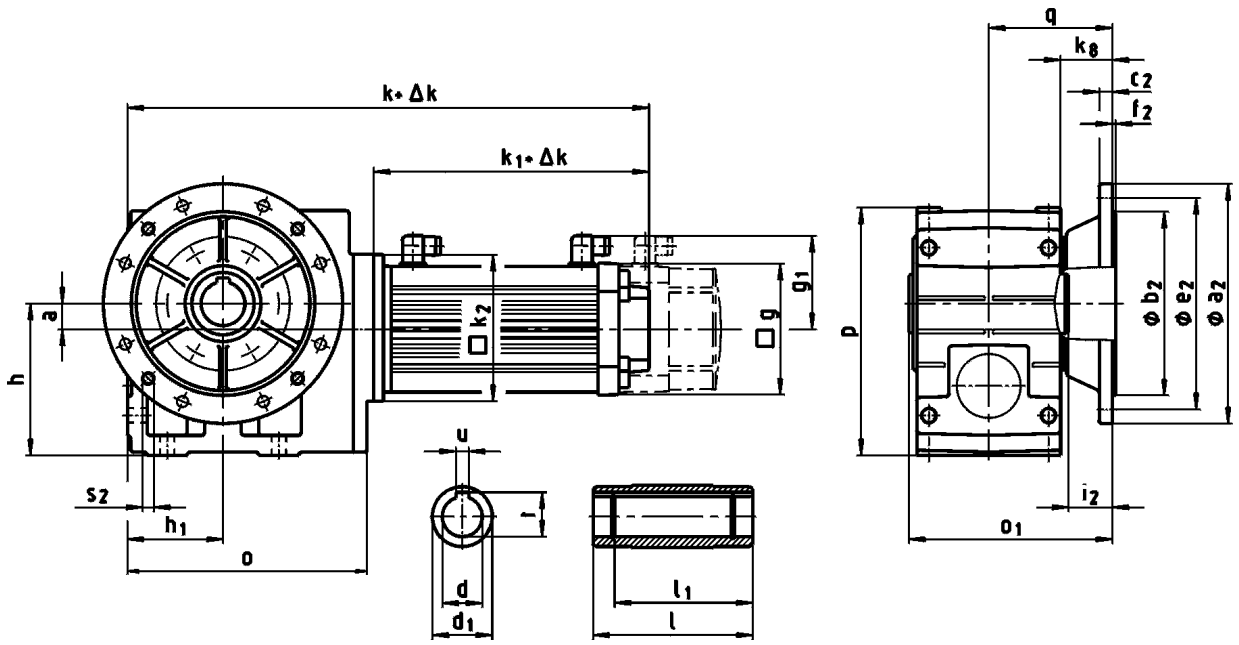
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 737 | | | | | | | | | |
| GKS07... | k | 793 | | 773 | | 870 | | 851 | | 947 | |
| GKS09... | k | 864 | | 844 | | 941 | | 922 | | 1018 | |
| GKS11... | k | 955 | | 935 | | 1032 | | 1013 | | 1109 | |
| GKS14... | k | | | 1034 | | 1131 | | 1112 | | 1208 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-3A H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 171 | 100 | 71 | 20 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 21 | 22 | 9 |
| **GKS05...** | 232 | 205 | 125 | 80 | 23 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | | 29 | 11 |
| **GKS06...** | 291 | 250 | 150 | 100 | 28 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 354 | 310 | 190 | 120 | 34 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 429 | 386 | 236 | 150 | 41 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 527 | 485 | 300 | 185 | 54 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 636 | 605 | 375 | 230 | 67 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

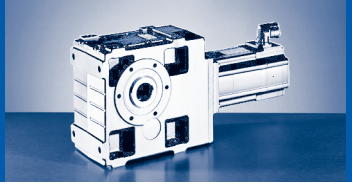
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | |
| **GKS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GKS05...** | | 140 | 50 | 124 | | | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 240 | 140 | 205 | | 6 | M20x32 |
| | 80 | | | | 22 | 85.4 | | | | | | |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |




## GKS□□-3A HAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 475 | 483 | 551 | | | | | | |
| GKS05... | k | 495 | 503 | 571 | 553 | | 615 | | | |
| GKS06... | k | 551 | 559 | 627 | 609 | | 671 | | 648 | |
| GKS07... | k | 607 | 615 | 683 | 665 | | 727 | | 704 | |
| GKS09... | k | | | | 736 | | 798 | | 775 | |
| GKS11... | k | | | | 827 | | 889 | | 866 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-3A HAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 737 | | | | | | | | | |
| GKS07... | k | 793 | | 773 | | 870 | | 851 | | 947 | |
| GKS09... | k | 864 | | 844 | | 941 | | 922 | | 1018 | |
| GKS11... | k | 955 | | 935 | | 1032 | | 1013 | | 1109 | |
| GKS14... | k | | | 1034 | | 1131 | | 1112 | | 1208 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

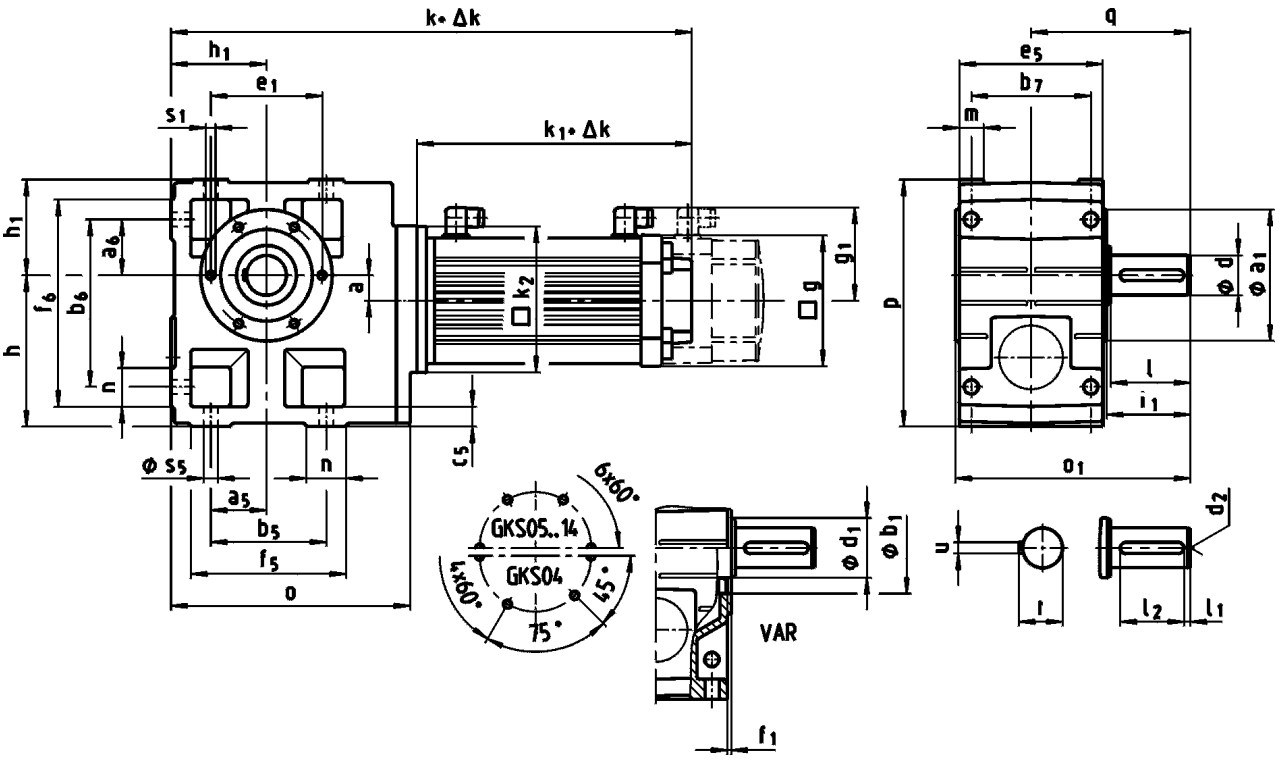
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-3A HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 149 | 171 | 100 | 71 | 20 | 91 | 39 |
| **GKS05...** | 232 | 174 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GKS06...** | 291 | 203 [2]<br>202 [3] | 250 | 150 | 100 | 28 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GKS07...** | 354 | 256 | 310 | 190 | 120 | 34 | 155.5 | 66 |
| **GKS09...** | 429 | 301 | 386 | 236 | 150 | 41 | 180.5 | 70 |
| **GKS11...** | 527 | 351 | 485 | 300 | 185 | 54 | 205.5 | 71 |
| **GKS14...** | 636 | 411 | 605 | 375 | 230 | 67 | 235.5 | 72 |

[2] $a_2$ = 200
[3] $a_2$ = 250

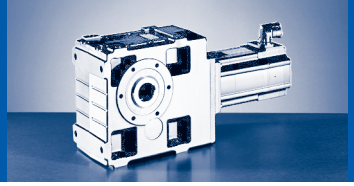
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GKS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GKS05...** | | 140 | 50 | 124 | | | 200 | 130 | 12 | 165 | | | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |




## GKS□□-3A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 475 | 483 | 551 | | | | | | |
| GKS05... | k | 495 | 503 | 571 | 553 | | 615 | | | |
| GKS06... | k | 551 | 559 | 627 | 609 | | 671 | | 648 | |
| GKS07... | k | 607 | 615 | 683 | 665 | | 727 | | 704 | |
| GKS09... | k | | | | 736 | | 798 | | 775 | |
| GKS11... | k | | | | 827 | | 889 | | 866 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-3A V□R ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 737 | | | | | | | | | |
| GKS07... | k | 793 | | 773 | | 870 | | 851 | | 947 | |
| GKS09... | k | 864 | | 844 | | 941 | | 922 | | 1018 | |
| GKS11... | k | 955 | | 935 | | 1032 | | 1013 | | 1109 | |
| GKS14... | k | | | 1034 | | 1131 | | 1112 | | 1208 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

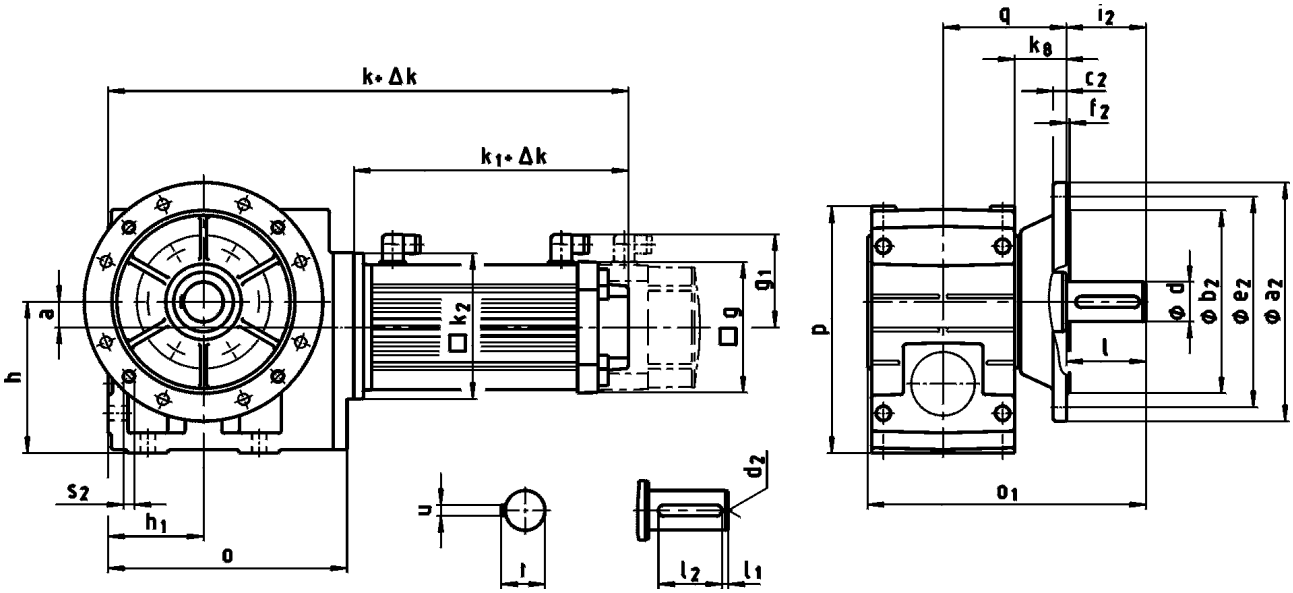
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-3A V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
| GKS04... | 203 | 163 | 171 | 100 | 71 | 20 | 107.5 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 21 | 22 | 9 |
| GKS05... | 232 | 197 | 205 | 125 | 80 | 23 | 130 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | | 29 | 11 |
| GKS06... | 291 | 236 | 250 | 150 | 100 | 28 | 160 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| GKS07... | 354 | 296 | 310 | 190 | 120 | 34 | 200 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| GKS09... | 429 | 356 | 386 | 236 | 150 | 41 | 240 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| GKS11... | 527 | 445 | 485 | 300 | 185 | 54 | 305 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| GKS14... | 636 | 544 | 605 | 375 | 230 | 67 | 375 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | |
| GKS04... | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 |
| GKS05... | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| GKS06... | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| GKS07... | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| GKS09... | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| GKS11... | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| GKS14... | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

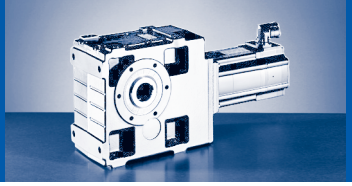
d ≤ 50 mm: k6; d > 50 mm: m6




## GKS□□-3A VAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS04... | k | 475 | 483 | 551 | | | | | | |
| GKS05... | k | 495 | 503 | 571 | 553 | | 615 | | | |
| GKS06... | k | 551 | 559 | 627 | 609 | | 671 | | 648 | |
| GKS07... | k | 607 | 615 | 683 | 665 | | 727 | | 704 | |
| GKS09... | k | | | | 736 | | 798 | | 775 | |
| GKS11... | k | | | | 827 | | 889 | | 866 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-3A VAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS06... | k | 737 | | | | | | | | | |
| GKS07... | k | 793 | | 773 | | 870 | | 851 | | 947 | |
| GKS09... | k | 864 | | 844 | | 941 | | 922 | | 1018 | |
| GKS11... | k | 955 | | 935 | | 1032 | | 1013 | | 1109 | |
| GKS14... | k | | | 1034 | | 1131 | | 1112 | | 1208 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

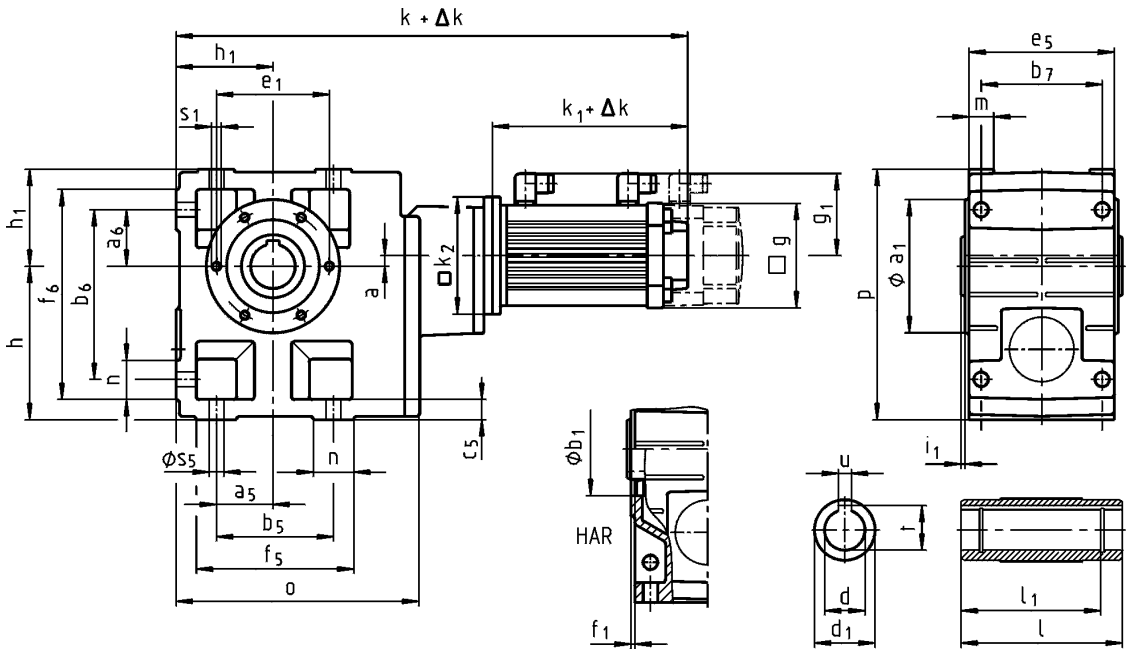
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-3A VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 203 | 196 | 171 | 100 | 71 | 20 | 91 | 39 |
| **GKS05...** | 232 | 230 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GKS06...** | 291 | 277 | 250 | 150 | 100 | 28 | 121.5 | 49 |
| **GKS07...** | 354 | 351 | 310 | 190 | 120 | 34 | 155.5 | 66 |
| **GKS09...** | 429 | 416 | 386 | 236 | 150 | 41 | 180.5 | 70 |
| **GKS11...** | 527 | 505 | 485 | 300 | 185 | 54 | 205.5 | 71 |
| **GKS14...** | 636 | 604 | 605 | 375 | 230 | 67 | 235.5 | 72 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GKS04...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| **GKS05...** | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| **GKS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GKS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GKS09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GKS11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | 8 x 17.5 |
| **GKS14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | |

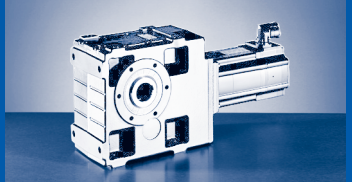
d ≤ 50 mm: k6; d > 50 mm: m6




## GKS□□-4A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 571 | 580 | 648 | | | | | | |
| GKS06... | k | 644 | 653 | 721 | | | | | | |
| GKS07... | k | 711 | 720 | 788 | 770 | | 832 | | | |
| GKS09... | k | 800 | 809 | 877 | 859 | | 921 | | 898 | |
| GKS11... | k | 910 | 919 | 987 | 969 | | 1031 | | 1008 | |
| GKS14... | k | | | | 1102 | | 1164 | | 1141 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-4A H□R ... RSO

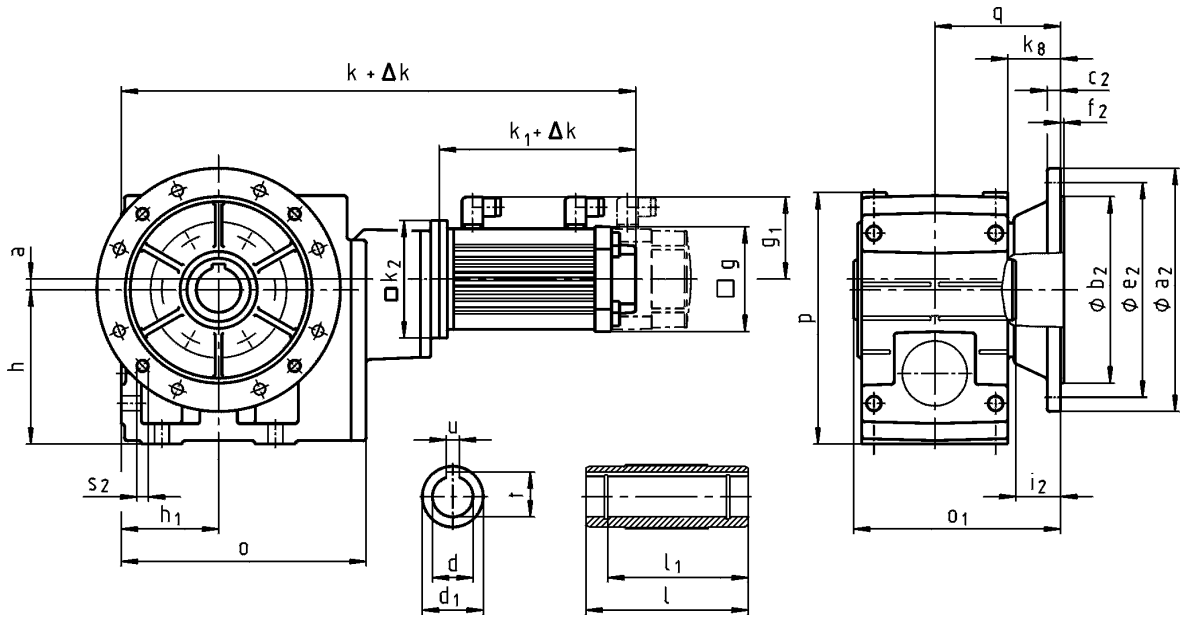
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 987 | | | | | | | | | |
| GKS11... | k | 1097 | | 1076 | | 1173 | | 1155 | | 1251 | |
| GKS14... | k | 1230 | | 1209 | | 1306 | | 1288 | | 1384 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-4A H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 205 | 125 | 80 | 13 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 21 | 29 | 11 |
| **GKS06...** | 288 | 250 | 150 | 100 | 8 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 351 | 310 | 190 | 120 | 11 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 426 | 386 | 236 | 150 | 15 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 523 | 485 | 300 | 185 | 16 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 632 | 605 | 375 | 230 | 22 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

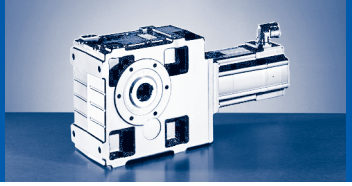
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GKS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 205 | 145 | 175 | 6 | | M16x24 |
| | 70 | | | | 20 | 74.9 | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 240 | 140 | 205 | | 6 | M20x32 |
| | 80 | | | | 22 | 85.4 | | | | | | |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | | 7 | M24x35 |




## GKS□□-4A HAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 571 | 580 | 648 | | | | | | |
| GKS06... | k | 644 | 653 | 721 | | | | | | |
| GKS07... | k | 711 | 720 | 788 | 770 | | 832 | | | |
| GKS09... | k | 800 | 809 | 877 | 859 | | 921 | | 898 | |
| GKS11... | k | 910 | 919 | 987 | 969 | | 1031 | | 1008 | |
| GKS14... | k | | | | 1102 | | 1164 | | 1141 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-4A HAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 987 | | | | | | | | | |
| GKS11... | k | 1097 | | 1076 | | 1173 | | 1155 | | 1251 | |
| GKS14... | k | 1230 | | 1209 | | 1306 | | 1288 | | 1384 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

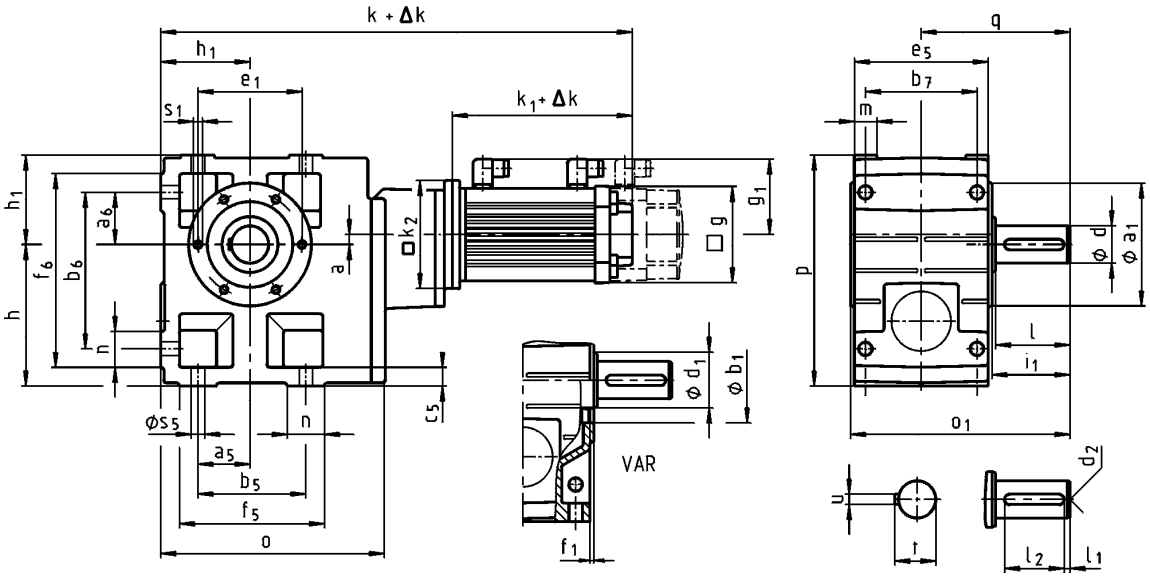
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-4A HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 174 | 205 | 125 | 80 | 13 | 103.5 | 40 |
| **GKS06...** | 288 | 203 [2]<br>202 [3] | 250 | 150 | 100 | 8 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GKS07...** | 351 | 256 | 310 | 190 | 120 | 11 | 155.5 | 66 |
| **GKS09...** | 426 | 301 | 386 | 236 | 150 | 15 | 180.5 | 70 |
| **GKS11...** | 523 | 351 | 485 | 300 | 185 | 16 | 205.5 | 71 |
| **GKS14...** | 632 | 411 | 605 | 375 | 230 | 22 | 235.5 | 72 |

[2] $a_2$ = 200
[3] $a_2$ = 250

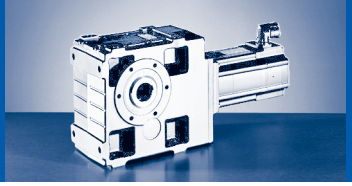
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GKS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GKS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GKS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |
| **GKS09...** | 60 | 240 | 95 | 210 | 18 | 64.4 | 350 | 250 | 18 | 300 | | 60.5 | 4 x 17.5 |
| | 70 | | | | 20 | 74.9 | | | | | | | |
| **GKS11...** | | 290 | 105 | 250 | | | 400 | 300 | 20 | 350 | 5 | | |
| | 80 | | | | 22 | 85.4 | 450 | 350 | 22 | 400 | | | 8 x 17.5 |
| **GKS14...** | 100 | 350 | 135 | 305 | 28 | 106.4 | | | | | | | |




## GKS□□-4A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 571 | 580 | 648 | | | | | | |
| GKS06... | k | 644 | 653 | 721 | | | | | | |
| GKS07... | k | 711 | 720 | 788 | 770 | | 832 | | | |
| GKS09... | k | 800 | 809 | 877 | 859 | | 921 | | 898 | |
| GKS11... | k | 910 | 919 | 987 | 969 | | 1031 | | 1008 | |
| GKS14... | k | | | | 1102 | | 1164 | | 1141 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-4A V□R ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 987 | | | | | | | | | |
| GKS11... | k | 1097 | | 1076 | | 1173 | | 1155 | | 1251 | |
| GKS14... | k | 1230 | | 1209 | | 1306 | | 1288 | | 1384 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

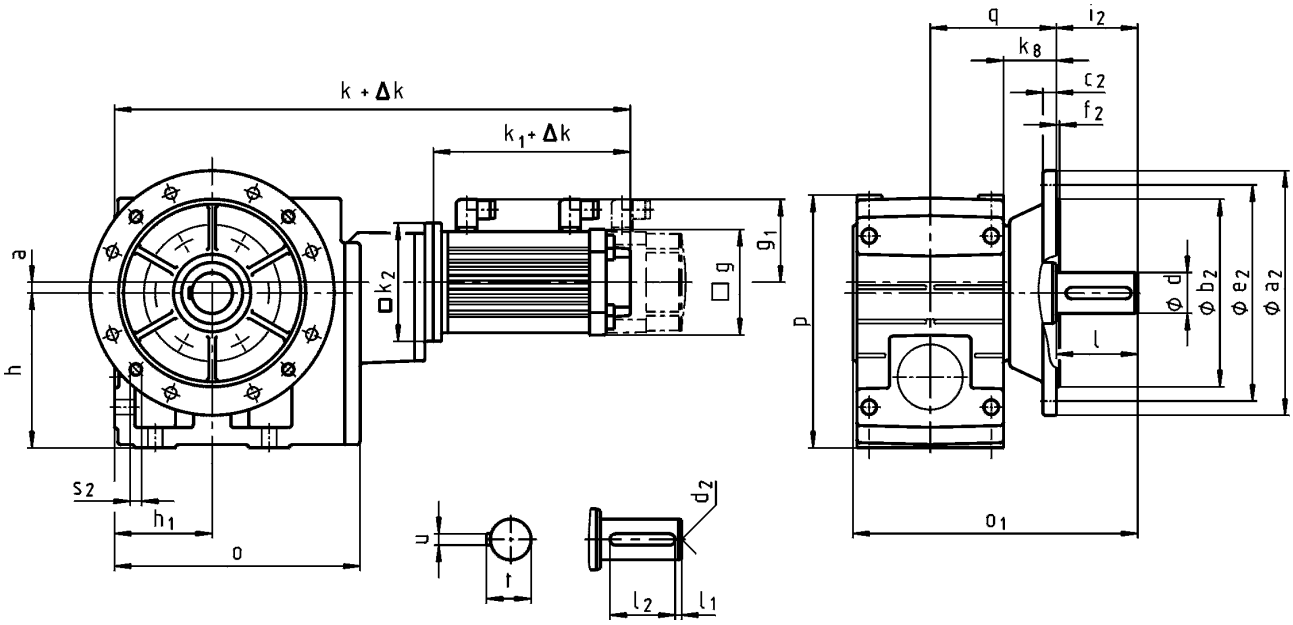
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GKS□□-4A V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 197 | 205 | 125 | 80 | 13 | 130 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 21 | 29 | 11 |
| **GKS06...** | 288 | 236 | 250 | 150 | 100 | 8 | 160 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 23 | 36 | 14 |
| **GKS07...** | 351 | 296 | 310 | 190 | 120 | 11 | 200 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 28 | 45 | 18 |
| **GKS09...** | 426 | 356 | 386 | 236 | 150 | 15 | 240 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 37 | 60 | 22 |
| **GKS11...** | 523 | 445 | 485 | 300 | 185 | 16 | 305 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 43 | 73 | 26 |
| **GKS14...** | 632 | 544 | 605 | 375 | 230 | 22 | 375 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 52 | 82 | 33 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GKS05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GKS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GKS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |
| **GKS09...** | 60 | 120 | 95 | | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 |
| **GKS11...** | 80 | 160 | 105 | 15 | 125 | | 22 | 85 | 240 | 140 | 205 | | 166 | M20x32 |
| **GKS14...** | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | | 207 | M24x35 |

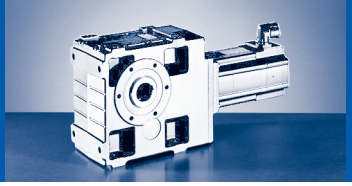
d ≤ 50 mm: k6; d > 50 mm: m6




## GKS□□-4A VAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GKS05... | k | 571 | 580 | 648 | | | | | | |
| GKS06... | k | 644 | 653 | 721 | | | | | | |
| GKS07... | k | 711 | 720 | 788 | 770 | | 832 | | | |
| GKS09... | k | 800 | 809 | 877 | 859 | | 921 | | 898 | |
| GKS11... | k | 910 | 919 | 987 | 969 | | 1031 | | 1008 | |
| GKS14... | k | | | | 1102 | | 1164 | | 1141 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GKS□□-4A VAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GKS09... | k | 987 | | | | | | | | | |
| GKS11... | k | 1097 | | 1076 | | 1173 | | 1155 | | 1251 | |
| GKS14... | k | 1230 | | 1209 | | 1306 | | 1288 | | 1384 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

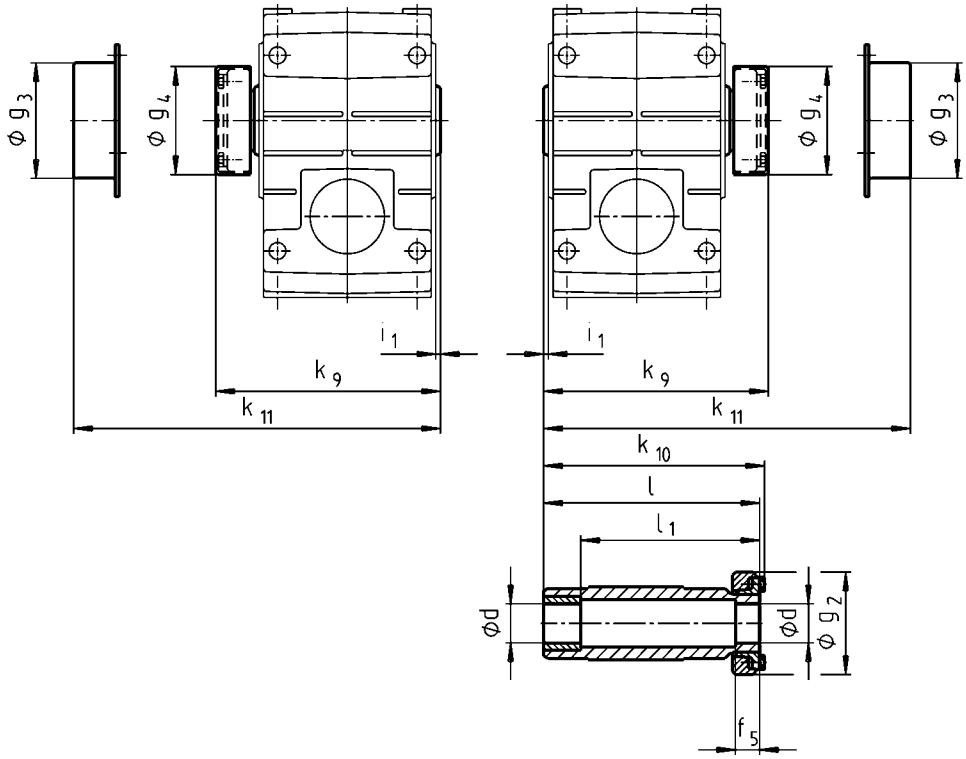
## GKS□□-4A VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GKS05...** | 226 | 230 | 205 | 125 | 80 | 13 | 103.5 | 40 |
| **GKS06...** | 288 | 277 | 250 | 150 | 100 | 8 | 121.5 | 49 |
| **GKS07...** | 351 | 351 | 310 | 190 | 120 | 11 | 155.5 | 66 |
| **GKS09...** | 426 | 416 | 386 | 236 | 150 | 15 | 180.5 | 70 |
| **GKS11...** | 523 | 505 | 485 | 300 | 185 | 16 | 205.5 | 71 |
| **GKS14...** | 632 | 604 | 605 | 375 | 230 | 22 | 235.5 | 72 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GKS05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| **GKS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GKS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |
| **GKS09...** | 60 | 120 | | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | | 120 | 4 x 17.5 |
| **GKS11...** | 80 | 160 | 15 | 125 | | 22 | 85 | 400 | 300 | 20 | 350 | 5 | 160 | |
| **GKS14...** | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | | 200 | 8 x 17.5 |

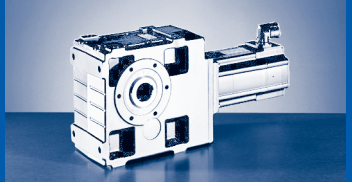
d ≤ 50 mm: k6; d > 50 mm: m6

## Hohlwelle mit Schrumpfscheibe

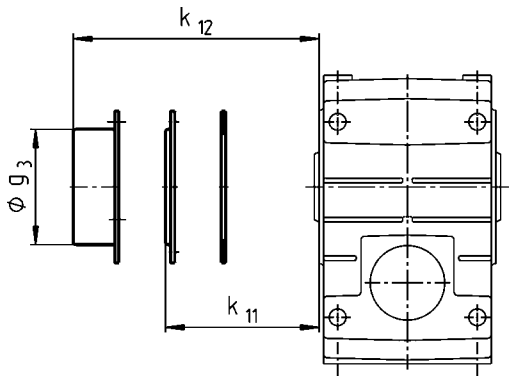



| | Maschinenwelle | Hohlwelle mit Schrumpfscheibe | | | | | | Schutzkappe | | Abdeckhaube | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | $i_1$ | $k_{10}$ | $g_2$ | l | $l_1$ | $f_5$ | $k_9$ | $g_4$ | $k_{11}$ | $g_3$ |
| | h6 | | | | | | | | | | |
| GKS04... | 25<br>30 | 2.5 | 148 | 72 | 142 | 122 | 26 | 150 | 76 | 154 | 79 |
| GKS05... | 35 | 4 | 174 | 80 | 168 | 148 | 28 | 176 | 84 | 179 | 90 |
| GKS06... | 40 | 5 | 200 | 90 | 194 | 164 | 30 | 202 | 94 | 204 | 100 |
| GKS07... | 50 | | 238 | 110 | 232 | 192 | 26 | 241 | 116 | 244 | 124 |
| GKS09... | 65 | | 285 | 141 | 278 | 228 | 30 | 288 | 147 | 287 | 159 |
| GKS11... | 80 | 6 | 344 | 170 | 338 | 238 | 42 | 347 | 176 | 349 | 191 |
| GKS14... | 100 | 7 | 415 | 215 | 407 | 307 | 55 | 418 | 221 | 421 | 253 |

► Bei Schrumpfscheibenausführungen auf ausreichende Festigkeit des Wellenwerkstoffes achten.
Bei Verwendung üblicher Stähle (z. B. C45, 42CrMo4) können die in den Auswahltabellen genannten Momente uneingeschränkt übertragen werden.
Bei Verwendung von Werkstoffen mit wesentlich geringerer Festigkeit bitten wir um Rücksprache. Die mittlere Rautiefe Rz sollte 15 µm nicht überschreiten (Drehbearbeitung ist ausreichend).

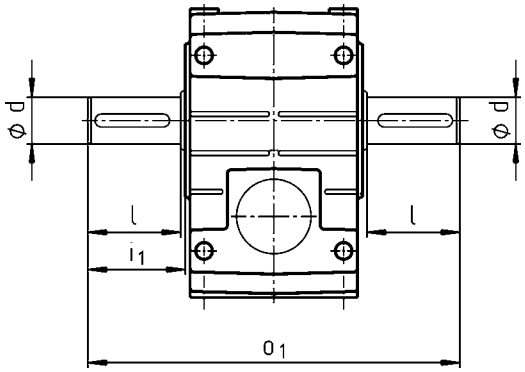


## Hohlwellenabdeckung strahlwasserfest

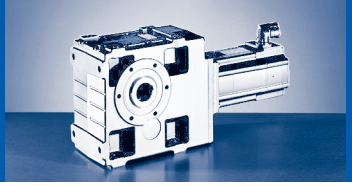



| | Abdeckhaube inkl. Dichtung | | |
|---|---|---|---|
| | $k_{11}$ | $k_{12}$ | $g_3$ |
| GKS04... | 9 | | |
| GKS05... | 10 | | |
| GKS06... | 11 | | |
| GKS07... | | | |
| GKS09... | | 54 | 159 |
| GKS11... | | 67 | 191 |
| GKS14... | | 80 | 253 |

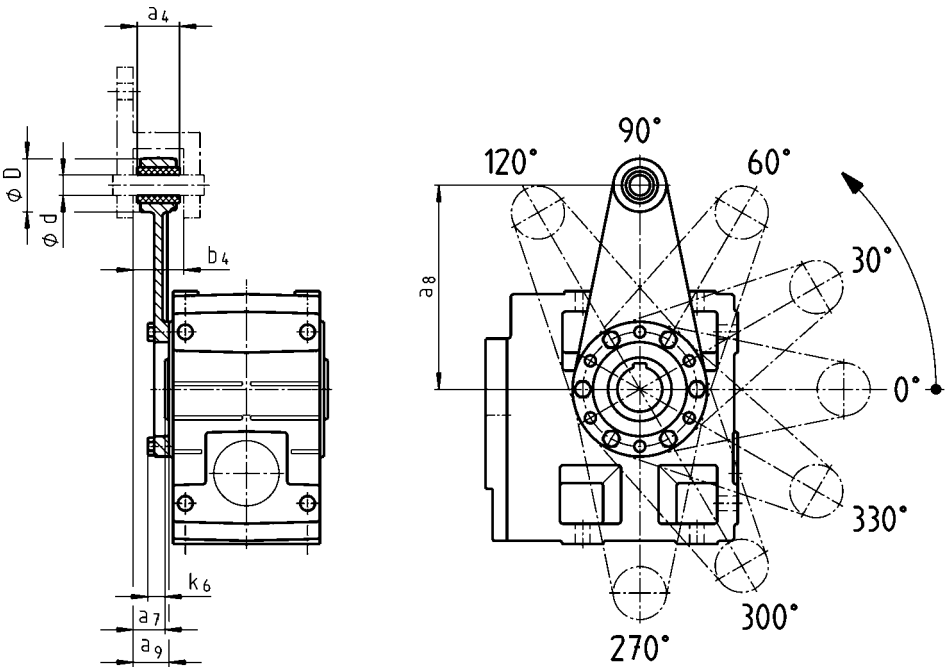
## Getriebe mit 2. Abtriebswellenende



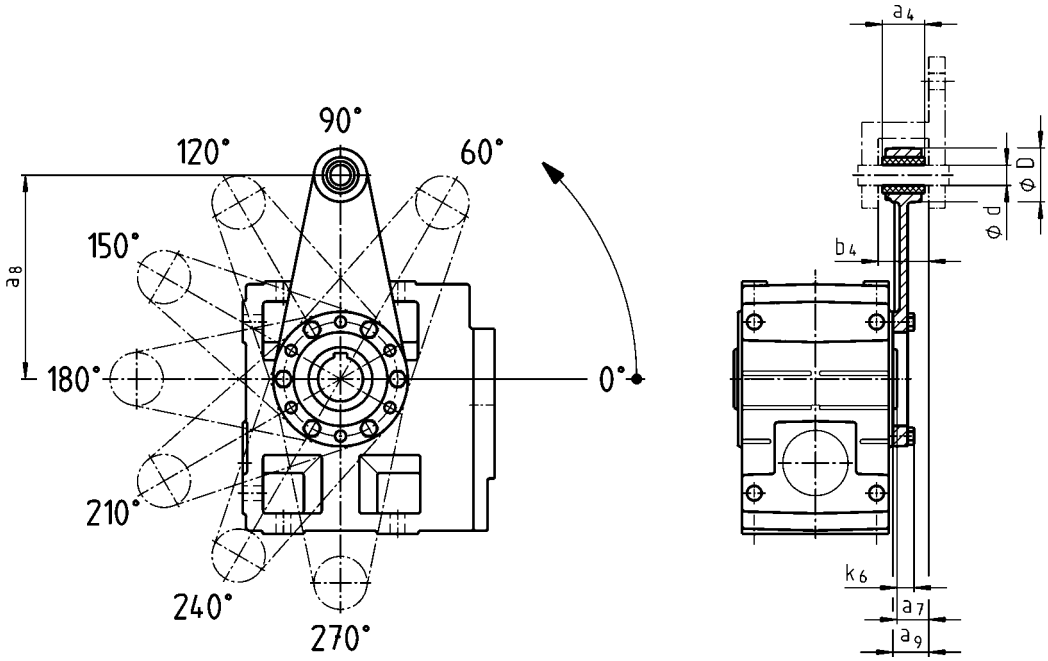

| | d | l | $i_1$ | $o_1$ |
|---|---|---|---|---|
| | | | | |
| **GKS04...** | 25 | 50 | 52.5 | 215 |
| **GKS05...** | 30 | 60 | 64 | 260 |
| **GKS06...** | 40 | 80 | 85 | 320 |
| **GKS07...** | 50 | 100 | 105 | 400 |
| **GKS09...** | 60 | 120 | 125 | 480 |
| **GKS11...** | 80 | 160 | 166 | 610 |
| **GKS14...** | 100 | 200 | 207 | 750 |



## Drehmomentstütze an Gewindelochkreis in Lage 3

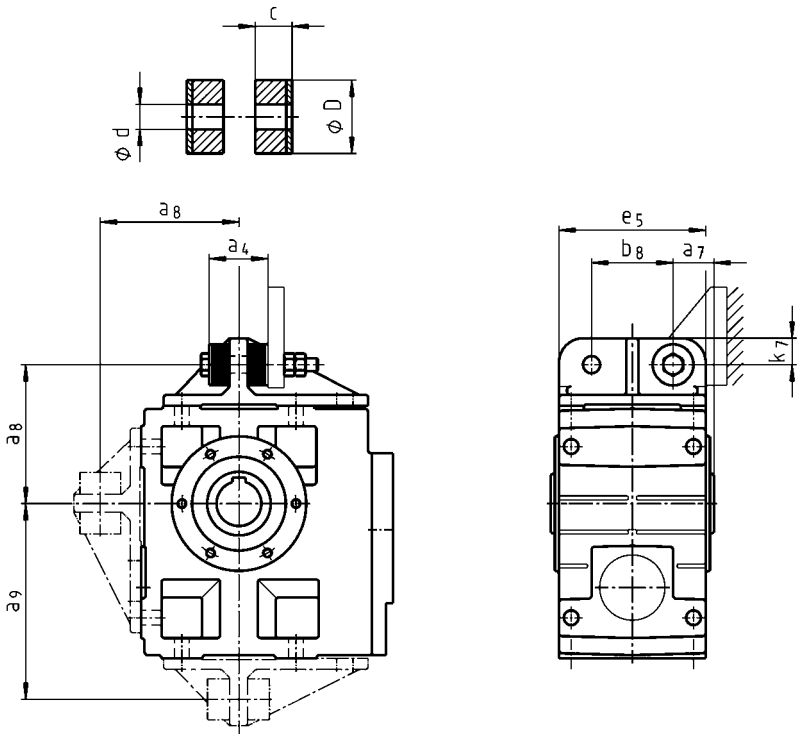



## Drehmomentstütze an Gewindelochkreis in Lage 5

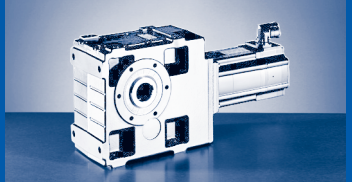



| | Einbauraum | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $a_7$ | $b_4$ | $a_4$ | $a_8$ | $a_9$ | d | D | $k_6$ |
| **GKS04...** | 24 | 34.5 | 30 | 130 | 26.5 | 12 | 35 | 16 |
| **GKS05...** | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 15 |
| **GKS06...** | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 |
| **GKS07...** | 32.5 | 50.5 | 46 | 250 | 37.5 | 25 | 65 | 21 |

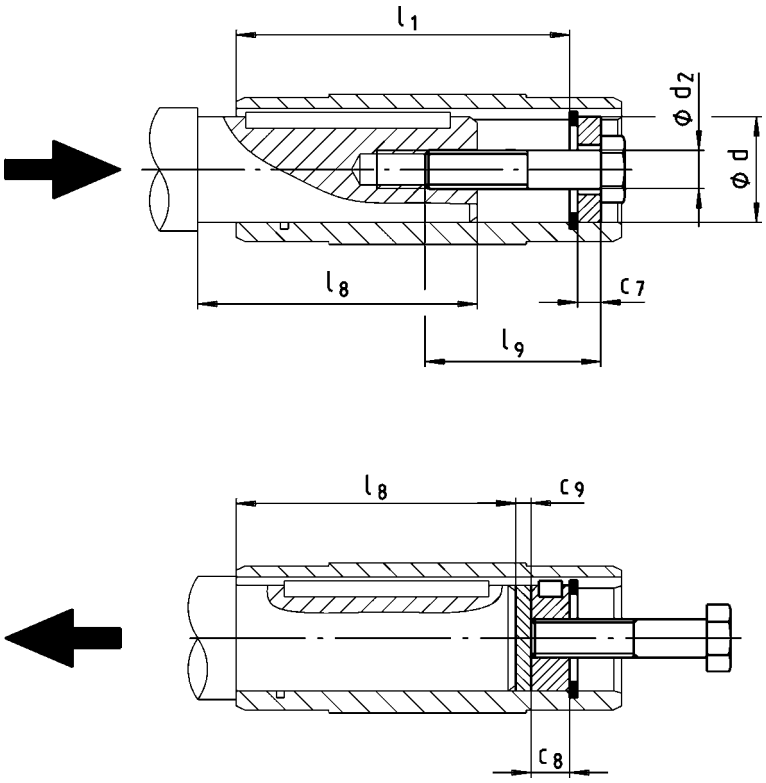
## Drehmomentstütze an Gehäusefuß in Lage 2, 4 oder 6



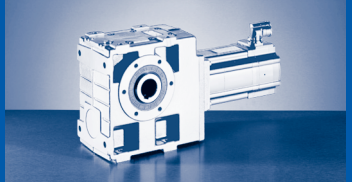

| | $a_4$ | $a_7$ | $a_8$ | $a_9$ | $b_8$ | c | d | D | $e_5$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GKS04...** | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| **GKS05...** | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| **GKS06...** | 72 | 40 | 145 | 195 | 80 | 27 | 17 | 50 | 145 | 28 |
| **GKS07...** | 78 | 50 | 170 | 240 | 100 | 28 | 21 | 60 | 180 | 35 |
| **GKS09...** | 86 | 60 | 214 | 300 | 120 | 29 | 26 | 72 | 222 | 46 |
| **GKS11...** | 94 | 72.5 | 260 | 375 | 145 | 30 | 33 | 92 | 270 | 55 |
| **GKS14...** | 100 | 85 | 320 | 465 | 180 | | 39 | 110 | 328 | 70 |



## Montagesatz Hohlwellensicherung - Gestaltungsvorschlag für Hilfswerkzeuge



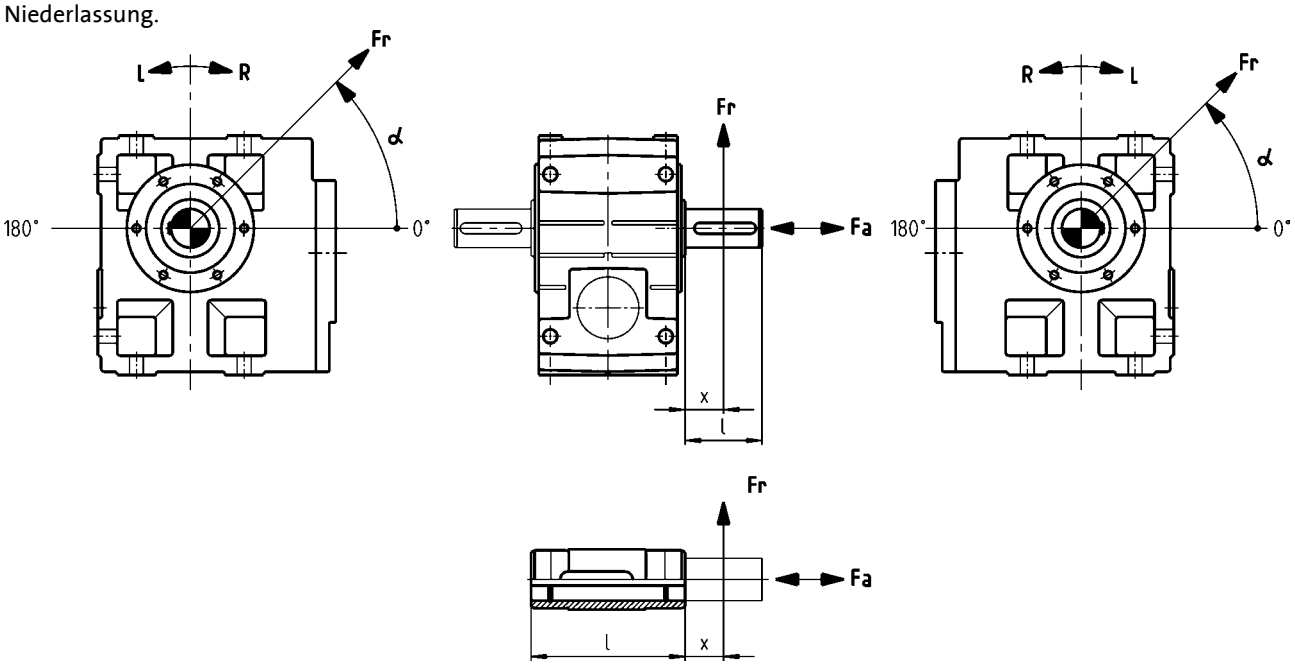

| | Hohlwelle | | Montagesatz Hohlwellensicherung (Hilfswerkzeug Montage) | | | Hilfswerkzeug Demontage | | Maschinenwelle |
|---|---|---|---|---|---|---|---|---|
| | d | $l_1$ | $d_2$ | $l_9$ | $c_7$ | $c_8$ | $c_9$ | max $l_8$ |
| | H7 | | | | | | | |
| GKS04... | 25 | 100 | M10 | 40 | 5 | 10 | 3 | 85 |
| | 30 | | | | 6 | | | |
| GKS05... | | 124 | | | | | | 107 |
| | 35 | | M12 | 50 | 7 | 12 | | |
| GKS06... | 40 | 140 | M16 | 60 | 8 | 16 | 4 | 118 |
| | 45 | | | | 9 | | | |
| GKS07... | 50 | 175 | | | 10 | | 5 | 148 |
| | 55 | | M20 | 80 | 11 | 20 | | |
| GKS09... | 60 | 210 | | | 13 | | | 182 |
| | 70 | | | | 14 | | | |
| GKS11... | | 250 | | | | | 6 | 221 |
| | 80 | | | | 16 | | | |
| GKS14... | 100 | 305 | M24 | 100 | 20 | 24 | 8 | 270 |



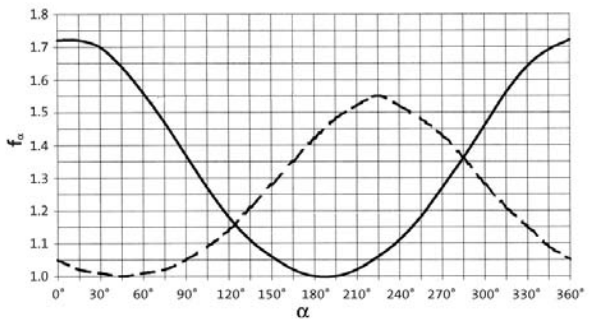
**Zulässige Radialkraft**
$Fr_{zul} = \min(f_w \times f_\alpha \times Fr_{Tab} ; f_w \times Fr_{max})$

**Zulässige Axialkraft**
$Fa_{zul} = Fa_{Tab}$ bei Fr = 0

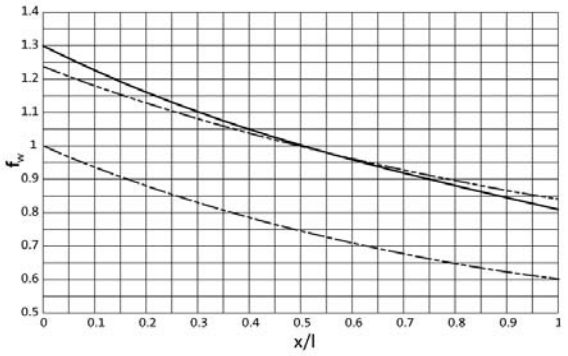
Bei Fr **und** Fa ≠ 0 halten Sie bitte Rücksprache mit Ihrer Lenze-Niederlassung.




**Wirkrichtungsfaktor $f_\alpha$ an der Abtriebswelle**




**Lastangriffsbeiwert $f_w$ an der Abtriebswelle**




——— Drehrichtung R
— — — Drehrichtung L

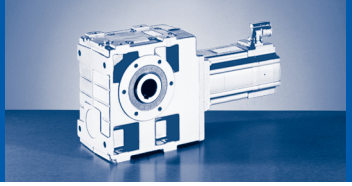
——— Vollwelle (V□R)
— — — Vollwelle mit Flansch (V□K)
— · — Hohlwelle (H□□)

| | Vollwelle ohne Flansch (V□R)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GSS04-2 | | GSS05-2/3 | | GSS06-2/3 | | GSS07-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 2200 | 2200 | 2300 | 1600 | 3400 | 1900 | 3700 | 1800 |
| **400** | 2400 | 2900 | 2500 | 2200 | 3500 | 2500 | 4000 | 2400 |
| **250** | 3000 | 3700 | 2900 | 2800 | 3600 | 3200 | 4200 | 3100 |
| **160** | 3500 | 4200 | 3400 | 3500 | 4200 | 4100 | 5100 | 4100 |
| **100** | 4100 | 4900 | 4000 | 4400 | 5000 | 5200 | 6300 | 5500 |
| **63** | 4200 | 5500 | 4300 | 5500 | 5900 | 6500 | 7700 | 7200 |
| **40** | 4200 | 5500 | 4300 | 6000 | 6900 | 8200 | 9300 | 9500 |
| **25** | 4200 | 5500 | 4300 | 6000 | 8200 | 9000 | 11300 | 12500 |
| **≤ 16** | 4200 | 5500 | 4300 | 6000 | 8500 | 9000 | 12000 | 12500 |
| **$Fr_{max}$** | 4200 | - | 4300 | - | 8500 | - | 12000 | - |

| | Vollwelle mit Flansch (V□K)<br>Kraftangriff Fr: Mitte Wellenzapfen (x=l/2)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GSS04-2 | | GSS05-2/3 | | GSS06-2/3 | | GSS07-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 2750 | 2100 | 3450 | 1500 | 5100 | 1600 | 5500 | 1400 |
| **400** | 3000 | 2800 | 3750 | 2000 | 5250 | 2200 | 6000 | 1900 |
| **250** | 4100 | 3500 | 4900 | 2500 | 7000 | 2800 | 7900 | 2400 |
| **160** | 4400 | 4000 | 4900 | 3100 | 8100 | 3500 | 9100 | 3200 |
| **100** | 4700 | 4200 | 4900 | 4000 | 9400 | 4500 | 10600 | 4300 |
| **63** | 4700 | 4200 | 4900 | 4900 | 9400 | 5700 | 12400 | 5900 |
| **40** | 4700 | 4200 | 4900 | 5500 | 9400 | 7300 | 14000 | 8000 |
| **25** | 4700 | 4200 | 4900 | 5500 | 9400 | 8800 | 14000 | 10000 |
| **≤ 16** | 4700 | 4200 | 4900 | 5500 | 9400 | 8800 | 14000 | 10000 |
| **$Fr_{max}$** | 4700 | - | 4900 | - | 9400 | - | 14000 | - |

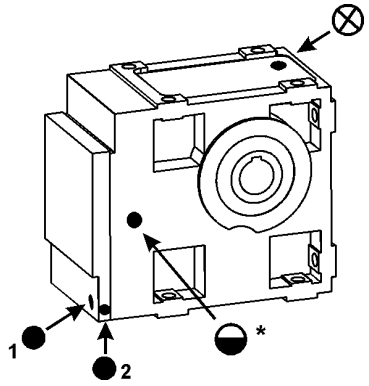
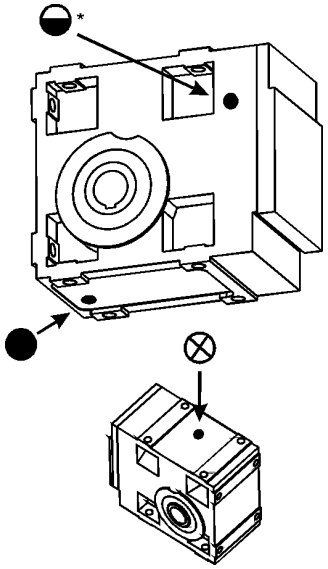
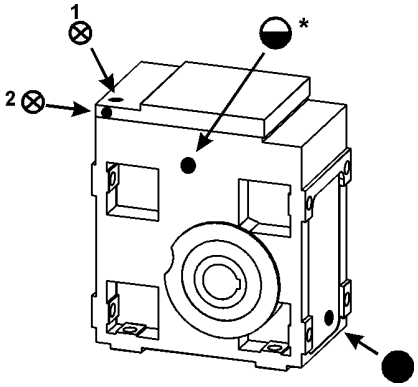
| | Hohlwelle (H□□)<br>Kraftangriff Fr: an Hohlwellenspiegel (x=0)<br>$Fa_{Tab}$ nur gültig für Fr = 0 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | GSS04-2 | | GSS05-2/3 | | GSS06-2/3 | | GSS07-2/3 | |
| $n_2$ [r/min] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] | $Fr_{Tab}$ [N] | $Fa_{Tab}$ [N] |
| **630** | 2800 | 2200 | 3000 | 1600 | 4400 | 1900 | 4600 | 1800 |
| **400** | 3000 | 2900 | 3200 | 2200 | 4600 | 2500 | 5100 | 2400 |
| **250** | 3800 | 3700 | 3600 | 2800 | 4800 | 3200 | 5600 | 3100 |
| **160** | 4500 | 4200 | 4300 | 3500 | 5600 | 4100 | 6700 | 4100 |
| **100** | 5300 | 4900 | 5100 | 4400 | 6600 | 5200 | 8200 | 5500 |
| **63** | 6000 | 5500 | 6000 | 5500 | 7700 | 6500 | 10000 | 7200 |
| **40** | 6000 | 5500 | 7000 | 6000 | 9100 | 8200 | 12100 | 9500 |
| **25** | 6000 | 5500 | 7500 | 6000 | 10700 | 9000 | 14800 | 12500 |
| **≤ 16** | 6000 | 5500 | 7500 | 6000 | 11500 | 9000 | 16000 | 12500 |
| **$Fr_{max}$** | 6000 | - | 7500 | - | 11500 | - | 16000 | - |

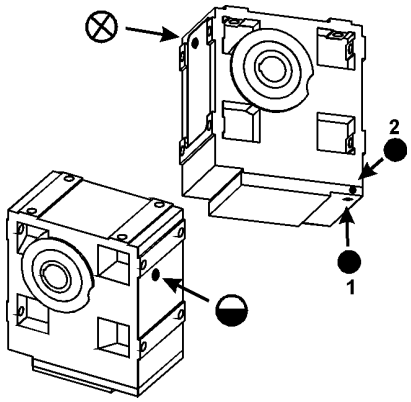
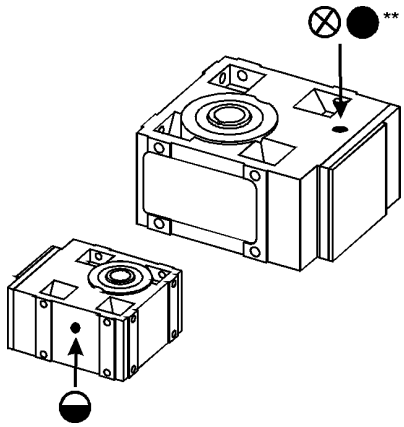
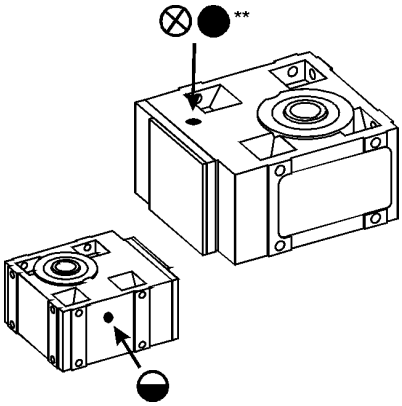
► Bei Hohlwelle mit Schrumpfscheibe (S□□) sind weder Radial- noch Axialkräfte zulässig.



## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

### GSS05...07-2

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

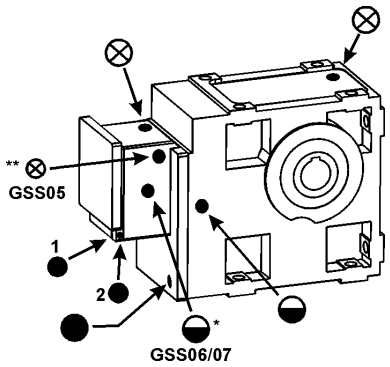
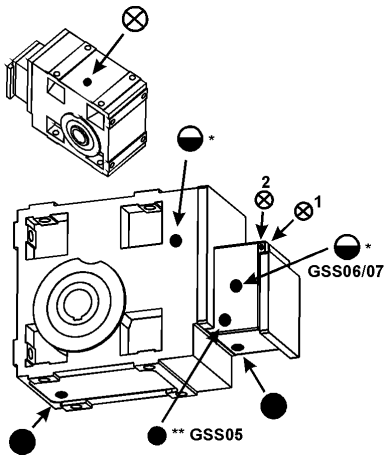
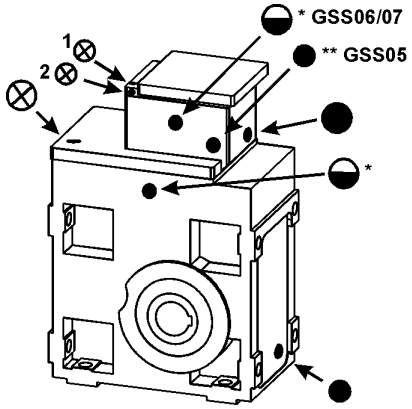
| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

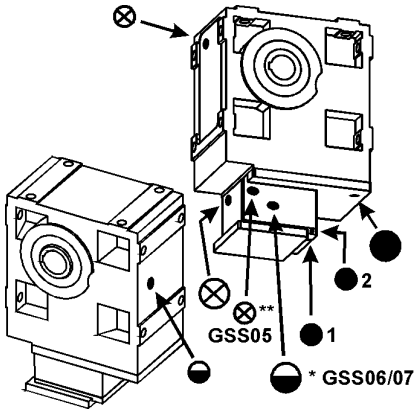
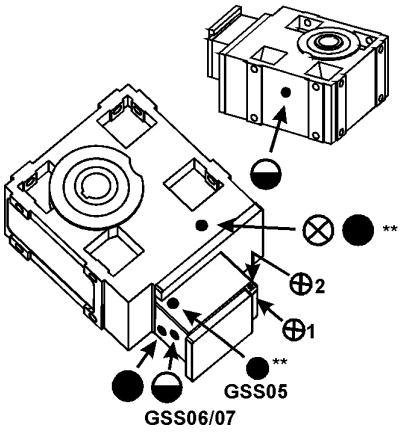
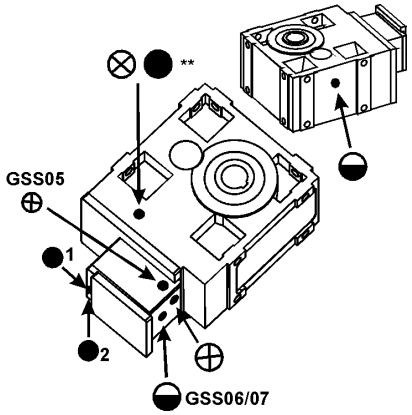
⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GSS05-2A □□□ 14LC□□

## Lage der Entlüftung, Verschlusselemente und Ölkontrolle

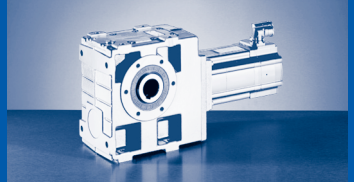
### GSS05...07-3

| Einbaulage | | |
|---|---|---|
| A | B | C |
|  |  |  |

| Einbaulage | | |
|---|---|---|
| D | E | F |
|  |  |  |

⊗ Entlüftung / Öleinfüllschraube
● Ölablassschraube
◒ Ölkontrollschraube
* Beidseitig
** Gegenüberliegend

Pos.1 Standard
Pos.2 nur bei GSS07-3A □□□ 14LC□□



## GSS□□-2S HAR / HBR...RSO B0

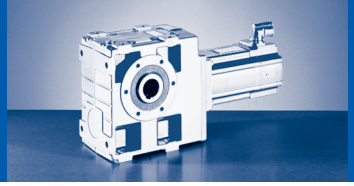
| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | 14 | 15 | | 17 | 18 | 19 | 21 | | | | | | | |
| GSS05... | 22 | 23 | | 25 | 26 | 27 | 29 | 28 | | 32 | | | 35 | |
| GSS06... | 35 | 36 | | 38 | 39 | 40 | 42 | 41 | | 44 | | | 47 | |
| GSS07... | | | | 63 | 64 | 65 | 67 | 66 | | 69 | | | 72 | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | 46 | | 51 | | 55 | | 60 | | | | | | | |
| GSS07... | 71 | | 76 | | 81 | | 86 | | 88 | | 95 | | 105 | |

## GSS□□-3S HAR / HBR...RSO B0

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS05... | 25 | | 26 | 28 | | 29 | 31 | | | | | | | |
| GSS06... | 40 | | 41 | 43 | 44 | | 46 | | | | | | | |
| GSS07... | 67 | 68 | 69 | 70 | 71 | 72 | 74 | | | 77 | | | 80 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



# GSS [kg]

## GSS□□-2A HAR / HBR...RSO B0

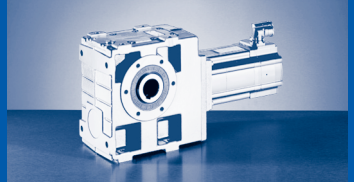
| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| GSS04... | 18 | 23 | 24 | | | | | | |
| GSS05... | 28 | 32 | 33 | 37 | | 39 | | | |
| GSS06... | 40 | 44 | 45 | 50 | | 52 | | 58 | |
| GSS07... | 65 | 69 | 70 | 75 | | 77 | | 82 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | 60 | | | | | | | | | |
| GSS07... | 85 | | 106 | | 109 | | 123 | | 126 | |

## GSS□□-3A HAR / HBR...RSO B0

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 |
|---|---|---|---|---|---|---|---|
| GSS05... | 28 | 33 | 35 | | | | |
| GSS06... | 44 | 48 | 50 | | | | |
| GSS07... | 73 | 77 | 78 | 82 | | 84 | |

Mehrgewichte beachten!
Gewichte in [kg] mit Ölfüllung für Einbaulage A, alle Angaben
ca. Werte



## Mehrgewichte Servomotoren MCS

| | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 0.3 | | | 0.8 | | | | 0.9 | | | | | | |
| ...P2 | | | | 0.5 | | | | 1.2 | | | | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.4 | | | 0.2 | | | | 0.3 | | | | | | |

| | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...P1 | 1.9 | | | | | | | | 1.5 | | | | | |
| ...P2 | 3.1 | | | | | | | | | | 4.3 | | | |
| ...SCS/SCM/SRM/SRS<br>...ECN/EQN | 0.3 | | | | | | | | | | | | | |

## Mehrgewichte Servomotoren MCA

| | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | | | | | | | | 2.4 | |
| ...P2/P6 | 0.8 | 1.4 | | 1.5 | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.3 | 0.5 | | 0.6 | | | | 0.7 | |

| | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...P1/P5 | 2.4 | | 4.8 | | | | 5.0 | | | |
| ...P2/P6 | | | | | | | | | | |
| ...CDD<br>...ECN/EQN/EQI<br>...SCS/SCM/SRM/SRS/S20<br>...T20 | 0.7 | | 1.0 | | | | 1.1 | | | |

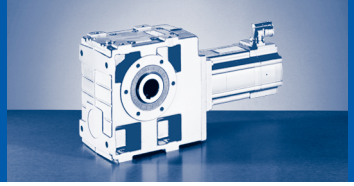
## Mehrgewichte Getriebe

| | Vollwelle | 2. Abtriebswellenende | Hohlwelle mit Schrumpfscheibe | Flansch | Drehmomentstütze Gehäusefuß | Drehmomentstütze Gewindelochkreis |
|---|---|---|---|---|---|---|
| | V□□ | V□□ | S□□ | □□K | | |
| **GSS04...** | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| **GSS05...** | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| **GSS06...** | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| **GSS07...** | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |

Gewichte in [kg]

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GSS04-2 | 5.639 | 1015 | 180 |
| | 7.733 | 1160 | 150 |
| | 9.042 | 1085 | 120 |
| | 9.897 | 1247 | 126 |
| | 10.827 | 1624 | 150 |
| | 12.400 | 1240 | 100 |
| | 13.810 | 1740 | 126 |
| | 15.869 | 1333 | 84 |
| | 17.360 | 1736 | 100 |
| | 20.417 | 1225 | 60 |
| | 22.143 | 1860 | 84 |
| | 24.800 | 1240 | 50 |
| | 27.125 | 1953 | 72 |
| | 31.738 | 1333 | 42 |
| | 34.100 | 2046 | 60 |
| | 39.200 | 1960 | 50 |
| | 43.917 | 2108 | 48 |
| | 50.000 | 2100 | 42 |
| | 54.250 | 1953 | 36 |
| | 61.250 | 2205 | |
| | 68.200 | 2046 | 30 |
| | 77.000 | 2310 | |
| | 87.833 | 2108 | 24 |
| | 99.167 | 2380 | |
| | 111.318 | 2449 | 22 |
| | 125.682 | 2765 | |
| | 139.500 | 2511 | 18 |
| | 157.500 | 2835 | |
| | 183.786 | 2573 | 14 |
| | 207.500 | 2905 | |
| GSS05-2 | 5.639 | 1015 | 180 |
| | 7.733 | 1160 | 150 |
| | 9.042 | 1085 | 120 |
| | 9.897 | 1247 | 126 |
| | 10.827 | 1624 | 150 |
| | 12.400 | 1240 | 100 |
| | 13.810 | 1740 | 126 |
| | 15.869 | 1333 | 84 |
| | 17.360 | 1736 | 100 |
| | 20.417 | 1225 | 60 |
| | 22.143 | 1860 | 84 |
| | 24.800 | 1240 | 50 |
| | 27.125 | 1953 | 72 |
| | 31.738 | 1333 | 42 |
| | 35.306 | 2542 | 72 |
| | 39.200 | 1960 | 50 |

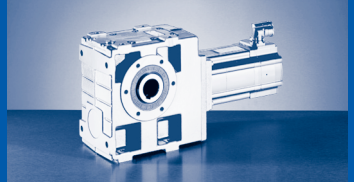


► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GSS05-2 | 43.917 | 2108 | 48 |
| | 50.000 | 2100 | 42 |
| | 54.250 | 1953 | 36 |
| | 61.250 | 2205 | |
| | 70.611 | 2542 | |
| | 79.722 | 2870 | |
| | 87.833 | 2108 | 24 |
| | 99.167 | 2380 | |
| | 113.667 | 2728 | |
| | 128.333 | 3080 | |
| | 137.950 | 2759 | 20 |
| | 155.750 | 3115 | |
| | 176.313 | 2821 | 16 |
| | 199.063 | 3185 | |
| GSS05-3 | 125.476 | 126480 | 1008 |
| | 153.708 | 132804 | 864 |
| | 193.233 | 139128 | 720 |
| | 222.133 | 133280 | 600 |
| | 250.952 | 126480 | 504 |
| | 283.333 | 142800 | |
| | 307.417 | 132804 | 432 |
| | 347.083 | 149940 | |
| | 386.467 | 139128 | 360 |
| | 436.333 | 157080 | |
| | 497.722 | 143344 | 288 |
| | 561.944 | 161840 | |
| | 630.803 | 166532 | 264 |
| | 712.197 | 188020 | |
| | 790.500 | 170748 | 216 |
| | 892.500 | 192780 | |
| | 1041.452 | 174964 | 168 |
| | 1175.833 | 197540 | |
| GSS06-2 | 5.833 | 1050 | 180 |
| | 8.000 | 1200 | 150 |
| | 9.042 | 1085 | 120 |
| | 10.238 | 1290 | 126 |
| | 11.200 | 1680 | 150 |
| | 12.400 | 1240 | 100 |
| | 14.286 | 1800 | 126 |
| | 15.869 | 1333 | 84 |
| | 17.360 | 1736 | 100 |
| | 20.417 | 1225 | 60 |
| | 22.143 | 1860 | 84 |
| | 24.800 | 1240 | 50 |
| | 27.125 | 1953 | 72 |
| | 31.738 | 1333 | 42 |

► $i_g = z_g / z_t$

| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GSS06-2 | 35.306 | 2542 | 72 |
| | 39.200 | 1960 | 50 |
| | 43.917 | 2108 | 48 |
| | 50.000 | 2100 | 42 |
| | 54.250 | 1953 | 36 |
| | 61.250 | 2205 | |
| | 70.611 | 2542 | |
| | 79.722 | 2870 | |
| | 87.833 | 2108 | 24 |
| | 99.167 | 2380 | |
| | 113.667 | 2728 | |
| | 128.333 | 3080 | |
| | 137.950 | 2759 | 20 |
| | 155.750 | 3115 | |
| | 174.375 | 2790 | 16 |
| | 196.875 | 3150 | |
| GSS06-3 | 126.531 | 111600 | 882 |
| | 142.857 | 126000 | |
| | 155.000 | 117180 | 756 |
| | 175.000 | 132300 | |
| | 194.857 | 122760 | 630 |
| | 220.000 | 138600 | |
| | 238.700 | 128898 | 540 |
| | 269.500 | 145530 | |
| | 310.689 | 167772 | |
| | 350.778 | 189420 | |
| | 386.467 | 139128 | 360 |
| | 436.333 | 157080 | |
| | 497.722 | 143344 | 288 |
| | 561.944 | 161840 | |
| | 630.803 | 166532 | 264 |
| | 712.197 | 188020 | |
| | 816.333 | 215512 | |
| | 921.667 | 243320 | |
| | 1023.000 | 220968 | 216 |
| | 1155.000 | 249480 | |
| | 1241.550 | 223479 | 180 |
| | 1401.750 | 252315 | |
| | 1635.693 | 228997 | 140 |
| | 1846.750 | 258545 | |
| GSS07-2 | 5.862 | 1020 | 174 |
| | 8.125 | 1170 | 144 |
| | 9.086 | 1054 | 116 |
| | 10.000 | 1260 | 126 |
| | 11.200 | 1680 | 150 |
| | 12.594 | 1209 | 96 |
| | 14.286 | 1800 | 126 |



► $i_g = z_g / z_t$

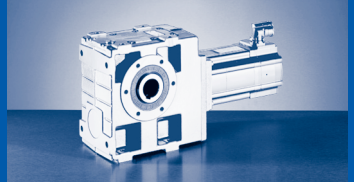
| | i | $z_g$ | $z_t$ |
|---|---|---|---|
| GSS07-2 | 15.500 | 1302 | 84 |
| | 17.360 | 1736 | 100 |
| | 20.517 | 1190 | 58 |
| | 22.143 | 1860 | 84 |
| | 25.188 | 1209 | 48 |
| | 27.125 | 1953 | 72 |
| | 31.000 | 1302 | 42 |
| | 35.306 | 2542 | 72 |
| | 39.200 | 1960 | 50 |
| | 43.271 | 2077 | 48 |
| | 50.000 | 2100 | 42 |
| | 54.250 | 1953 | 36 |
| | 61.250 | 2205 | |
| | 70.611 | 2542 | |
| | 79.722 | 2870 | |
| | 86.542 | 2077 | 24 |
| | 97.708 | 2345 | |
| | 113.667 | 2728 | |
| | 128.333 | 3080 | |
| | 137.950 | 2759 | 20 |
| | 155.750 | 3115 | |
| | 174.375 | 2790 | 16 |
| | 196.875 | 3150 | |
| GSS07-3 | 126.531 | 111600 | 882 |
| | 142.857 | 126000 | |
| | 155.000 | 117180 | 756 |
| | 175.000 | 132300 | |
| | 201.746 | 152520 | |
| | 227.778 | 172200 | |
| | 247.139 | 160146 | 648 |
| | 279.028 | 180810 | |
| | 321.673 | 208444 | |
| | 363.179 | 235340 | |
| | 394.245 | 170314 | 432 |
| | 445.116 | 192290 | |
| | 490.403 | 141236 | 288 |
| | 553.681 | 159460 | |
| | 634.639 | 182776 | |
| | 716.528 | 206360 | |
| | 833.556 | 240064 | |
| | 941.111 | 271040 | |
| | 1011.633 | 242792 | 240 |
| | 1142.167 | 274120 | |
| | 1227.755 | 245551 | 200 |
| | 1386.175 | 277235 | |
| | 1569.181 | 251069 | 160 |
| | 1771.656 | 283465 | |

## $M_{2\,GN} \leq 180$ Nm

| GSS04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 5.639 | 86 | 1.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 7<br>5.8<br>718<br>718 | | | | |
| 5.639 | 144 | 1.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 11<br>3.8<br>718<br>718 | 15<br>2.8<br>665<br>665 | 19<br>2.3<br>718<br>718 | 22<br>2.0<br>718<br>718 |
| 7.733 | 158 | 0.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 15<br>4.7<br>524<br>524 | 21<br>3.5<br>485<br>485 | 26<br>2.8<br>524<br>524 | 31<br>2.4<br>524<br>524 |
| 9.042 | 154 | 0.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 18<br>5.3<br>448<br>448 | 24<br>3.9<br>415<br>415 | 30<br>3.2<br>448<br>448 | 35<br>2.7<br>448<br>448 |
| 9.897 | 161 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 20<br>5.0<br>409<br>409 | 27<br>3.7<br>379<br>379 | 33<br>3.0<br>409<br>409 | 39<br>2.5<br>409<br>409 |
| 10.827 | 161 | 0.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 21<br>5.0<br>374<br>374 | 29<br>3.7<br>346<br>346 | 36<br>3.0<br>374<br>374 | 43<br>2.6<br>374<br>374 |
| 12.400 | 170 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 24<br>4.8<br>327<br>327 | 33<br>3.5<br>302<br>302 | 41<br>2.9<br>327<br>327 | 49<br>2.4<br>327<br>327 |
| 13.810 | 163 | 0.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 27<br>5.0<br>293<br>293 | 38<br>3.7<br>272<br>272 | 46<br>3.0<br>293<br>293 | 55<br>2.6<br>293<br>293 |
| 15.869 | 180 | 0.33 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 31<br>4.1<br>255<br>255 | 43<br>3.0<br>236<br>236 | 53<br>2.5<br>255<br>255 | 63<br>2.1<br>255<br>255 |
| 17.360 | 180 | 0.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 22<br>5.9<br>233<br>233 | 34<br>3.8<br>233<br>233 | 47<br>2.9<br>216<br>216 | 58<br>2.3<br>233<br>233 | 69<br>2.0<br>233<br>233 |
| 20.417 | 153 | 0.67 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 19<br>5.4<br>198<br>198 | 24<br>4.3<br>198<br>198 | 37<br>2.8<br>198<br>198 | 50<br>2.1<br>184<br>184 | 62<br>1.7<br>198<br>198 | 73<br>1.4<br>198<br>198 |
| 22.143 | 180 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 28<br>5.0<br>183<br>183 | 44<br>3.3<br>183<br>183 | 60<br>2.4<br>169<br>169 | 74<br>2.0<br>183<br>183 | 87<br>1.7<br>183<br>183 |
| 24.800 | 171 | 0.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 23<br>4.9<br>163<br>163 | 30<br>3.9<br>163<br>163 | 46<br>2.6<br>163<br>163 | 63<br>1.9<br>151<br>151 | 77<br>1.6<br>163<br>163 | 91<br>1.3<br>163<br>163 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 180$ Nm

| GSS04-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 27.125 | 180 | 0.14 | $M_2$ | | 27 | 35 | 54 | 73 | 90 | 107 |
| | | | c | | 5.5 | 4.4 | 2.9 | 2.1 | 1.7 | 1.5 |
| | | | $n_{2\,Eck}$ | | 149 | 149 | 149 | 138 | 149 | 149 |
| | | | $n_{2\,th}$ | | 149 | 149 | 149 | 138 | 149 | 149 |
| 31.738 | 180 | 0.29 | $M_2$ | | 30 | 38 | 59 | 80 | 99 | 117 |
| | | | c | | 4.2 | 3.3 | 2.2 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 128 | 128 | 128 | 118 | 128 | 128 |
| | | | $n_{2\,th}$ | | 128 | 128 | 128 | 118 | 128 | 128 |
| 34.100 | 180 | 0.10 | $M_2$ | | 34 | 44 | | | | |
| | | | c | | 4.7 | 3.8 | | | | |
| | | | $n_{2\,Eck}$ | | 119 | 119 | | | | |
| | | | $n_{2\,th}$ | | 119 | 119 | | | | |
| 39.200 | 180 | 0.25 | $M_2$ | | 37 | 46 | 72 | 97 | 119 | |
| | | | c | | 3.6 | 2.9 | 1.9 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 103 | 103 | 103 | 96 | 103 | |
| | | | $n_{2\,th}$ | | 103 | 103 | 103 | 96 | 103 | |
| 43.917 | 180 | 0.06 | $M_2$ | | 45 | 56 | | | | |
| | | | c | | 3.9 | 3.1 | | | | |
| | | | $n_{2\,Eck}$ | | 92 | 92 | | | | |
| | | | $n_{2\,th}$ | | 92 | 92 | | | | |
| 50.000 | 180 | 0.17 | $M_2$ | | 47 | 59 | 91 | 123 | | |
| | | | c | | 3.1 | 2.4 | 1.6 | 1.2 | | |
| | | | $n_{2\,Eck}$ | | 81 | 81 | 81 | 75 | | |
| | | | $n_{2\,th}$ | | 81 | 81 | 81 | 75 | | |
| 54.250 | 180 | 0.13 | $M_2$ | 25 | 52 | 65 | 101 | 136 | | |
| | | | c | 5.9 | 3.0 | 2.4 | 1.6 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 75 | 75 | 75 | 75 | 69 | | |
| | | | $n_{2\,th}$ | 75 | 75 | 75 | 75 | 69 | | |
| 61.250 | 180 | 0.13 | $M_2$ | 28 | 57 | 72 | 111 | 150 | | |
| | | | c | 5.4 | 2.7 | 2.2 | 1.4 | 1.0 | | |
| | | | $n_{2\,Eck}$ | 66 | 66 | 66 | 66 | 61 | | |
| | | | $n_{2\,th}$ | 66 | 66 | 66 | 66 | 61 | | |
| 68.200 | 180 | 0.09 | $M_2$ | 31 | 65 | 81 | | | | |
| | | | c | 5.1 | 2.6 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 59 | 59 | 59 | | | | |
| | | | $n_{2\,th}$ | 59 | 59 | 59 | | | | |
| 77.000 | 180 | 0.09 | $M_2$ | 35 | 71 | 90 | | | | |
| | | | c | 4.7 | 2.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 53 | 53 | 53 | | | | |
| | | | $n_{2\,th}$ | 53 | 53 | 53 | | | | |
| 87.833 | 180 | 0.06 | $M_2$ | 40 | 83 | 104 | | | | |
| | | | c | 4.3 | 2.1 | 1.7 | | | | |
| | | | $n_{2\,Eck}$ | 46 | 46 | 46 | | | | |
| | | | $n_{2\,th}$ | 46 | 46 | 46 | | | | |
| 99.167 | 180 | 0.06 | $M_2$ | 45 | 92 | 115 | | | | |
| | | | c | 3.9 | 1.9 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 41 | 41 | 41 | | | | |
| | | | $n_{2\,th}$ | 41 | 41 | 41 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

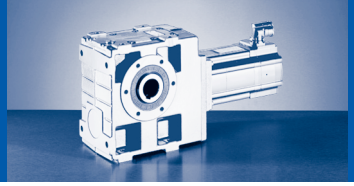
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 5.639 | 175 | 2.82 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 18<br>5.7<br>718<br>718 | 22<br>4.8<br>718<br>718 |
| 5.639 | 223 | 2.82 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 7.733 | 212 | 1.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 25<br>5.2<br>524<br>524 | 30<br>4.4<br>524<br>524 |
| 7.733 | 267 | 1.66 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 9.042 | 251 | 2.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 17<br>5.8<br>448<br>448 | 23<br>4.3<br>415<br>415 | 29<br>3.5<br>448<br>448 | 34<br>3.0<br>448<br>448 |
| 9.897 | 228 | 1.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 26<br>5.9<br>379<br>379 | 33<br>4.8<br>409<br>409 | 39<br>4.1<br>409<br>409 |
| 9.897 | 271 | 1.10 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 10.827 | 238 | 0.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 29<br>5.7<br>346<br>346 | 36<br>4.7<br>374<br>374 | 43<br>4.0<br>374<br>374 |
| 10.827 | 272 | 0.94 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 12.400 | 279 | 1.24 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 32<br>4.9<br>302<br>302 | 40<br>4.0<br>327<br>327 | 48<br>3.4<br>327<br>327 |
| 13.810 | 256 | 0.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 37<br>5.3<br>272<br>272 | 46<br>4.4<br>293<br>293 | 55<br>3.7<br>293<br>293 |
| 13.810 | 275 | 0.64 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | |
| 15.869 | 301 | 0.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 42<br>4.9<br>236<br>236 | 51<br>4.0<br>255<br>255 | 61<br>3.4<br>255<br>255 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 360$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GSS05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.82 | 175 | 5.639 |
| | 21<br>5.1<br>718<br>718 | 50<br>4.4<br>266<br>266 | 40<br>3.4<br>532<br>532 | 37<br>2.9<br>625<br>625 | 68<br>2.5<br>346<br>346 | 55<br>2.0<br>718<br>718 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.82 | 223 | 5.639 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 212 | 7.733 |
| 37<br>5.7<br>252<br>252 | 29<br>4.6<br>524<br>524 | 69<br>3.8<br>194<br>194 | 55<br>3.0<br>388<br>388 | 51<br>2.6<br>456<br>456 | 94<br>2.3<br>252<br>252 | 76<br>1.8<br>524<br>524 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.66 | 267 | 7.733 |
| 42<br>5.1<br>216<br>216 | 33<br>3.1<br>448<br>448 | 78<br>3.1<br>166<br>166 | 62<br>2.6<br>332<br>332 | 58<br>1.8<br>390<br>390 | 106<br>2.1<br>216<br>216 | 86<br>1.2<br>448<br>448 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.01 | 251 | 9.042 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.10 | 228 | 9.897 |
| 47<br>5.2<br>197<br>197 | 37<br>4.2<br>409<br>409 | 89<br>3.0<br>152<br>152 | 71<br>2.8<br>303<br>303 | 66<br>2.4<br>356<br>356 | 120<br>2.1<br>197<br>197 | 98<br>1.7<br>409<br>409 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.10 | 271 | 9.897 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.94 | 238 | 10.827 |
| 52<br>4.9<br>180<br>180 | 41<br>4.1<br>374<br>374 | 97<br>2.8<br>139<br>139 | 77<br>2.8<br>277<br>277 | 73<br>2.4<br>326<br>326 | 132<br>2.0<br>180<br>180 | 107<br>1.6<br>374<br>374 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.94 | 272 | 10.827 |
| 58<br>4.1<br>157<br>157 | 45<br>3.5<br>327<br>327 | 108<br>2.5<br>121<br>121 | 86<br>2.5<br>242<br>242 | 81<br>2.0<br>284<br>284 | 147<br>1.7<br>157<br>157 | 119<br>1.4<br>327<br>327 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.24 | 279 | 12.400 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.64 | 256 | 13.810 |
| 67<br>3.9<br>141<br>141 | 52<br>3.8<br>293<br>293 | 125<br>2.2<br>109<br>109 | 99<br>2.6<br>217<br>217 | 93<br>2.2<br>255<br>255 | 170<br>1.6<br>141<br>141 | 138<br>1.5<br>293<br>293 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.64 | 275 | 13.810 |
| 75<br>3.5<br>123<br>123 | 58<br>3.5<br>255<br>255 | 139<br>2.1<br>95<br>95 | 111<br>2.1<br>189<br>189 | 104<br>2.0<br>222<br>222 | 189<br>1.4<br>123<br>123 | 153<br>1.4<br>255<br>255 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.84 | 301 | 15.869 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

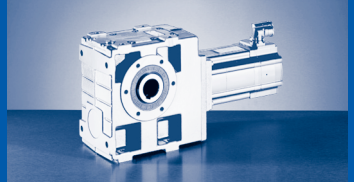
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 17.360 | 311 | 0.72 | $M_2$ | | | | | 46 | 56 | 67 |
| | | | c | | | | | 4.6 | 3.8 | 3.2 |
| | | | $n_{2\,Eck}$ | | | | | 216 | 233 | 233 |
| | | | $n_{2\,th}$ | | | | | 216 | 233 | 233 |
| 20.417 | 253 | 1.60 | $M_2$ | | | | 35 | 48 | 59 | 70 |
| | | | c | | | | 3.6 | 2.6 | 2.2 | 1.8 |
| | | | $n_{2\,Eck}$ | | | | 198 | 184 | 198 | 198 |
| | | | $n_{2\,th}$ | | | | 198 | 184 | 198 | 198 |
| 22.143 | 337 | 0.50 | $M_2$ | | | | 43 | 59 | 73 | 87 |
| | | | c | | | | 5.3 | 3.9 | 3.2 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 183 | 169 | 183 | 183 |
| | | | $n_{2\,th}$ | | | | 183 | 169 | 183 | 183 |
| 24.800 | 280 | 1.06 | $M_2$ | | | | 44 | 61 | 75 | 89 |
| | | | c | | | | 3.8 | 2.9 | 2.3 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 163 | 151 | 163 | 163 |
| | | | $n_{2\,th}$ | | | | 163 | 151 | 163 | 163 |
| 27.125 | 360 | 0.38 | $M_2$ | | | | 53 | 73 | 90 | 107 |
| | | | c | | | | 4.6 | 3.4 | 2.8 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 149 | 138 | 149 | 149 |
| | | | $n_{2\,th}$ | | | | 149 | 138 | 149 | 149 |
| 31.738 | 306 | 0.73 | $M_2$ | | | 37 | 58 | 79 | 97 | 115 |
| | | | c | | | 5.4 | 3.5 | 2.6 | 2.1 | 1.8 |
| | | | $n_{2\,Eck}$ | | | 128 | 128 | 118 | 128 | 128 |
| | | | $n_{2\,th}$ | | | 128 | 128 | 118 | 128 | 128 |
| 35.306 | 296 | 0.23 | $M_2$ | | | 44 | | | | |
| | | | c | | | 5.9 | | | | |
| | | | $n_{2\,Eck}$ | | | 115 | | | | |
| | | | $n_{2\,th}$ | | | 115 | | | | |
| 35.306 | 360 | 0.23 | $M_2$ | | | | 70 | 95 | 117 | 139 |
| | | | c | | | | 3.9 | 2.9 | 2.4 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 115 | 106 | 115 | 115 |
| | | | $n_{2\,th}$ | | | | 115 | 106 | 115 | 115 |
| 39.200 | 323 | 0.61 | $M_2$ | | 35 | 45 | 70 | 96 | 118 | 140 |
| | | | c | | 5.9 | 4.7 | 3.1 | 2.3 | 1.9 | 1.6 |
| | | | $n_{2\,Eck}$ | | 103 | 103 | 103 | 96 | 103 | 103 |
| | | | $n_{2\,th}$ | | 103 | 103 | 103 | 96 | 103 | 103 |
| 43.917 | 306 | 0.17 | $M_2$ | | | 56 | | | | |
| | | | c | | | 5.1 | | | | |
| | | | $n_{2\,Eck}$ | | | 92 | | | | |
| | | | $n_{2\,th}$ | | | 92 | | | | |
| 43.917 | 360 | 0.17 | $M_2$ | | | | 87 | 119 | 146 | 174 |
| | | | c | | | | 3.4 | 2.5 | 2.0 | 1.7 |
| | | | $n_{2\,Eck}$ | | | | 92 | 85 | 92 | 92 |
| | | | $n_{2\,th}$ | | | | 92 | 85 | 92 | 92 |
| 50.000 | 353 | 0.44 | $M_2$ | | 46 | 58 | 91 | 123 | 152 | 181 |
| | | | c | | 5.0 | 4.0 | 2.6 | 1.9 | 1.6 | 1.3 |
| | | | $n_{2\,Eck}$ | | 81 | 81 | 81 | 75 | 81 | 81 |
| | | | $n_{2\,th}$ | | 81 | 81 | 81 | 75 | 81 | 81 |
| 54.250 | 360 | 0.34 | $M_2$ | | 51 | 65 | 101 | 137 | 169 | 200 |
| | | | c | | 4.8 | 3.8 | 2.5 | 1.9 | 1.5 | 1.3 |
| | | | $n_{2\,Eck}$ | | 75 | 75 | 75 | 69 | 75 | 75 |
| | | | $n_{2\,th}$ | | 75 | 75 | 75 | 69 | 75 | 75 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 360$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GSS05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 83 | 64 | 152 | 122 | 114 | 207 | 168 | $M_2$ | 0.72 | 311 | 17.360 |
| 3.3 | 3.3 | 2.0 | 2.0 | 1.9 | 1.3 | 1.3 | c | | | |
| 112 | 233 | 86 | 173 | 203 | 112 | 233 | $n_{2\,Eck}$ | | | |
| 112 | 233 | 86 | 173 | 203 | 112 | 233 | $n_{2\,th}$ | | | |
| 88 | 67 | 163 | 128 | 118 | 220 | | $M_2$ | 1.60 | 253 | 20.417 |
| 2.5 | 1.9 | 1.5 | 1.4 | 1.1 | 1.0 | | c | | | |
| 96 | 198 | 74 | 147 | 173 | 96 | | $n_{2\,Eck}$ | | | |
| 96 | 198 | 73 | 147 | 173 | 96 | | $n_{2\,th}$ | | | |
| 106 | 83 | 195 | 156 | 146 | 265 | 215 | $M_2$ | 0.50 | 337 | 22.143 |
| 2.8 | 2.8 | 1.7 | 1.7 | 1.6 | 1.1 | 1.1 | c | | | |
| 88 | 183 | 68 | 136 | 159 | 88 | 183 | $n_{2\,Eck}$ | | | |
| 88 | 183 | 68 | 135 | 159 | 88 | 183 | $n_{2\,th}$ | | | |
| 110 | 85 | 203 | 161 | 150 | | | $M_2$ | 1.06 | 280 | 24.800 |
| 2.2 | 2.1 | 1.4 | 1.3 | 1.2 | | | c | | | |
| 79 | 163 | 61 | 121 | 142 | | | $n_{2\,Eck}$ | | | |
| 79 | 163 | 60 | 121 | 142 | | | $n_{2\,th}$ | | | |
| 130 | 102 | 240 | 192 | 180 | | | $M_2$ | 0.38 | 360 | 27.125 |
| 2.4 | 2.5 | 1.5 | 1.5 | 1.4 | | | c | | | |
| 72 | 149 | 55 | 111 | 130 | | | $n_{2\,Eck}$ | | | |
| 72 | 149 | 55 | 111 | 130 | | | $n_{2\,th}$ | | | |
| 142 | 110 | 261 | 208 | 194 | | | $M_2$ | 0.73 | 306 | 31.738 |
| 1.9 | 1.9 | 1.2 | 1.1 | 1.1 | | | c | | | |
| 61 | 128 | 47 | 95 | 111 | | | $n_{2\,Eck}$ | | | |
| 61 | 128 | 47 | 95 | 111 | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.23 | 296 | 35.306 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.23 | 360 | 35.306 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 173 | 134 | 317 | | | | | $M_2$ | 0.61 | 323 | 39.200 |
| 1.6 | 1.6 | 1.0 | | | | | c | | | |
| 50 | 103 | 38 | | | | | $n_{2\,Eck}$ | | | |
| 50 | 103 | 38 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.17 | 306 | 43.917 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | $M_2$ | 0.17 | 360 | 43.917 |
| | | | | | | | c | | | |
| | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | $n_{2\,th}$ | | | |
| 221 | 172 | | | | | | $M_2$ | 0.44 | 353 | 50.000 |
| 1.4 | 1.4 | | | | | | c | | | |
| 39 | 81 | | | | | | $n_{2\,Eck}$ | | | |
| 39 | 81 | | | | | | $n_{2\,th}$ | | | |
| 245 | 191 | | | | | | $M_2$ | 0.34 | 360 | 54.250 |
| 1.3 | 1.3 | | | | | | c | | | |
| 36 | 75 | | | | | | $n_{2\,Eck}$ | | | |
| 36 | 75 | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

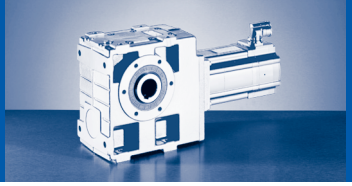
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-2S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 |
| 61.250 | 360 | 0.33 | $M_2$ | | 57 | 72 | 112 | 152 | 187 | 222 |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 |
| | | | $n_{2\,Eck}$ | | 66 | 66 | 66 | 61 | 66 | 66 |
| | | | $n_{2\,th}$ | | 66 | 66 | 66 | 61 | 66 | 66 |
| 70.611 | 360 | 0.21 | $M_2$ | | 67 | 85 | 132 | 179 | 220 | 262 |
| | | | c | | 4.1 | 3.2 | 2.1 | 1.6 | 1.3 | 1.1 |
| | | | $n_{2\,Eck}$ | | 57 | 57 | 57 | 53 | 57 | 57 |
| | | | $n_{2\,th}$ | | 57 | 57 | 57 | 53 | 57 | 57 |
| 79.722 | 360 | 0.21 | $M_2$ | | 75 | 94 | 147 | 199 | 245 | |
| | | | c | | 3.7 | 3.0 | 1.9 | 1.4 | 1.2 | |
| | | | $n_{2\,Eck}$ | | 51 | 51 | 51 | 47 | 51 | |
| | | | $n_{2\,th}$ | | 51 | 51 | 51 | 47 | 51 | |
| 87.833 | 360 | 0.15 | $M_2$ | | 84 | 106 | 165 | 223 | 275 | |
| | | | c | | 3.5 | 2.8 | 1.8 | 1.4 | 1.1 | |
| | | | $n_{2\,Eck}$ | | 46 | 46 | 46 | 43 | 46 | |
| | | | $n_{2\,th}$ | | 46 | 46 | 46 | 43 | 46 | |
| 99.167 | 360 | 0.15 | $M_2$ | | 94 | 118 | 183 | 248 | 305 | |
| | | | c | | 3.2 | 2.6 | 1.7 | 1.3 | 1.0 | |
| | | | $n_{2\,Eck}$ | | 41 | 41 | 41 | 38 | 41 | |
| | | | $n_{2\,th}$ | | 41 | 41 | 41 | 38 | 41 | |
| 113.667 | 360 | 0.10 | $M_2$ | 53 | 110 | 138 | | | | |
| | | | c | 6.0 | 3.0 | 2.4 | | | | |
| | | | $n_{2\,Eck}$ | 36 | 36 | 36 | | | | |
| | | | $n_{2\,th}$ | 36 | 36 | 36 | | | | |
| 128.333 | 360 | 0.09 | $M_2$ | 59 | 122 | 154 | | | | |
| | | | c | 5.5 | 2.8 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 32 | 32 | 32 | | | | |
| | | | $n_{2\,th}$ | 32 | 32 | 32 | | | | |
| 137.950 | 360 | 0.07 | $M_2$ | 65 | 134 | 168 | | | | |
| | | | c | 5.3 | 2.6 | 2.1 | | | | |
| | | | $n_{2\,Eck}$ | 29 | 29 | 29 | | | | |
| | | | $n_{2\,th}$ | 29 | 29 | 29 | | | | |
| 155.750 | 360 | 0.07 | $M_2$ | 72 | 149 | 187 | | | | |
| | | | c | 4.8 | 2.4 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 26 | 26 | 26 | | | | |
| | | | $n_{2\,th}$ | 26 | 26 | 26 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 360$ Nm

| 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | GSS05-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | $n_1$ | | | |
| 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | $I_{M\,230}$ | | | |
| 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | $I_{M\,400}$ | | | |
| 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | $P_N$ | | | |
| 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | $J_M$ | | | |
| 272<br>1.2<br>32<br>32 | 212<br>1.2<br>66<br>66 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.33 | 360 | 61.250 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.21 | 360 | 70.611 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.21 | 360 | 79.722 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.15 | 360 | 87.833 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.15 | 360 | 99.167 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.10 | 360 | 113.667 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.09 | 360 | 128.333 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.07 | 360 | 137.950 |
| | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.07 | 360 | 155.750 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

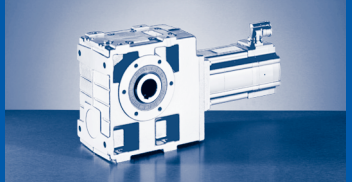
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 |
|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 |
| 125.476 | 339 | 0.15 | $M_2$ | 63 | 129 | 163 | 251 |
| | | | c | 4.0 | 2.0 | 1.6 | 1.0 |
| | | | $n_{2\,Eck}$ | 32 | 32 | 32 | 32 |
| | | | $n_{2\,th}$ | 32 | 32 | 32 | 32 |
| 153.708 | 356 | 0.12 | $M_2$ | 77 | 158 | 198 | |
| | | | c | 3.5 | 1.7 | 1.4 | |
| | | | $n_{2\,Eck}$ | 26 | 26 | 26 | |
| | | | $n_{2\,th}$ | 26 | 26 | 26 | |
| 193.233 | 360 | 0.08 | $M_2$ | 97 | 197 | 247 | |
| | | | c | 3.0 | 1.5 | 1.2 | |
| | | | $n_{2\,Eck}$ | 21 | 21 | 21 | |
| | | | $n_{2\,th}$ | 21 | 21 | 21 | |
| 222.133 | 360 | 0.21 | $M_2$ | 103 | 210 | 263 | |
| | | | c | 3.4 | 1.7 | 1.4 | |
| | | | $n_{2\,Eck}$ | 18 | 18 | 18 | |
| | | | $n_{2\,th}$ | 18 | 18 | 18 | |
| 250.952 | 360 | 0.15 | $M_2$ | 118 | 240 | 301 | |
| | | | c | 3.0 | 1.5 | 1.2 | |
| | | | $n_{2\,Eck}$ | 16 | 16 | 16 | |
| | | | $n_{2\,th}$ | 16 | 16 | 16 | |
| 283.333 | 360 | 0.15 | $M_2$ | 130 | 265 | 332 | |
| | | | c | 2.7 | 1.3 | 1.1 | |
| | | | $n_{2\,Eck}$ | 14 | 14 | 14 | |
| | | | $n_{2\,th}$ | 14 | 14 | 14 | |
| 307.417 | 360 | 0.12 | $M_2$ | 143 | 291 | | |
| | | | c | 2.5 | 1.2 | | |
| | | | $n_{2\,Eck}$ | 13 | 13 | | |
| | | | $n_{2\,th}$ | 13 | 13 | | |
| 347.083 | 360 | 0.11 | $M_2$ | 158 | 321 | | |
| | | | c | 2.2 | 1.1 | | |
| | | | $n_{2\,Eck}$ | 12 | 12 | | |
| | | | $n_{2\,th}$ | 12 | 12 | | |
| 386.467 | 360 | 0.08 | $M_2$ | 178 | | | |
| | | | c | 2.0 | | | |
| | | | $n_{2\,Eck}$ | 11 | | | |
| | | | $n_{2\,th}$ | 10 | | | |
| 436.333 | 360 | 0.08 | $M_2$ | 197 | | | |
| | | | c | 1.8 | | | |
| | | | $n_{2\,Eck}$ | 9 | | | |
| | | | $n_{2\,th}$ | 9 | | | |
| 497.722 | 360 | 0.05 | $M_2$ | 226 | | | |
| | | | c | 1.6 | | | |
| | | | $n_{2\,Eck}$ | 8 | | | |
| | | | $n_{2\,th}$ | 8 | | | |
| 561.944 | 360 | 0.05 | $M_2$ | 249 | | | |
| | | | c | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 7 | | | |
| | | | $n_{2\,th}$ | 7 | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

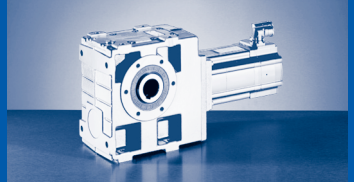


## $M_{2\,GN} \leq 720$ Nm

| GSS06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 5.833 | 308 | 6.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 22<br>5.4<br>694<br>694 | 51<br>5.8<br>257<br>257 | 41<br>4.5<br>514<br>514 |
| 5.833 | 356 | 6.97 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 8.000 | 353 | 4.22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 71<br>4.8<br>188<br>188 | 56<br>4.6<br>375<br>375 |
| 8.000 | 489 | 4.22 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 9.042 | 417 | 5.54 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 33<br>5.9<br>448<br>448 | 77<br>5.1<br>166<br>166 | 63<br>3.9<br>332<br>332 |
| 10.238 | 380 | 2.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 91<br>4.0<br>147<br>147 | 72<br>4.4<br>293<br>293 |
| 10.238 | 522 | 2.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 11.200 | 308 | 2.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 44<br>6.0<br>362<br>362 | | | | |
| 11.200 | 398 | 2.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | 100<br>3.9<br>134<br>134 | 79<br>4.2<br>268<br>268 |
| 11.200 | 524 | 2.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 12.400 | 523 | 3.46 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 46<br>5.3<br>327<br>327 | 107<br>4.7<br>121<br>121 | 87<br>3.6<br>242<br>242 |
| 14.286 | 331 | 1.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 56<br>5.6<br>284<br>284 | | | | |
| 14.286 | 428 | 1.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 69<br>5.9<br>137<br>137 | 53<br>5.9<br>284<br>284 | 129<br>3.3<br>105<br>105 | 102<br>4.1<br>210<br>210 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GSS06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 38 | 70 | 57 | | | | | | | | | $M_2$ | 6.97 | 308 | 5.833 |
| 3.7 | 3.9 | 2.1 | | | | | | | | | c | | | |
| 604 | 334 | 694 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 604 | 334 | 694 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | 39 | 83 | 73 | 121 | 90 | 158 | 110 | $M_2$ | 6.97 | 356 | 5.833 |
| | | | | 3.1 | 4.2 | 2.0 | 2.9 | 1.6 | 2.2 | 1.3 | c | | | |
| | | | | 617 | 257 | 553 | 257 | 553 | 231 | 553 | $n_{2\,Eck}$ | | | |
| | | | | 615 | 257 | 553 | 257 | 553 | 231 | 553 | $n_{2\,th}$ | | | |
| 53 | 96 | 79 | | | | | | | | | $M_2$ | 4.22 | 353 | 8.000 |
| 4.1 | 3.6 | 2.4 | | | | | | | | | c | | | |
| 441 | 244 | 506 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 441 | 244 | 506 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | 53 | 114 | 101 | 166 | 124 | 218 | 152 | $M_2$ | 4.22 | 489 | 8.000 |
| | | | | 3.5 | 4.2 | 2.2 | 2.9 | 1.8 | 2.2 | 1.5 | c | | | |
| | | | | 450 | 188 | 403 | 188 | 403 | 169 | 403 | $n_{2\,Eck}$ | | | |
| | | | | 449 | 188 | 403 | 188 | 403 | 169 | 403 | $n_{2\,th}$ | | | |
| 59 | 107 | 88 | 71 | 59 | 127 | 112 | 184 | 139 | 242 | 170 | $M_2$ | 5.54 | 417 | 9.042 |
| 3.7 | 3.0 | 2.3 | 5.6 | 3.4 | 3.2 | 2.0 | 2.2 | 1.6 | 1.7 | 1.3 | c | | | |
| 390 | 216 | 448 | 166 | 398 | 166 | 357 | 166 | 357 | 149 | 357 | $n_{2\,Eck}$ | | | |
| 390 | 216 | 448 | 166 | 397 | 166 | 357 | 166 | 357 | 149 | 357 | $n_{2\,th}$ | | | |
| 68 | 124 | 101 | | | | | | | | | $M_2$ | 2.81 | 380 | 10.238 |
| 4.0 | 3.0 | 2.5 | | | | | | | | | c | | | |
| 344 | 191 | 396 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 344 | 190 | 396 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | 68 | 147 | 129 | 214 | 160 | 280 | 195 | $M_2$ | 2.81 | 522 | 10.238 |
| | | | | 3.6 | 3.5 | 2.2 | 2.4 | 1.8 | 1.9 | 1.4 | c | | | |
| | | | | 352 | 147 | 315 | 147 | 315 | 132 | 315 | $n_{2\,Eck}$ | | | |
| | | | | 351 | 147 | 315 | 147 | 315 | 132 | 315 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.39 | 308 | 11.200 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 74 | 136 | 111 | | | | | | | | | $M_2$ | 2.39 | 398 | 11.200 |
| 4.0 | 2.9 | 2.4 | | | | | | | | | c | | | |
| 315 | 174 | 362 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 315 | 174 | 362 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 90 | 75 | 161 | 142 | 234 | 175 | 307 | 214 | $M_2$ | 2.39 | 524 | 11.200 |
| | | | 5.5 | 3.6 | 3.2 | 2.1 | 2.2 | 1.7 | 1.7 | 1.4 | c | | | |
| | | | 134 | 321 | 134 | 288 | 134 | 288 | 121 | 288 | $n_{2\,Eck}$ | | | |
| | | | 134 | 321 | 134 | 288 | 134 | 288 | 121 | 288 | $n_{2\,th}$ | | | |
| 81 | 147 | 121 | 98 | 82 | 174 | 155 | 252 | 191 | 331 | 234 | $M_2$ | 3.46 | 523 | 12.400 |
| 3.3 | 2.7 | 2.1 | 5.1 | 3.1 | 2.9 | 1.8 | 2.1 | 1.5 | 1.6 | 1.2 | c | | | |
| 284 | 157 | 327 | 121 | 290 | 121 | 260 | 121 | 260 | 109 | 260 | $n_{2\,Eck}$ | | | |
| 284 | 157 | 327 | 121 | 290 | 121 | 260 | 121 | 260 | 109 | 260 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.63 | 331 | 14.286 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 95 | 175 | 142 | | | | | | | | | $M_2$ | 1.63 | 428 | 14.286 |
| 3.7 | 2.4 | 2.3 | | | | | | | | | c | | | |
| 247 | 137 | 284 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 247 | 137 | 284 | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

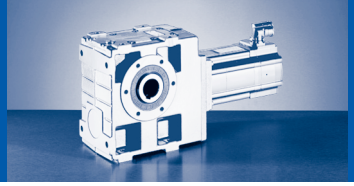
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 14.286 | 528 | 1.63 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 15.869 | 443 | 2.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 51<br>5.6<br>255<br>255 | 62<br>4.8<br>255<br>255 | | | | |
| 15.869 | 572 | 2.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 59<br>5.0<br>255<br>255 | 137<br>4.0<br>95<br>95 | 111<br>3.3<br>189<br>189 |
| 15.869 | 605 | 2.35 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 17.360 | 462 | 2.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 56<br>5.5<br>233<br>233 | 67<br>4.6<br>233<br>233 | | | | |
| 17.360 | 597 | 2.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 64<br>4.9<br>233<br>233 | 150<br>3.9<br>86<br>86 | 122<br>3.3<br>173<br>173 |
| 17.360 | 624 | 2.01 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 20.417 | 488 | 4.17 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 90<br>4.1<br>96<br>96 | 71<br>3.3<br>198<br>198 | 166<br>2.9<br>74<br>73 | 134<br>2.2<br>147<br>147 |
| 22.143 | 494 | 1.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 72<br>5.1<br>183<br>183 | 86<br>4.3<br>183<br>183 | | | | |
| 22.143 | 638 | 1.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 103<br>5.6<br>88<br>88 | 82<br>4.5<br>183<br>183 | 192<br>3.3<br>68<br>68 | 155<br>3.0<br>136<br>135 |
| 22.143 | 673 | 1.39 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | |
| 24.800 | 561 | 3.06 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 110<br>4.0<br>79<br>79 | 88<br>3.1<br>163<br>163 | 202<br>2.7<br>61<br>60 | 165<br>2.1<br>121<br>121 |
| 27.125 | 518 | 1.04 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 71<br>5.9<br>138<br>138 | 88<br>4.9<br>149<br>149 | 106<br>4.1<br>149<br>149 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GSS06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | 117 | 96 | 208 | 182 | 301 | 224 | 394 | 274 | $M_2$ | 1.63 | 528 | 14.286 |
| | | | 4.4 | 3.4 | 2.5 | 2.0 | 1.7 | 1.6 | 1.3 | 1.3 | c | | | |
| | | | 105 | 252 | 105 | 226 | 105 | 226 | 95 | 226 | $n_{2\,Eck}$ | | | |
| | | | 105 | 251 | 105 | 226 | 105 | 226 | 95 | 226 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.35 | 443 | 15.869 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 105 | 189 | 155 | | | | | | | | | $M_2$ | 2.35 | 572 | 15.869 |
| 3.1 | 2.6 | 2.0 | | | | | | | | | c | | | |
| 222 | 123 | 255 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 222 | 123 | 255 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 125 | 105 | 223 | 198 | 323 | 244 | 423 | 299 | $M_2$ | 2.35 | 605 | 15.869 |
| | | | 4.6 | 2.9 | 2.7 | 1.7 | 1.9 | 1.4 | 1.4 | 1.1 | c | | | |
| | | | 95 | 227 | 95 | 203 | 95 | 203 | 85 | 203 | $n_{2\,Eck}$ | | | |
| | | | 95 | 226 | 95 | 203 | 95 | 203 | 85 | 203 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 2.01 | 462 | 17.360 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 114 | 206 | 170 | | | | | | | | | $M_2$ | 2.01 | 597 | 17.360 |
| 3.0 | 2.5 | 1.9 | | | | | | | | | c | | | |
| 203 | 112 | 233 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 203 | 112 | 233 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 137 | 115 | 244 | 217 | 353 | 267 | 463 | 327 | $M_2$ | 2.01 | 624 | 17.360 |
| | | | 4.4 | 2.8 | 2.5 | 1.6 | 1.8 | 1.3 | 1.3 | 1.1 | c | | | |
| | | | 86 | 207 | 86 | 186 | 86 | 186 | 78 | 186 | $n_{2\,Eck}$ | | | |
| | | | 86 | 207 | 86 | 186 | 86 | 186 | 78 | 186 | $n_{2\,th}$ | | | |
| 125 | 227 | 185 | 152 | 125 | 268 | 236 | 388 | | | | $M_2$ | 4.17 | 488 | 20.417 |
| 2.1 | 1.7 | 1.3 | 3.1 | 1.9 | 1.8 | 1.1 | 1.3 | | | | c | | | |
| 173 | 96 | 198 | 74 | 176 | 74 | 158 | 74 | | | | $n_{2\,Eck}$ | | | |
| 173 | 96 | 198 | 73 | 176 | 73 | 158 | 73 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.39 | 494 | 22.143 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |
| 146 | 263 | 217 | | | | | | | | | $M_2$ | 1.39 | 638 | 22.143 |
| 2.8 | 2.3 | 1.8 | | | | | | | | | c | | | |
| 159 | 88 | 183 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 159 | 88 | 183 | | | | | | | | | $n_{2\,th}$ | | | |
| | | | 175 | 146 | 310 | 277 | 450 | 341 | 589 | 417 | $M_2$ | 1.39 | 673 | 22.143 |
| | | | 3.7 | 2.6 | 2.1 | 1.5 | 1.5 | 1.2 | 1.1 | 1.0 | c | | | |
| | | | 68 | 163 | 68 | 146 | 68 | 146 | 61 | 146 | $n_{2\,Eck}$ | | | |
| | | | 68 | 162 | 68 | 146 | 68 | 146 | 61 | 146 | $n_{2\,th}$ | | | |
| 155 | 279 | 229 | 186 | 155 | 328 | 292 | 474 | | | | $M_2$ | 3.06 | 561 | 24.800 |
| 2.0 | 1.6 | 1.2 | 3.0 | 1.8 | 1.7 | 1.1 | 1.2 | | | | c | | | |
| 142 | 79 | 163 | 61 | 145 | 61 | 130 | 61 | | | | $n_{2\,Eck}$ | | | |
| 142 | 79 | 163 | 60 | 145 | 60 | 130 | 60 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | $M_2$ | 1.04 | 518 | 27.125 |
| | | | | | | | | | | | c | | | |
| | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

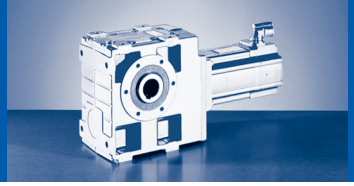
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 27.125 | 669 | 1.04 | $M_2$ | | | | | | | 127 | 101 | 235 | 190 |
| | | | c | | | | | | | 4.8 | 4.3 | 2.8 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | | | | 72 | 149 | 55 | 111 |
| | | | $n_{2\,th}$ | | | | | | | 72 | 149 | 55 | 111 |
| 27.125 | 718 | 1.04 | $M_2$ | | | | | | | | | | |
| | | | c | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | | | | | | | | | |
| | | | $n_{2\,th}$ | | | | | | | | | | |
| 31.738 | 609 | 2.10 | $M_2$ | | | 58 | 80 | 99 | 118 | 141 | 112 | 259 | 211 |
| | | | c | | | 5.5 | 4.1 | 3.3 | 2.8 | 3.7 | 2.9 | 2.3 | 2.0 |
| | | | $n_{2\,Eck}$ | | | 128 | 118 | 128 | 128 | 61 | 128 | 47 | 95 |
| | | | $n_{2\,th}$ | | | 128 | 118 | 128 | 128 | 61 | 128 | 47 | 95 |
| 35.306 | 537 | 0.66 | $M_2$ | | | | 93 | 115 | 138 | | | | |
| | | | c | | | | 5.5 | 4.5 | 3.8 | | | | |
| | | | $n_{2\,Eck}$ | | | | 106 | 115 | 115 | | | | |
| | | | $n_{2\,th}$ | | | | 106 | 115 | 115 | | | | |
| 35.306 | 693 | 0.66 | $M_2$ | | | | | | | 166 | 131 | 306 | 248 |
| | | | c | | | | | | | 4.1 | 4.0 | 2.2 | 2.5 |
| | | | $n_{2\,Eck}$ | | | | | | | 55 | 115 | 43 | 85 |
| | | | $n_{2\,th}$ | | | | | | | 55 | 115 | 42 | 85 |
| 39.200 | 637 | 1.64 | $M_2$ | | | 71 | 98 | 121 | 144 | 173 | 137 | 317 | 258 |
| | | | c | | | 5.1 | 3.8 | 3.1 | 2.6 | 3.2 | 2.7 | 2.0 | 1.8 |
| | | | $n_{2\,Eck}$ | | | 103 | 96 | 103 | 103 | 50 | 103 | 38 | 77 |
| | | | $n_{2\,th}$ | | | 103 | 96 | 103 | 103 | 50 | 103 | 38 | 77 |
| 43.917 | 554 | 0.48 | $M_2$ | | | | 116 | 144 | 172 | | | | |
| | | | c | | | | 4.7 | 3.8 | 3.2 | | | | |
| | | | $n_{2\,Eck}$ | | | | 85 | 92 | 92 | | | | |
| | | | $n_{2\,th}$ | | | | 85 | 92 | 92 | | | | |
| 43.917 | 715 | 0.48 | $M_2$ | | | | | | | 207 | 163 | 380 | 308 |
| | | | c | | | | | | | 3.4 | 3.6 | 1.9 | 2.1 |
| | | | $n_{2\,Eck}$ | | | | | | | 44 | 92 | 34 | 68 |
| | | | $n_{2\,th}$ | | | | | | | 44 | 92 | 34 | 68 |
| 50.000 | 693 | 1.16 | $M_2$ | | | 91 | 125 | 154 | 183 | 221 | 175 | 403 | 328 |
| | | | c | | | 4.8 | 3.5 | 2.9 | 2.4 | 2.7 | 2.5 | 1.7 | 1.7 |
| | | | $n_{2\,Eck}$ | | | 81 | 75 | 81 | 81 | 39 | 81 | 30 | 60 |
| | | | $n_{2\,th}$ | | | 81 | 75 | 81 | 81 | 39 | 81 | 30 | 60 |
| 54.250 | 720 | 0.96 | $M_2$ | | | 100 | 136 | 168 | 200 | 241 | 191 | 440 | 359 |
| | | | c | | | 4.7 | 3.5 | 2.9 | 2.4 | 2.7 | 2.5 | 1.6 | 1.6 |
| | | | $n_{2\,Eck}$ | | | 75 | 69 | 75 | 75 | 36 | 75 | 28 | 55 |
| | | | $n_{2\,th}$ | | | 75 | 69 | 75 | 75 | 36 | 75 | 28 | 55 |
| 61.250 | 720 | 0.89 | $M_2$ | | | 112 | 153 | 188 | 224 | 270 | 214 | 492 | 402 |
| | | | c | | | 4.5 | 3.3 | 2.7 | 2.3 | 2.4 | 2.4 | 1.5 | 1.5 |
| | | | $n_{2\,Eck}$ | | | 66 | 61 | 66 | 66 | 32 | 66 | 25 | 49 |
| | | | $n_{2\,th}$ | | | 66 | 61 | 66 | 66 | 32 | 66 | 24 | 49 |
| 70.611 | 720 | 0.61 | $M_2$ | | | 130 | 177 | 218 | 260 | 314 | 248 | 569 | 465 |
| | | | c | | | 4.2 | 3.1 | 2.5 | 2.1 | 2.2 | 2.2 | 1.3 | 1.4 |
| | | | $n_{2\,Eck}$ | | | 57 | 53 | 57 | 57 | 28 | 57 | 21 | 43 |
| | | | $n_{2\,th}$ | | | 57 | 53 | 57 | 57 | 28 | 57 | 21 | 42 |
| 79.722 | 720 | 0.57 | $M_2$ | | 93 | 146 | 199 | 245 | 291 | 351 | 278 | 635 | 520 |
| | | | c | | 5.8 | 3.8 | 2.8 | 2.3 | 1.9 | 2.0 | 2.0 | 1.1 | 1.2 |
| | | | $n_{2\,Eck}$ | | 51 | 51 | 47 | 51 | 51 | 25 | 51 | 19 | 38 |
| | | | $n_{2\,th}$ | | 51 | 51 | 47 | 51 | 51 | 24 | 51 | 19 | 38 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GSS06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| 179<br>2.7<br>130<br>130 | 322<br>2.0<br>72<br>72 | 265<br>1.7<br>149<br>149 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.04 | 669 | 27.125 |
| | | | 215<br>3.3<br>55<br>55 | 179<br>2.5<br>133<br>132 | 380<br>1.9<br>55<br>55 | 339<br>1.4<br>119<br>119 | 550<br>1.3<br>55<br>55 | 417<br>1.2<br>119<br>119 | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.04 | 718 | 27.125 |
| 198<br>1.8<br>111<br>111 | 355<br>1.5<br>61<br>61 | 293<br>1.1<br>128<br>128 | 237<br>2.5<br>47<br>47 | 199<br>1.7<br>113<br>113 | 418<br>1.5<br>47<br>47 | | 604<br>1.0<br>47<br>47 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.10 | 609 | 31.738 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.66 | 537 | 35.306 |
| 233<br>2.5<br>100<br>100 | 419<br>1.7<br>55<br>55 | 345<br>1.6<br>115<br>115 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.66 | 693 | 35.306 |
| 242<br>1.7<br>90<br>90 | 435<br>1.3<br>50<br>50 | 358<br>1.1<br>103<br>103 | 291<br>2.2<br>38<br>38 | 243<br>1.6<br>92<br>92 | 512<br>1.2<br>38<br>38 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.64 | 637 | 39.200 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.48 | 554 | 43.917 |
| 290<br>2.1<br>80<br>80 | 521<br>1.4<br>44<br>44 | 428<br>1.4<br>92<br>92 | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.48 | 715 | 43.917 |
| 309<br>1.6<br>71<br>71 | 553<br>1.1<br>39<br>39 | | 370<br>1.9<br>30<br>30 | 309<br>1.5<br>72<br>72 | 650<br>1.1<br>30<br>30 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.16 | 693 | 50.000 |
| 337<br>1.6<br>65<br>65 | 604<br>1.1<br>36<br>36 | | 404<br>1.8<br>28<br>28 | 338<br>1.5<br>66<br>66 | 710<br>1.0<br>28<br>28 | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.96 | 720 | 54.250 |
| 378<br>1.4<br>58<br>58 | | | 452<br>1.6<br>25<br>24 | 378<br>1.4<br>59<br>59 | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.89 | 720 | 61.250 |
| 437<br>1.3<br>50<br>50 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.61 | 720 | 70.611 |
| 490<br>1.2<br>44<br>44 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.57 | 720 | 79.722 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

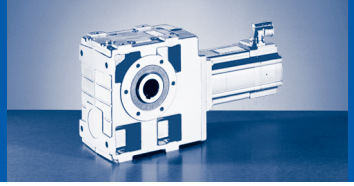
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-2S | | | | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 |
| | | | $I_{M\,230}$ | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 |
| | | | $I_{M\,400}$ | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | |
| | | | $P_N$ | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 |
| | | | $J_M$ | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 |
| 87.833 | 684 | 0.44 | $M_2$ | | 103 | | | | | | | | |
| | | | c | | 5.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 46 | | | | | | | | |
| | | | $n_{2\,th}$ | | 46 | | | | | | | | |
| 87.833 | 720 | 0.44 | $M_2$ | | | 162 | 220 | 272 | 323 | 389 | 308 | 702 | 577 |
| | | | c | | | 3.7 | 2.7 | 2.2 | 1.9 | 1.8 | 2.0 | 1.0 | 1.2 |
| | | | $n_{2\,Eck}$ | | | 46 | 43 | 46 | 46 | 22 | 46 | 17 | 34 |
| | | | $n_{2\,th}$ | | | 46 | 43 | 46 | 46 | 22 | 46 | 17 | 34 |
| 99.167 | 720 | 0.42 | $M_2$ | | 116 | 181 | 247 | 304 | 362 | 434 | 345 | | 645 |
| | | | c | | 5.1 | 3.3 | 2.5 | 2.0 | 1.7 | 1.7 | 1.8 | | 1.1 |
| | | | $n_{2\,Eck}$ | | 41 | 41 | 38 | 41 | 41 | 20 | 41 | | 30 |
| | | | $n_{2\,th}$ | | 41 | 41 | 38 | 41 | 41 | 20 | 41 | | 30 |
| 113.667 | 699 | 0.28 | $M_2$ | 105 | 134 | | | | | | | | |
| | | | c | 5.9 | 4.8 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 36 | 36 | | | | | | | | |
| | | | $n_{2\,th}$ | 36 | 36 | | | | | | | | |
| 113.667 | 720 | 0.28 | $M_2$ | | | 209 | 285 | 351 | 417 | | | | |
| | | | c | | | 3.1 | 2.3 | 1.9 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | | | 36 | 33 | 36 | 36 | | | | |
| | | | $n_{2\,th}$ | | | 36 | 33 | 36 | 36 | | | | |
| 128.333 | 720 | 0.26 | $M_2$ | 118 | 150 | 234 | 319 | 393 | 466 | | | | |
| | | | c | 5.4 | 4.3 | 2.8 | 2.1 | 1.7 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 32 | 32 | 32 | 29 | 32 | 32 | | | | |
| | | | $n_{2\,th}$ | 32 | 32 | 32 | 29 | 32 | 32 | | | | |
| 137.950 | 700 | 0.20 | $M_2$ | 128 | 162 | | | | | | | | |
| | | | c | 5.3 | 4.2 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 29 | 29 | | | | | | | | |
| | | | $n_{2\,th}$ | 29 | 29 | | | | | | | | |
| 137.950 | 720 | 0.20 | $M_2$ | | | 253 | 345 | 424 | 504 | | | | |
| | | | c | | | 2.7 | 2.0 | 1.7 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | | | 29 | 27 | 29 | 29 | | | | |
| | | | $n_{2\,th}$ | | | 29 | 27 | 29 | 29 | | | | |
| 155.750 | 720 | 0.19 | $M_2$ | 144 | 182 | 283 | 385 | 474 | 563 | | | | |
| | | | c | 4.8 | 3.8 | 2.5 | 1.8 | 1.5 | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 26 | 26 | 26 | 24 | 26 | 26 | | | | |
| | | | $n_{2\,th}$ | 26 | 26 | 26 | 24 | 26 | 26 | | | | |
| 174.375 | 681 | 0.13 | $M_2$ | 162 | 205 | | | | | | | | |
| | | | c | 4.2 | 3.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 23 | 23 | | | | | | | | |
| | | | $n_{2\,th}$ | 23 | 23 | | | | | | | | |
| 196.875 | 720 | 0.12 | $M_2$ | 182 | 229 | | | | | | | | |
| | | | c | 3.8 | 3.0 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 21 | 21 | | | | | | | | |
| | | | $n_{2\,th}$ | 21 | 21 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| 12HC35 | 12LC20 | 12LC41 | 14DC15 | 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | GSS06-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 13.50 | 11.00 | 9.20 | 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3525 | 1950 | 4050 | 1500 | 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | $n_1$ | | | |
| | 11.8 | | | | | | | | | | $I_{M\,230}$ | | | |
| 5.7 | 5.9 | 10.2 | 4.5 | 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | $I_{M\,400}$ | | | |
| 2.80 | 2.80 | 4.70 | 1.45 | 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | $P_N$ | | | |
| 7.42 | 10.72 | 10.72 | 8.22 | 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | $J_M$ | | | |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.44 | 684 | 87.833 |
| 543<br>1.2<br>40<br>40 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.44 | 720 | 87.833 |
| 607<br>1.1<br>36<br>36 | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.42 | 720 | 99.167 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.28 | 699 | 113.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.28 | 720 | 113.667 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.26 | 720 | 128.333 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 700 | 137.950 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.20 | 720 | 137.950 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.19 | 720 | 155.750 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.13 | 681 | 174.375 |
| | | | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.12 | 720 | 196.875 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

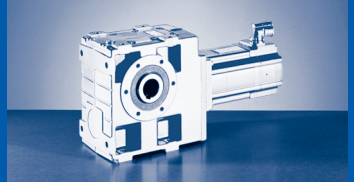
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 |
| 126.531 | 720 | 0.31 | $M_2$ | | 116 | 146 | 226 | 306 | 376 |
| | | | c | | 3.2 | 2.5 | 1.7 | 1.2 | 1.0 |
| | | | $n_{2\,Eck}$ | | 32 | 32 | 32 | 30 | 32 |
| | | | $n_{2\,th}$ | | 32 | 32 | 32 | 30 | 32 |
| 142.857 | 720 | 0.30 | $M_2$ | | 129 | 162 | 252 | 341 | 419 |
| | | | c | | 3.2 | 2.5 | 1.7 | 1.2 | 1.0 |
| | | | $n_{2\,Eck}$ | | 28 | 28 | 28 | 26 | 28 |
| | | | $n_{2\,th}$ | | 28 | 28 | 28 | 26 | 28 |
| 155.000 | 720 | 0.27 | $M_2$ | 68 | 141 | 178 | 275 | 372 | |
| | | | c | 5.6 | 2.8 | 2.3 | 1.5 | 1.1 | |
| | | | $n_{2\,Eck}$ | 26 | 26 | 26 | 26 | 24 | |
| | | | $n_{2\,th}$ | 26 | 26 | 26 | 26 | 24 | |
| 175.000 | 720 | 0.26 | $M_2$ | 76 | 157 | 197 | 306 | 414 | |
| | | | c | 5.6 | 2.8 | 2.3 | 1.5 | 1.1 | |
| | | | $n_{2\,Eck}$ | 23 | 23 | 23 | 23 | 21 | |
| | | | $n_{2\,th}$ | 23 | 23 | 23 | 23 | 21 | |
| 194.857 | 720 | 0.14 | $M_2$ | 85 | 176 | 222 | | | |
| | | | c | 4.7 | 2.4 | 1.9 | | | |
| | | | $n_{2\,Eck}$ | 21 | 21 | 21 | | | |
| | | | $n_{2\,th}$ | 21 | 21 | 21 | | | |
| 220.000 | 720 | 0.14 | $M_2$ | 95 | 196 | 246 | | | |
| | | | c | 4.7 | 2.4 | 1.9 | | | |
| | | | $n_{2\,Eck}$ | 18 | 18 | 18 | | | |
| | | | $n_{2\,th}$ | 18 | 18 | 18 | | | |
| 238.700 | 720 | 0.13 | $M_2$ | 104 | 214 | 269 | | | |
| | | | c | 4.2 | 2.1 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 17 | 17 | 17 | | | |
| | | | $n_{2\,th}$ | 17 | 17 | 17 | | | |
| 269.500 | 720 | 0.12 | $M_2$ | 116 | 238 | 299 | | | |
| | | | c | 4.2 | 2.1 | 1.7 | | | |
| | | | $n_{2\,Eck}$ | 15 | 15 | 15 | | | |
| | | | $n_{2\,th}$ | 15 | 15 | 15 | | | |
| 310.689 | 720 | 0.11 | $M_2$ | 136 | 277 | 348 | | | |
| | | | c | 2.8 | 1.4 | 1.1 | | | |
| | | | $n_{2\,Eck}$ | 13 | 13 | 13 | | | |
| | | | $n_{2\,th}$ | 13 | 13 | 13 | | | |
| 350.778 | 720 | 0.11 | $M_2$ | 151 | 307 | 385 | | | |
| | | | c | 2.8 | 1.4 | 1.1 | | | |
| | | | $n_{2\,Eck}$ | 12 | 12 | 12 | | | |
| | | | $n_{2\,th}$ | 12 | 12 | 12 | | | |
| 386.467 | 720 | 0.10 | $M_2$ | 168 | 341 | | | | |
| | | | c | 2.4 | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 11 | 11 | | | | |
| | | | $n_{2\,th}$ | 10 | 10 | | | | |
| 436.333 | 720 | 0.10 | $M_2$ | 186 | 379 | | | | |
| | | | c | 2.4 | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 9 | 9 | | | | |
| | | | $n_{2\,th}$ | 9 | 9 | | | | |
| 497.722 | 720 | 0.07 | $M_2$ | 214 | 434 | | | | |
| | | | c | 2.0 | 1.0 | | | | |
| | | | $n_{2\,Eck}$ | 8 | 8 | | | | |
| | | | $n_{2\,th}$ | 8 | 8 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| GSS06-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 |
| 561.944 | 720 | 0.07 | $M_2$ | 238 | 482 | | | | |
| | | | c | 2.0 | 1.0 | | | | |
| | | | $n_{2\,Eck}$ | 7 | 7 | | | | |
| | | | $n_{2\,th}$ | 7 | 7 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

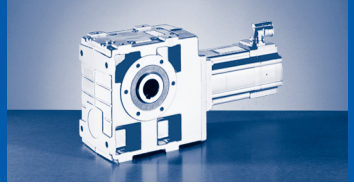
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 5.862 | 539 | 21.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 8.125 | 685 | 12.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 9.086 | 628 | 17.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 10.000 | 468 | 9.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 89<br>5.0<br>150<br>150 | | | 122<br>3.7<br>195<br>195 | 99<br>3.8<br>405<br>405 | |
| 10.000 | 734 | 9.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 10.000 | 797 | 9.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.200 | 496 | 7.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 100<br>4.8<br>134<br>134 | 79<br>6.0<br>268<br>268 | 74<br>5.9<br>315<br>315 | 137<br>3.5<br>174<br>174 | 111<br>3.7<br>362<br>362 | |
| 11.200 | 771 | 7.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 11.200 | 866 | 7.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 12.594 | 799 | 10.71 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 14.286 | 533 | 4.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 129<br>4.0<br>105<br>105 | 101<br>5.0<br>210<br>210 | 95<br>5.4<br>247<br>247 | 175<br>3.0<br>137<br>137 | 142<br>3.4<br>284<br>284 | |
| 14.286 | 737 | 4.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 15.500 | 704 | 7.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 134<br>5.0<br>97<br>97 | 107<br>5.0<br>194<br>194 | 101<br>4.7<br>227<br>227 | 183<br>3.7<br>126<br>126 | 151<br>3.0<br>261<br>261 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GSS07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | 73 | 120 | 91 | 159 | 111 | 142 | 111 | 214 | 155 | 274 | 171 | $M_2$ | | | |
| | | 3.8 | 4.3 | 3.1 | 3.3 | 2.5 | 3.7 | 2.9 | 2.5 | 2.1 | 2.0 | 1.9 | c | 21.36 | 539 | 5.862 |
| | | 550 | 256 | 550 | 230 | 550 | 243 | 512 | 243 | 512 | 230 | 512 | $n_{2\,Eck}$ | | | |
| | | 550 | 256 | 550 | 230 | 550 | 243 | 377 | 243 | 377 | 230 | 377 | $n_{2\,th}$ | | | |
| 53 | 115 | 102 | 168 | 126 | 221 | 155 | 198 | 155 | 298 | 216 | 381 | 238 | $M_2$ | | | |
| 5.9 | 5.7 | 3.4 | 4.0 | 2.8 | 3.0 | 2.3 | 3.4 | 2.6 | 2.3 | 1.9 | 1.8 | 1.7 | c | 12.75 | 685 | 8.125 |
| 443 | 185 | 397 | 185 | 397 | 166 | 397 | 175 | 369 | 175 | 369 | 166 | 369 | $n_{2\,Eck}$ | | | |
| 442 | 185 | 397 | 185 | 397 | 166 | 397 | 175 | 272 | 175 | 272 | 166 | 272 | $n_{2\,th}$ | | | |
| 58 | 126 | 112 | 184 | 139 | 242 | 170 | 217 | 170 | 325 | 236 | 417 | 261 | $M_2$ | | | |
| 5.7 | 4.8 | 3.3 | 3.3 | 2.7 | 2.6 | 2.2 | 2.8 | 2.4 | 1.9 | 1.7 | 1.5 | 1.6 | c | 17.44 | 628 | 9.086 |
| 396 | 165 | 355 | 165 | 355 | 149 | 355 | 157 | 330 | 157 | 330 | 149 | 330 | $n_{2\,Eck}$ | | | |
| 395 | 165 | 355 | 165 | 355 | 149 | 355 | 157 | 243 | 157 | 243 | 149 | 243 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 9.14 | 468 | 10.000 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 66 | 142 | 126 | 208 | 156 | 274 | 192 | | | | | | | $M_2$ | | | |
| 5.5 | 4.9 | 3.3 | 3.4 | 2.6 | 2.6 | 2.2 | | | | | | | c | 9.14 | 734 | 10.000 |
| 360 | 150 | 323 | 150 | 323 | 135 | 323 | | | | | | | $n_{2\,Eck}$ | | | |
| 359 | 150 | 323 | 150 | 323 | 135 | 323 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 245 | 191 | 367 | 266 | 470 | 294 | $M_2$ | | | |
| | | | | | | | 3.2 | 2.5 | 2.2 | 1.8 | 1.7 | 1.6 | c | 9.14 | 797 | 10.000 |
| | | | | | | | 143 | 300 | 143 | 300 | 135 | 300 | $n_{2\,Eck}$ | | | |
| | | | | | | | 143 | 221 | 143 | 221 | 135 | 221 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 7.50 | 496 | 11.200 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 74 | 160 | 142 | 234 | 175 | 307 | 215 | | | | | | | $M_2$ | | | |
| 5.4 | 4.6 | 3.2 | 3.2 | 2.6 | 2.5 | 2.1 | | | | | | | c | 7.50 | 771 | 11.200 |
| 321 | 134 | 288 | 134 | 288 | 121 | 288 | | | | | | | $n_{2\,Eck}$ | | | |
| 321 | 134 | 288 | 134 | 288 | 121 | 288 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | 275 | 215 | 411 | 298 | 527 | 330 | $M_2$ | | | |
| | | | | | | | 3.1 | 2.4 | 2.1 | 1.7 | 1.6 | 1.6 | c | 7.50 | 866 | 11.200 |
| | | | | | | | 127 | 268 | 127 | 268 | 121 | 268 | $n_{2\,Eck}$ | | | |
| | | | | | | | 127 | 197 | 127 | 197 | 121 | 197 | $n_{2\,th}$ | | | |
| 82 | 175 | 156 | 256 | 193 | 336 | 237 | 302 | 237 | 451 | 329 | 578 | 363 | $M_2$ | | | |
| 4.9 | 4.4 | 2.8 | 3.1 | 2.3 | 2.3 | 1.9 | 2.6 | 2.1 | 1.8 | 1.5 | 1.4 | 1.4 | c | 10.71 | 799 | 12.594 |
| 286 | 119 | 256 | 119 | 256 | 107 | 256 | 113 | 238 | 113 | 238 | 107 | 238 | $n_{2\,Eck}$ | | | |
| 285 | 119 | 256 | 119 | 256 | 107 | 256 | 113 | 176 | 113 | 176 | 107 | 176 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 4.84 | 533 | 14.286 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 95 | 207 | 181 | 301 | 224 | 395 | 275 | | | | | | | $M_2$ | | | |
| 5.0 | 3.5 | 2.9 | 2.4 | 2.4 | 1.9 | 2.0 | | | | | | | c | 4.84 | 737 | 14.286 |
| 252 | 105 | 226 | 105 | 226 | 95 | 226 | | | | | | | $n_{2\,Eck}$ | | | |
| 251 | 105 | 226 | 105 | 226 | 95 | 226 | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | | | | | c | 7.79 | 704 | 15.500 |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

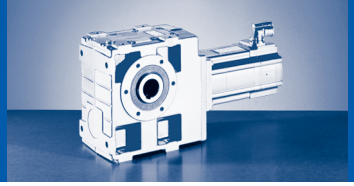
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 15.500 | 931 | 7.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 17.360 | 746 | 6.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 150<br>4.8<br>86<br>86 | 120<br>4.8<br>173<br>173 | 113<br>4.5<br>203<br>203 | 206<br>3.5<br>112<br>112 | 169<br>2.9<br>233<br>233 | |
| 17.360 | 1012 | 6.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 20.517 | 764 | 13.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 152<br>4.8<br>73<br>73 |
| 22.143 | 797 | 4.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 192<br>4.0<br>68<br>68 | 154<br>4.5<br>136<br>135 | 145<br>4.2<br>159<br>159 | 264<br>3.0<br>88<br>88 | 216<br>2.6<br>183<br>183 | |
| 22.143 | 1103 | 4.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | |
| 25.188 | 913 | 9.59 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 189<br>4.6<br>60<br>60 |
| 27.125 | 837 | 3.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | 236<br>3.5<br>55<br>55 | 189<br>4.3<br>111<br>111 | 178<br>4.0<br>130<br>130 | 324<br>2.6<br>72<br>72 | 265<br>2.5<br>149<br>149 | |
| 27.125 | 1250 | 3.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 212<br>5.6<br>55<br>55 |
| 31.000 | 1065 | 7.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 137<br>5.7<br>63<br>63 | 109<br>4.7<br>131<br>131 | 254<br>4.1<br>48<br>48 | 206<br>3.0<br>97<br>97 | 194<br>2.9<br>114<br>114 | 351<br>2.3<br>63<br>63 | 288<br>1.8<br>131<br>131 | 233<br>4.4<br>48<br>48 |
| 35.306 | 676 | 1.96 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | 115<br>5.7<br>115<br>115 | 137<br>4.8<br>115<br>115 | | | | | | | | |
| 35.306 | 870 | 1.96 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | 166<br>5.0<br>55<br>55 | 130<br>6.0<br>115<br>115 | 309<br>2.8<br>43<br>42 | 248<br>3.5<br>85<br>85 | 232<br>3.7<br>100<br>100 | 422<br>2.1<br>55<br>55 | 345<br>2.3<br>115<br>115 | |
| 35.306 | 1250 | 1.96 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | | | | 279<br>4.3<br>43<br>42 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GSS07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 101 | 216 | 193 | 315 | 238 | 414 | 292 | 372 | 292 | 555 | 405 | 711 | 447 | $M_2$ | 7.79 | 931 | 15.500 |
| 4.4 | 4.2 | 2.5 | 2.9 | 2.1 | 2.2 | 1.7 | 2.5 | 1.9 | 1.7 | 1.4 | 1.3 | 1.3 | c | | | |
| 232 | 97 | 208 | 97 | 208 | 87 | 208 | 92 | 194 | 92 | 194 | 87 | 194 | $n_{2\,Eck}$ | | | |
| 232 | 97 | 208 | 97 | 208 | 87 | 208 | 92 | 143 | 92 | 143 | 87 | 143 | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 6.42 | 746 | 17.360 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 114 | 242 | 216 | 353 | 267 | 463 | 328 | 416 | 327 | 622 | 454 | 796 | 501 | $M_2$ | 6.42 | 1012 | 17.360 |
| 4.2 | 4.0 | 2.4 | 2.8 | 2.0 | 2.2 | 1.6 | 2.4 | 1.8 | 1.6 | 1.3 | 1.3 | 1.2 | c | | | |
| 207 | 86 | 186 | 86 | 186 | 78 | 186 | 82 | 173 | 82 | 173 | 78 | 173 | $n_{2\,Eck}$ | | | |
| 207 | 86 | 186 | 86 | 186 | 78 | 186 | 82 | 127 | 82 | 127 | 78 | 127 | $n_{2\,th}$ | | | |
| 126 | 272 | 240 | 394 | 296 | 517 | 362 | 465 | 362 | 693 | | | | $M_2$ | 13.58 | 764 | 20.517 |
| 3.3 | 2.8 | 1.9 | 1.9 | 1.5 | 1.5 | 1.3 | 1.6 | 1.4 | 1.1 | | | | c | | | |
| 176 | 73 | 157 | 73 | 157 | 66 | 157 | 70 | 146 | 70 | | | | $n_{2\,Eck}$ | | | |
| 175 | 73 | 157 | 73 | 157 | 66 | 157 | 69 | 108 | 69 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 4.18 | 797 | 22.143 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 145 | 309 | 276 | 450 | 341 | 591 | 418 | | | | | | | $M_2$ | 4.18 | 1103 | 22.143 |
| 3.9 | 3.5 | 2.3 | 2.4 | 1.8 | 1.9 | 1.5 | | | | | | | c | | | |
| 163 | 68 | 146 | 68 | 146 | 61 | 146 | | | | | | | $n_{2\,Eck}$ | | | |
| 162 | 68 | 146 | 68 | 146 | 61 | 146 | | | | | | | $n_{2\,th}$ | | | |
| 157 | 336 | 298 | 488 | 367 | 639 | 450 | 574 | 449 | 856 | | | | $M_2$ | 9.59 | 913 | 25.188 |
| 3.0 | 2.7 | 1.7 | 1.9 | 1.4 | 1.4 | 1.1 | 1.6 | 1.2 | 1.1 | | | | c | | | |
| 143 | 60 | 128 | 60 | 128 | 54 | 128 | 57 | 119 | 57 | | | | $n_{2\,Eck}$ | | | |
| 143 | 60 | 128 | 60 | 128 | 54 | 128 | 57 | 88 | 57 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 3.13 | 837 | 27.125 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 178 | 379 | 339 | 551 | 418 | 723 | 512 | | | | | | | $M_2$ | 3.13 | 1250 | 27.125 |
| 3.7 | 3.2 | 2.2 | 2.2 | 1.8 | 1.7 | 1.4 | | | | | | | c | | | |
| 133 | 55 | 119 | 55 | 119 | 50 | 119 | | | | | | | $n_{2\,Eck}$ | | | |
| 132 | 55 | 119 | 55 | 119 | 50 | 119 | | | | | | | $n_{2\,th}$ | | | |
| 194 | 414 | 367 | 600 | 453 | 786 | 555 | 706 | 554 | 1052 | | | | $M_2$ | 7.05 | 1065 | 31.000 |
| 2.7 | 2.5 | 1.5 | 1.8 | 1.3 | 1.4 | 1.0 | 1.5 | 1.2 | 1.0 | | | | c | | | |
| 116 | 48 | 104 | 48 | 104 | 44 | 104 | 46 | 97 | 46 | | | | $n_{2\,Eck}$ | | | |
| 116 | 48 | 104 | 48 | 104 | 44 | 104 | 46 | 71 | 46 | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.96 | 676 | 35.306 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.96 | 870 | 35.306 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 233 | 495 | 441 | 718 | 544 | 941 | 667 | | | | | | | $M_2$ | 1.96 | 1250 | 35.306 |
| 3.4 | 2.5 | 2.0 | 1.7 | 1.6 | 1.3 | 1.3 | | | | | | | c | | | |
| 102 | 43 | 91 | 43 | 91 | 38 | 91 | | | | | | | $n_{2\,Eck}$ | | | |
| 102 | 42 | 91 | 42 | 91 | 38 | 91 | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

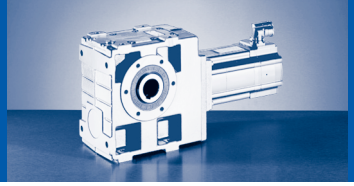
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 39.200 | 1175 | 5.37 | $M_2$ | | | | | 172 | 137 | 319 | 260 | 244 | 440 | 362 | 292 |
| | | | c | | | | | 5.3 | 4.2 | 3.6 | 2.8 | 2.6 | 2.2 | 1.6 | 3.9 |
| | | | $n_{2\,Eck}$ | | | | | 50 | 103 | 38 | 77 | 90 | 50 | 103 | 38 |
| | | | $n_{2\,th}$ | | | | | 50 | 103 | 38 | 77 | 90 | 50 | 103 | 38 |
| 43.271 | 706 | 1.43 | $M_2$ | | 114 | 142 | 169 | | | | | | | | |
| | | | c | | 5.9 | 4.8 | 4.1 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 87 | 94 | 94 | | | | | | | | |
| | | | $n_{2\,th}$ | | 87 | 94 | 94 | | | | | | | | |
| 43.271 | 908 | 1.43 | $M_2$ | | | | | 205 | 159 | 378 | 304 | 285 | 518 | 423 | |
| | | | c | | | | | 4.3 | 5.5 | 2.4 | 3.0 | 3.2 | 1.8 | 2.2 | |
| | | | $n_{2\,Eck}$ | | | | | 45 | 94 | 35 | 69 | 82 | 45 | 94 | |
| | | | $n_{2\,th}$ | | | | | 45 | 94 | 35 | 69 | 81 | 45 | 94 | |
| 43.271 | 1250 | 1.43 | $M_2$ | | | | | | | | | | | | 343 |
| | | | c | | | | | | | | | | | | 3.5 |
| | | | $n_{2\,Eck}$ | | | | | | | | | | | | 35 |
| | | | $n_{2\,th}$ | | | | | | | | | | | | 35 |
| 50.000 | 1250 | 3.53 | $M_2$ | | 124 | 154 | 184 | 220 | 176 | 407 | 331 | 311 | 560 | 462 | 374 |
| | | | c | | 5.4 | 4.4 | 3.7 | 4.9 | 3.9 | 3.0 | 2.6 | 2.4 | 2.0 | 1.5 | 3.3 |
| | | | $n_{2\,Eck}$ | | 75 | 81 | 81 | 39 | 81 | 30 | 60 | 71 | 39 | 81 | 30 |
| | | | $n_{2\,th}$ | | 75 | 81 | 81 | 39 | 81 | 30 | 60 | 71 | 39 | 81 | 30 |
| 54.250 | 1250 | 2.89 | $M_2$ | | | | | 241 | 192 | 446 | 362 | 341 | 613 | 505 | 409 |
| | | | c | | | | | 4.8 | 3.9 | 2.8 | 2.6 | 2.4 | 1.9 | 1.5 | 3.0 |
| | | | $n_{2\,Eck}$ | | | | | 36 | 75 | 28 | 55 | 65 | 36 | 75 | 28 |
| | | | $n_{2\,th}$ | | | | | 36 | 75 | 28 | 55 | 65 | 36 | 75 | 28 |
| 61.250 | 1250 | 2.70 | $M_2$ | | | | | 271 | 215 | 500 | 405 | 381 | 686 | 565 | 459 |
| | | | c | | | | | 4.3 | 3.7 | 2.5 | 2.5 | 2.3 | 1.8 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | | 32 | 66 | 25 | 49 | 58 | 32 | 66 | 25 |
| | | | $n_{2\,th}$ | | | | | 32 | 66 | 24 | 49 | 58 | 32 | 66 | 24 |
| 70.611 | 1250 | 1.81 | $M_2$ | | 177 | 220 | 262 | 316 | 250 | 579 | 471 | 443 | 796 | 656 | 531 |
| | | | c | | 5.0 | 4.1 | 3.5 | 3.8 | 3.6 | 2.1 | 2.4 | 2.3 | 1.6 | 1.4 | 2.3 |
| | | | $n_{2\,Eck}$ | | 53 | 57 | 57 | 28 | 57 | 21 | 43 | 50 | 28 | 57 | 21 |
| | | | $n_{2\,th}$ | | 53 | 57 | 57 | 28 | 57 | 21 | 42 | 50 | 28 | 57 | 21 |
| 79.722 | 1250 | 1.70 | $M_2$ | | 199 | 246 | 293 | 354 | 280 | 649 | 527 | 496 | 891 | 734 | 596 |
| | | | c | | 4.8 | 3.9 | 3.3 | 3.4 | 3.4 | 1.9 | 2.2 | 2.2 | 1.4 | 1.3 | 2.1 |
| | | | $n_{2\,Eck}$ | | 47 | 51 | 51 | 25 | 51 | 19 | 38 | 44 | 25 | 51 | 19 |
| | | | $n_{2\,th}$ | | 47 | 51 | 51 | 24 | 51 | 19 | 38 | 44 | 24 | 51 | 19 |
| 86.542 | 1250 | 1.34 | $M_2$ | | 217 | 269 | 321 | 387 | 306 | 707 | 577 | 543 | 972 | 803 | 649 |
| | | | c | | 4.8 | 3.9 | 3.3 | 3.2 | 3.5 | 1.8 | 2.1 | 2.1 | 1.3 | 1.4 | 1.9 |
| | | | $n_{2\,Eck}$ | | 43 | 47 | 47 | 23 | 47 | 17 | 35 | 41 | 23 | 47 | 17 |
| | | | $n_{2\,th}$ | | 43 | 47 | 47 | 23 | 47 | 17 | 35 | 41 | 23 | 47 | 17 |
| 97.708 | 1250 | 1.26 | $M_2$ | | 244 | 302 | 360 | 435 | 343 | 791 | 646 | 608 | 1089 | 898 | 727 |
| | | | c | | 4.5 | 3.6 | 3.1 | 2.8 | 3.2 | 1.6 | 1.9 | 1.9 | 1.2 | 1.3 | 1.7 |
| | | | $n_{2\,Eck}$ | | 38 | 42 | 42 | 20 | 42 | 15 | 31 | 36 | 20 | 42 | 15 |
| | | | $n_{2\,th}$ | | 38 | 41 | 41 | 20 | 41 | 15 | 31 | 36 | 20 | 41 | 15 |
| 113.667 | 1250 | 0.83 | $M_2$ | 208 | 286 | 354 | 422 | 508 | 402 | 924 | 756 | 712 | | 1051 | |
| | | | c | 5.6 | 4.1 | 3.4 | 2.9 | 2.4 | 3.0 | 1.4 | 1.6 | 1.7 | | 1.2 | |
| | | | $n_{2\,Eck}$ | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 26 | 31 | | 36 | |
| | | | $n_{2\,th}$ | 36 | 33 | 36 | 36 | 17 | 36 | 13 | 26 | 31 | | 36 | |
| 128.333 | 1250 | 0.79 | $M_2$ | 234 | 321 | 397 | 472 | 569 | 451 | 1030 | 847 | 797 | | 1176 | |
| | | | c | 5.1 | 3.8 | 3.1 | 2.6 | 2.2 | 2.7 | 1.2 | 1.5 | 1.6 | | 1.1 | |
| | | | $n_{2\,Eck}$ | 32 | 29 | 32 | 32 | 15 | 32 | 12 | 23 | 28 | | 32 | |
| | | | $n_{2\,th}$ | 32 | 29 | 32 | 32 | 15 | 32 | 12 | 23 | 27 | | 32 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GSS07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| 245 | 518 | 462 | 751 | 569 | 984 | | 884 | 695 | | | | | $M_2$ | 5.37 | 1175 | 39.200 |
| 2.4 | 2.2 | 1.4 | 1.6 | 1.1 | 1.2 | | 1.3 | 1.1 | | | | | c | | | |
| 92 | 38 | 82 | 38 | 82 | 34 | | 36 | 77 | | | | | $n_{2\,Eck}$ | | | |
| 92 | 38 | 82 | 38 | 82 | 34 | | 36 | 56 | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.43 | 706 | 43.271 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 1.43 | 908 | 43.271 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| 285 | 607 | 540 | 879 | 666 | 1150 | 816 | | | | | | | $M_2$ | 1.43 | 1250 | 43.271 |
| 3.3 | 2.0 | 1.9 | 1.4 | 1.6 | 1.1 | 1.3 | | | | | | | c | | | |
| 83 | 35 | 75 | 35 | 75 | 31 | 75 | | | | | | | $n_{2\,Eck}$ | | | |
| 83 | 35 | 75 | 35 | 75 | 31 | 75 | | | | | | | $n_{2\,th}$ | | | |
| 312 | 661 | 589 | 956 | 726 | | | | | | | | | $M_2$ | 3.53 | 1250 | 50.000 |
| 2.2 | 1.9 | 1.3 | 1.3 | 1.1 | | | | | | | | | c | | | |
| 72 | 30 | 65 | 30 | 65 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 72 | 30 | 65 | 30 | 65 | | | | | | | | | $n_{2\,th}$ | | | |
| 342 | 722 | 645 | 1044 | 794 | | | | | | | | | $M_2$ | 2.89 | 1250 | 54.250 |
| 2.2 | 1.7 | 1.3 | 1.2 | 1.1 | | | | | | | | | c | | | |
| 66 | 28 | 60 | 28 | 60 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 66 | 28 | 59 | 28 | 59 | | | | | | | | | $n_{2\,th}$ | | | |
| 382 | 809 | 721 | 1169 | 888 | | | | | | | | | $M_2$ | 2.70 | 1250 | 61.250 |
| 2.1 | 1.5 | 1.2 | 1.1 | 1.0 | | | | | | | | | c | | | |
| 59 | 25 | 53 | 25 | 53 | | | | | | | | | $n_{2\,Eck}$ | | | |
| 59 | 24 | 53 | 24 | 53 | | | | | | | | | $n_{2\,th}$ | | | |
| 444 | 935 | 837 | | | | | | | | | | | $M_2$ | 1.81 | 1250 | 70.611 |
| 2.1 | 1.3 | 1.2 | | | | | | | | | | | c | | | |
| 51 | 21 | 46 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 51 | 21 | 46 | | | | | | | | | | | $n_{2\,th}$ | | | |
| 497 | 1047 | 936 | | | | | | | | | | | $M_2$ | 1.70 | 1250 | 79.722 |
| 2.0 | 1.2 | 1.2 | | | | | | | | | | | c | | | |
| 45 | 19 | 41 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 45 | 19 | 40 | | | | | | | | | | | $n_{2\,th}$ | | | |
| 544 | 1140 | 1025 | | | | | | | | | | | $M_2$ | 1.34 | 1250 | 86.542 |
| 2.0 | 1.1 | 1.1 | | | | | | | | | | | c | | | |
| 42 | 17 | 37 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 41 | 17 | 37 | | | | | | | | | | | $n_{2\,th}$ | | | |
| 608 | | 1146 | | | | | | | | | | | $M_2$ | 1.26 | 1250 | 97.708 |
| 1.9 | | 1.0 | | | | | | | | | | | c | | | |
| 37 | | 33 | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| 37 | | 33 | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.83 | 1250 | 113.667 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |
| | | | | | | | | | | | | | $M_2$ | 0.79 | 1250 | 128.333 |
| | | | | | | | | | | | | | c | | | |
| | | | | | | | | | | | | | $n_{2\,Eck}$ | | | |
| | | | | | | | | | | | | | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

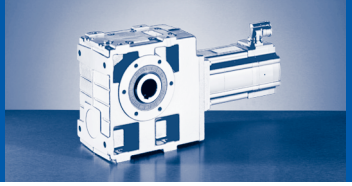
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2S | | | | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 | 12LC20 | 12LC41 | 14DC15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 | 13.50 | 11.00 | 9.20 |
| | | | $n_1$ | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 | 1950 | 4050 | 1500 |
| | | | $I_{M\,230}$ | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | | 11.8 | | |
| | | | $I_{M\,400}$ | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 | 5.9 | 10.2 | 4.5 |
| | | | $P_N$ | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 | 2.80 | 4.70 | 1.45 |
| | | | $J_M$ | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 | 10.72 | 10.72 | 8.22 |
| 137.950 | 1250 | 0.61 | $M_2$ | 254 | 348 | 429 | 511 | 615 | 488 | 1116 | 914 | 862 | | | |
| | | | c | 4.7 | 3.5 | 2.8 | 2.4 | 2.0 | 2.5 | 1.1 | 1.4 | 1.4 | | | |
| | | | $n_{2\,Eck}$ | 29 | 27 | 29 | 29 | 14 | 29 | 11 | 22 | 26 | | | |
| | | | $n_{2\,th}$ | 29 | 27 | 29 | 29 | 14 | 29 | 11 | 22 | 26 | | | |
| 155.750 | 1250 | 0.58 | $M_2$ | 286 | 390 | 482 | 573 | 687 | 547 | 1241 | 1024 | 965 | | | |
| | | | c | 4.2 | 3.1 | 2.5 | 2.1 | 1.8 | 2.2 | 1.0 | 1.2 | 1.3 | | | |
| | | | $n_{2\,Eck}$ | 26 | 24 | 26 | 26 | 13 | 26 | 10 | 19 | 23 | | | |
| | | | $n_{2\,th}$ | 26 | 24 | 26 | 26 | 13 | 26 | 10 | 19 | 23 | | | |
| 174.375 | 1250 | 0.39 | $M_2$ | 322 | 439 | 542 | 644 | | | | | | | | |
| | | | c | 3.7 | 2.8 | 2.3 | 1.9 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 23 | 22 | 23 | 23 | | | | | | | | |
| | | | $n_{2\,th}$ | 23 | 22 | 23 | 23 | | | | | | | | |
| 196.875 | 1250 | 0.37 | $M_2$ | 362 | 493 | 607 | 722 | | | | | | | | |
| | | | c | 3.3 | 2.5 | 2.0 | 1.7 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 21 | 19 | 21 | 21 | | | | | | | | |
| | | | $n_{2\,th}$ | 21 | 19 | 21 | 21 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 14DC36 | 14HC15 | 14HC32 | 14LC15 | 14LC32 | 14PC14 | 14PC32 | 19FC14 | 19FC30 | 19JC14 | 19JC30 | 19PC14 | 19PC30 | GSS07-2S | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | | | | |
| 7.50 | 16.00 | 14.00 | 23.00 | 17.20 | 30.00 | 21.00 | 27.00 | 21.00 | 40.00 | 29.00 | 51.00 | 32.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3600 | 1500 | 3225 | 1500 | 3225 | 1350 | 3225 | 1425 | 3000 | 1425 | 3000 | 1350 | 3000 | $n_1$ | | | |
| | | | | | | | | | | | | | $I_{M\,230}$ | | | |
| 7.5 | 6.6 | 11.9 | 9.7 | 15.0 | 10.8 | 15.6 | 8.6 | 14.0 | 12.3 | 18.5 | 14.3 | 19.0 | $I_{M\,400}$ | | | |
| 2.80 | 2.50 | 4.70 | 3.60 | 5.80 | 4.20 | 7.10 | 4.00 | 6.60 | 6.00 | 9.10 | 7.20 | 10.00 | $P_N$ | | | |
| 8.22 | 14.32 | 14.32 | 23.44 | 23.44 | 34.74 | 34.82 | 65.12 | 65.04 | 105.04 | 105.12 | 160.12 | 160.04 | $J_M$ | | | |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.61 | 1250 | 137.950 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.58 | 1250 | 155.750 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.39 | 1250 | 174.375 |
| | | | | | | | | | | | | | $M_2$ c $n_{2\,Eck}$ $n_{2\,th}$ | 0.37 | 1250 | 196.875 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

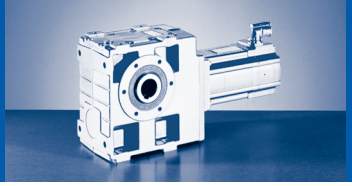
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 126.531 | 1250 | 0.86 | $M_2$ | | | 145 | 227 | 309 | 381 | 453 | 539 | 432 | 979 | 802 | 761 |
| | | | c | | | 5.1 | 3.3 | 2.5 | 2.0 | 1.7 | 2.3 | 1.8 | 1.3 | 1.6 | 1.0 |
| | | | $n_{2\,Eck}$ | | | 32 | 32 | 30 | 32 | 32 | 15 | 32 | 12 | 24 | 28 |
| | | | $n_{2\,th}$ | | | 32 | 32 | 30 | 32 | 32 | 15 | 32 | 12 | 24 | 28 |
| 142.857 | 1250 | 0.82 | $M_2$ | | | 162 | 254 | 346 | 426 | 507 | 603 | 484 | 1090 | 899 | |
| | | | c | | | 4.9 | 3.2 | 2.4 | 1.9 | 1.6 | 2.1 | 1.7 | 1.2 | 1.4 | |
| | | | $n_{2\,Eck}$ | | | 28 | 28 | 26 | 28 | 28 | 14 | 28 | 11 | 21 | |
| | | | $n_{2\,th}$ | | | 28 | 28 | 26 | 28 | 28 | 14 | 28 | 11 | 21 | |
| 155.000 | 1250 | 0.74 | $M_2$ | | | 176 | 276 | 376 | 464 | 552 | 658 | 527 | 1195 | 978 | |
| | | | c | | | 4.9 | 3.2 | 2.4 | 1.9 | 1.6 | 1.9 | 1.7 | 1.1 | 1.3 | |
| | | | $n_{2\,Eck}$ | | | 26 | 26 | 24 | 26 | 26 | 13 | 26 | 10 | 19 | |
| | | | $n_{2\,th}$ | | | 26 | 26 | 24 | 26 | 26 | 13 | 26 | 10 | 19 | |
| 175.000 | 1250 | 0.72 | $M_2$ | | 156 | 198 | 310 | 422 | 520 | 618 | 734 | 590 | | 1095 | |
| | | | c | | 5.8 | 4.6 | 3.0 | 2.2 | 1.8 | 1.5 | 1.7 | 1.6 | | 1.1 | |
| | | | $n_{2\,Eck}$ | | 23 | 23 | 23 | 21 | 23 | 23 | 11 | 23 | | 17 | |
| | | | $n_{2\,th}$ | | 23 | 23 | 23 | 21 | 23 | 23 | 11 | 23 | | 17 | |
| 201.746 | 1250 | 0.37 | $M_2$ | | 181 | 229 | 358 | 487 | 600 | 712 | | | | | |
| | | | c | | 5.3 | 4.2 | 2.8 | 2.1 | 1.7 | 1.4 | | | | | |
| | | | $n_{2\,Eck}$ | | 20 | 20 | 20 | 19 | 20 | 20 | | | | | |
| | | | $n_{2\,th}$ | | 20 | 20 | 20 | 19 | 20 | 20 | | | | | |
| 227.778 | 1250 | 0.36 | $M_2$ | | 203 | 257 | 401 | 545 | 671 | 797 | | | | | |
| | | | c | | 5.0 | 4.0 | 2.6 | 2.0 | 1.6 | 1.3 | | | | | |
| | | | $n_{2\,Eck}$ | | 18 | 18 | 18 | 17 | 18 | 18 | | | | | |
| | | | $n_{2\,th}$ | | 18 | 18 | 18 | 16 | 18 | 18 | | | | | |
| 247.139 | 1250 | 0.33 | $M_2$ | | 222 | 280 | 437 | 594 | 731 | 868 | | | | | |
| | | | c | | 4.6 | 3.7 | 2.4 | 1.8 | 1.5 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | | 16 | 16 | 16 | 15 | 16 | 16 | | | | | |
| | | | $n_{2\,th}$ | | 16 | 16 | 16 | 15 | 16 | 16 | | | | | |
| 279.028 | 1250 | 0.32 | $M_2$ | | 248 | 313 | 488 | 662 | 815 | 968 | | | | | |
| | | | c | | 4.4 | 3.5 | 2.3 | 1.7 | 1.4 | 1.2 | | | | | |
| | | | $n_{2\,Eck}$ | | 15 | 15 | 15 | 13 | 15 | 15 | | | | | |
| | | | $n_{2\,th}$ | | 15 | 15 | 15 | 13 | 15 | 15 | | | | | |
| 321.673 | 1250 | 0.28 | $M_2$ | | 291 | 367 | 569 | 771 | 947 | | | | | | |
| | | | c | | 3.2 | 2.6 | 1.7 | 1.2 | 1.0 | | | | | | |
| | | | $n_{2\,Eck}$ | | 13 | 13 | 13 | 12 | 13 | | | | | | |
| | | | $n_{2\,th}$ | | 13 | 13 | 13 | 12 | 13 | | | | | | |
| 363.179 | 1250 | 0.28 | $M_2$ | | 323 | 407 | 631 | 855 | 1051 | | | | | | |
| | | | c | | 3.2 | 2.6 | 1.7 | 1.2 | 1.0 | | | | | | |
| | | | $n_{2\,Eck}$ | | 11 | 11 | 11 | 10 | 11 | | | | | | |
| | | | $n_{2\,th}$ | | 11 | 11 | 11 | 10 | 11 | | | | | | |
| 394.245 | 1250 | 0.26 | $M_2$ | 171 | 355 | 447 | 693 | 939 | | | | | | | |
| | | | c | 5.7 | 2.9 | 2.3 | 1.5 | 1.1 | | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| | | | $n_{2\,th}$ | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| 445.116 | 1250 | 0.26 | $M_2$ | 189 | 393 | 495 | 767 | 1038 | | | | | | | |
| | | | c | 5.7 | 2.9 | 2.3 | 1.5 | 1.1 | | | | | | | |
| | | | $n_{2\,Eck}$ | 9 | 9 | 9 | 9 | 8 | | | | | | | |
| | | | $n_{2\,th}$ | 9 | 9 | 9 | 9 | 8 | | | | | | | |
| 490.403 | 1250 | 0.18 | $M_2$ | 211 | 436 | 548 | 848 | | | | | | | | |
| | | | c | 5.0 | 2.5 | 2.0 | 1.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 8 | 8 | 8 | 8 | | | | | | | | |
| | | | $n_{2\,th}$ | 8 | 8 | 8 | 8 | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| GSS07-3S | | | | 06CC41 | 06FC41 | 06IC41 | 09DC41 | 09FC38 | 09HC41 | 09LC41 | 12DC20 | 12DC41 | 12HC15 | 12HC30 | 12HC35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 0.60 | 1.20 | 1.50 | 2.30 | 3.10 | 3.80 | 4.50 | 5.50 | 4.30 | 10.00 | 8.00 | 7.50 |
| | | | $n_1$ | 4050 | 4050 | 4050 | 4050 | 3750 | 4050 | 4050 | 1950 | 4050 | 1500 | 3000 | 3525 |
| | | | $I_{M\,230}$ | 2.6 | 2.9 | 3.2 | 4.6 | 5.0 | 6.8 | 8.4 | 5.2 | 8.8 | 7.6 | 10.5 | |
| | | | $I_{M\,400}$ | 1.3 | 1.5 | 1.6 | 2.3 | 2.5 | 3.4 | 4.2 | 2.6 | 4.5 | 3.8 | | 5.7 |
| | | | $P_N$ | 0.25 | 0.51 | 0.64 | 1.00 | 1.20 | 1.60 | 1.90 | 1.10 | 1.80 | 1.60 | 2.50 | 2.80 |
| | | | $J_M$ | 0.17 | 0.25 | 0.33 | 1.13 | 1.53 | 1.93 | 2.83 | 4.12 | 4.12 | 7.42 | 7.42 | 7.42 |
| 553.681 | 1250 | 0.18 | $M_2$ | 235 | 485 | 610 | 943 | | | | | | | | |
| | | | c | 4.8 | 2.4 | 1.9 | 1.3 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 7 | 7 | 7 | 7 | | | | | | | | |
| | | | $n_{2\,th}$ | 7 | 7 | 7 | 7 | | | | | | | | |
| 634.639 | 1250 | 0.11 | $M_2$ | 272 | 559 | 703 | | | | | | | | | |
| | | | c | 4.2 | 2.1 | 1.7 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | 6 | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | | | | | | | | | |
| 716.528 | 1250 | 0.11 | $M_2$ | 303 | 622 | 782 | | | | | | | | | |
| | | | c | 3.7 | 1.9 | 1.5 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 6 | 6 | 6 | | | | | | | | | |
| | | | $n_{2\,th}$ | 6 | 6 | 6 | | | | | | | | | |
| 833.556 | 1250 | 0.11 | $M_2$ | 357 | 728 | 914 | | | | | | | | | |
| | | | c | 3.0 | 1.5 | 1.2 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 5 | 5 | 5 | | | | | | | | | |
| | | | $n_{2\,th}$ | 5 | 5 | 5 | | | | | | | | | |
| 941.111 | 1250 | 0.11 | $M_2$ | 396 | 807 | 1013 | | | | | | | | | |
| | | | c | 2.9 | 1.4 | 1.2 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | | | | | | | | | |
| 1011.633 | 1250 | 0.08 | $M_2$ | 428 | 872 | 1093 | | | | | | | | | |
| | | | c | 2.6 | 1.3 | 1.1 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | 4 | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | 4 | | | | | | | | | |
| 1142.167 | 1250 | 0.08 | $M_2$ | 475 | 966 | | | | | | | | | | |
| | | | c | 2.4 | 1.2 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 4 | 4 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 4 | 4 | | | | | | | | | | |
| 1227.755 | 1250 | 0.07 | $M_2$ | 513 | 1042 | | | | | | | | | | |
| | | | c | 2.2 | 1.1 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | | | | | | | | | | |
| 1386.175 | 1250 | 0.07 | $M_2$ | 569 | 1154 | | | | | | | | | | |
| | | | c | 2.0 | 1.0 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 3 | 3 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 3 | 3 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

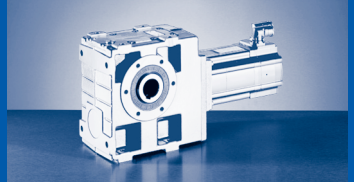
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 180$ Nm

| GSS04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 5.639 | 108 | 1.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 10<br>4.4<br>701<br>700 | | |
| 5.639 | 149 | 1.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 31<br>1.7<br>605<br>605 | 20<br>2.2<br>718<br>718 |
| 7.733 | 149 | 0.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13<br>5.4<br>511<br>511 | | |
| 7.733 | 158 | 0.65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 43<br>2.0<br>441<br>441 | 27<br>2.7<br>524<br>524 |
| 9.042 | 154 | 0.81 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 50<br>2.1<br>377<br>377 | 31<br>3.1<br>448<br>448 |
| 9.897 | 161 | 0.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 17<br>5.7<br>399<br>399 | 55<br>2.1<br>345<br>345 | 35<br>2.9<br>409<br>409 |
| 10.827 | 161 | 0.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 18<br>5.7<br>365<br>365 | 61<br>2.1<br>315<br>315 | 38<br>2.9<br>374<br>374 |
| 12.400 | 170 | 0.49 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 21<br>5.5<br>319<br>319 | 69<br>1.8<br>275<br>275 | 43<br>2.7<br>327<br>327 |
| 13.810 | 163 | 0.25 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 24<br>5.8<br>286<br>286 | 78<br>1.9<br>247<br>247 | 49<br>2.9<br>293<br>293 |
| 15.869 | 180 | 0.33 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 27<br>4.7<br>249<br>249 | 88<br>1.6<br>215<br>215 | 55<br>2.3<br>255<br>255 |
| 17.360 | 180 | 0.28 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 30<br>4.4<br>228<br>228 | 96<br>1.5<br>196<br>196 | 61<br>2.2<br>233<br>233 |
| 20.417 | 153 | 0.67 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 32<br>3.2<br>194<br>193 | 103<br>1.1<br>167<br>167 | 65<br>1.6<br>198<br>198 |
| 22.143 | 180 | 0.20 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 38<br>3.8<br>178<br>178 | 123<br>1.2<br>154<br>154 | 78<br>1.9<br>183<br>183 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 180$ Nm

| GSS04-2A | | | | 10IC40 | 13IC34 | 13IC41 |
|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 |
| | | | $n_1$ | 3950 | 3410 | 4050 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 |
| 24.800 | 171 | 0.42 | $M_2$ | 40 | | 81 |
| | | | c | 2.9 | | 1.5 |
| | | | $n_{2\,Eck}$ | 159 | | 163 |
| | | | $n_{2\,th}$ | 159 | | 163 |
| 27.125 | 180 | 0.14 | $M_2$ | 47 | 150 | 95 |
| | | | c | 3.3 | 1.1 | 1.6 |
| | | | $n_{2\,Eck}$ | 146 | 126 | 149 |
| | | | $n_{2\,th}$ | 146 | 126 | 149 |
| 31.738 | 180 | 0.29 | $M_2$ | 51 | | 104 |
| | | | c | 2.5 | | 1.3 |
| | | | $n_{2\,Eck}$ | 125 | | 128 |
| | | | $n_{2\,th}$ | 124 | | 128 |
| 34.100 | 180 | 0.10 | $M_2$ | 59 | | |
| | | | c | 2.8 | | |
| | | | $n_{2\,Eck}$ | 116 | | |
| | | | $n_{2\,th}$ | 116 | | |
| 39.200 | 180 | 0.25 | $M_2$ | 62 | | 126 |
| | | | c | 2.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | 101 | | 103 |
| | | | $n_{2\,th}$ | 101 | | 103 |
| 43.917 | 180 | 0.06 | $M_2$ | 76 | | |
| | | | c | 2.3 | | |
| | | | $n_{2\,Eck}$ | 90 | | |
| | | | $n_{2\,th}$ | 90 | | |
| 50.000 | 180 | 0.17 | $M_2$ | 79 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 79 | | |
| | | | $n_{2\,th}$ | 79 | | |
| 54.250 | 180 | 0.13 | $M_2$ | 87 | | |
| | | | c | 1.8 | | |
| | | | $n_{2\,Eck}$ | 73 | | |
| | | | $n_{2\,th}$ | 73 | | |
| 61.250 | 180 | 0.13 | $M_2$ | 96 | | |
| | | | c | 1.6 | | |
| | | | $n_{2\,Eck}$ | 65 | | |
| | | | $n_{2\,th}$ | 64 | | |
| 68.200 | 180 | 0.09 | $M_2$ | 109 | | |
| | | | c | 1.5 | | |
| | | | $n_{2\,Eck}$ | 58 | | |
| | | | $n_{2\,th}$ | 58 | | |
| 77.000 | 180 | 0.09 | $M_2$ | 120 | | |
| | | | c | 1.4 | | |
| | | | $n_{2\,Eck}$ | 51 | | |
| | | | $n_{2\,th}$ | 51 | | |
| 87.833 | 180 | 0.06 | $M_2$ | 140 | | |
| | | | c | 1.3 | | |
| | | | $n_{2\,Eck}$ | 45 | | |
| | | | $n_{2\,th}$ | 45 | | |
| 99.167 | 180 | 0.06 | $M_2$ | 154 | | |
| | | | c | 1.2 | | |
| | | | $n_{2\,Eck}$ | 40 | | |
| | | | $n_{2\,th}$ | 40 | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

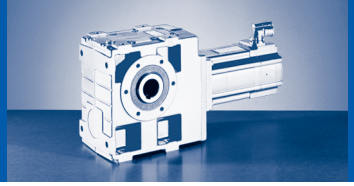
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 5.639 | 219 | 2.82 | $M_2$ | | 31 | 19 | | | | |
| | | | c | | 3.8 | 5.4 | | | | |
| | | | $n_{2\,Eck}$ | | 605 | 718 | | | | |
| | | | $n_{2\,th}$ | | 605 | 718 | | | | |
| 5.639 | 223 | 2.82 | $M_2$ | | | | 60 | 33 | 54 | 26 |
| | | | c | | | | 3.2 | 5.1 | 2.2 | 4.0 |
| | | | $n_{2\,Eck}$ | | | | 290 | 355 | 613 | 727 |
| | | | $n_{2\,th}$ | | | | 290 | 355 | 613 | 637 |
| 7.733 | 267 | 1.66 | $M_2$ | | 43 | 27 | 83 | 45 | 75 | 37 |
| | | | c | | 3.4 | 4.9 | 2.9 | 4.7 | 2.0 | 3.6 |
| | | | $n_{2\,Eck}$ | | 441 | 524 | 211 | 259 | 447 | 530 |
| | | | $n_{2\,th}$ | | 441 | 524 | 211 | 259 | 447 | 464 |
| 9.042 | 251 | 2.01 | $M_2$ | | 48 | 30 | 94 | 52 | 84 | 41 |
| | | | c | | 2.6 | 3.3 | 2.5 | 4.2 | 1.5 | 2.5 |
| | | | $n_{2\,Eck}$ | | 377 | 448 | 181 | 221 | 382 | 454 |
| | | | $n_{2\,th}$ | | 377 | 448 | 181 | 221 | 382 | 397 |
| 9.897 | 271 | 1.10 | $M_2$ | | 55 | 35 | 107 | 58 | 96 | 47 |
| | | | c | | 3.2 | 4.6 | 2.5 | 4.3 | 1.8 | 3.4 |
| | | | $n_{2\,Eck}$ | | 345 | 409 | 165 | 202 | 349 | 414 |
| | | | $n_{2\,th}$ | | 345 | 409 | 165 | 202 | 349 | 363 |
| 10.827 | 272 | 0.94 | $M_2$ | | 61 | 38 | 117 | 64 | 105 | 52 |
| | | | c | | 3.1 | 4.4 | 2.3 | 4.0 | 1.8 | 3.3 |
| | | | $n_{2\,Eck}$ | | 315 | 374 | 151 | 185 | 319 | 379 |
| | | | $n_{2\,th}$ | | 315 | 374 | 151 | 185 | 319 | 332 |
| 12.400 | 279 | 1.24 | $M_2$ | | 67 | 42 | 130 | 72 | 117 | 57 |
| | | | c | | 2.7 | 3.8 | 2.0 | 3.4 | 1.6 | 2.8 |
| | | | $n_{2\,Eck}$ | | 275 | 327 | 132 | 161 | 279 | 331 |
| | | | $n_{2\,th}$ | | 275 | 327 | 132 | 161 | 279 | 290 |
| 13.810 | 275 | 0.64 | $M_2$ | | 78 | 49 | 151 | 83 | 135 | 66 |
| | | | c | | 2.9 | 4.1 | 1.8 | 3.2 | 1.7 | 3.1 |
| | | | $n_{2\,Eck}$ | | 247 | 293 | 118 | 145 | 250 | 297 |
| | | | $n_{2\,th}$ | | 247 | 293 | 118 | 145 | 250 | 260 |
| 15.869 | 301 | 0.84 | $M_2$ | | 87 | 54 | 168 | 92 | 150 | 74 |
| | | | c | | 2.5 | 3.8 | 1.7 | 2.9 | 1.5 | 2.8 |
| | | | $n_{2\,Eck}$ | | 215 | 255 | 103 | 126 | 218 | 258 |
| | | | $n_{2\,th}$ | | 215 | 255 | 103 | 126 | 218 | 226 |
| 17.360 | 311 | 0.72 | $M_2$ | | 95 | 60 | 184 | 101 | 165 | 81 |
| | | | c | | 2.4 | 3.6 | 1.6 | 2.7 | 1.4 | 2.7 |
| | | | $n_{2\,Eck}$ | | 196 | 233 | 94 | 115 | 199 | 236 |
| | | | $n_{2\,th}$ | | 196 | 233 | 94 | 115 | 199 | 207 |
| 20.417 | 253 | 1.60 | $M_2$ | | 99 | 62 | 196 | 108 | | 85 |
| | | | c | | 1.4 | 2.1 | 1.2 | 2.0 | | 1.5 |
| | | | $n_{2\,Eck}$ | | 167 | 198 | 80 | 98 | | 201 |
| | | | $n_{2\,th}$ | | 167 | 198 | 80 | 98 | | 176 |
| 22.143 | 337 | 0.50 | $M_2$ | | 122 | 77 | 235 | 130 | 211 | 104 |
| | | | c | | 2.0 | 3.1 | 1.3 | 2.3 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | 154 | 183 | 74 | 90 | 156 | 185 |
| | | | $n_{2\,th}$ | | 154 | 183 | 74 | 90 | 156 | 162 |
| 24.800 | 280 | 1.06 | $M_2$ | | 125 | 79 | 245 | 135 | | 107 |
| | | | c | | 1.6 | 2.2 | 1.1 | 1.8 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 138 | 163 | 66 | 81 | | 165 |
| | | | $n_{2\,th}$ | | 138 | 163 | 66 | 81 | | 145 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 360$ Nm

| GSS05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 27.125 | 360 | 0.38 | $M_2$ | 46 | 150 | 94 | 288 | 160 | 260 | 128 |
| | | | c | 5.3 | 1.8 | 2.7 | 1.2 | 2.0 | 1.0 | 2.0 |
| | | | $n_{2\,Eck}$ | 146 | 126 | 149 | 60 | 74 | 127 | 151 |
| | | | $n_{2\,th}$ | 146 | 126 | 149 | 60 | 74 | 127 | 132 |
| 31.738 | 306 | 0.73 | $M_2$ | 50 | 162 | 102 | | 174 | | 139 |
| | | | c | 4.1 | 1.3 | 2.0 | | 1.5 | | 1.5 |
| | | | $n_{2\,Eck}$ | 125 | 107 | 128 | | 63 | | 129 |
| | | | $n_{2\,th}$ | 124 | 107 | 128 | | 63 | | 113 |
| 35.306 | 360 | 0.23 | $M_2$ | 60 | 196 | 124 | | | | |
| | | | c | 4.5 | 1.5 | 2.2 | | | | |
| | | | $n_{2\,Eck}$ | 112 | 97 | 115 | | | | |
| | | | $n_{2\,th}$ | 112 | 97 | 115 | | | | |
| 39.200 | 323 | 0.61 | $M_2$ | 61 | 198 | 125 | | 211 | | 169 |
| | | | c | 3.5 | 1.2 | 1.8 | | 1.3 | | 1.3 |
| | | | $n_{2\,Eck}$ | 101 | 87 | 103 | | 51 | | 105 |
| | | | $n_{2\,th}$ | 101 | 87 | 103 | | 51 | | 92 |
| 43.917 | 360 | 0.17 | $M_2$ | 76 | 245 | 154 | | | | |
| | | | c | 3.9 | 1.3 | 1.9 | | | | |
| | | | $n_{2\,Eck}$ | 90 | 78 | 92 | | | | |
| | | | $n_{2\,th}$ | 90 | 78 | 92 | | | | |
| 50.000 | 353 | 0.44 | $M_2$ | 79 | | 160 | | 271 | | 217 |
| | | | c | 3.0 | | 1.5 | | 1.2 | | 1.1 |
| | | | $n_{2\,Eck}$ | 79 | | 81 | | 40 | | 82 |
| | | | $n_{2\,th}$ | 79 | | 81 | | 40 | | 72 |
| 54.250 | 360 | 0.34 | $M_2$ | 87 | | 178 | | 299 | | 241 |
| | | | c | 2.9 | | 1.4 | | 1.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | 73 | | 75 | | 37 | | 76 |
| | | | $n_{2\,th}$ | 73 | | 75 | | 37 | | 66 |
| 61.250 | 360 | 0.33 | $M_2$ | 97 | | 197 | | 332 | | |
| | | | c | 2.6 | | 1.3 | | 1.0 | | |
| | | | $n_{2\,Eck}$ | 65 | | 66 | | 33 | | |
| | | | $n_{2\,th}$ | 64 | | 66 | | 33 | | |
| 70.611 | 360 | 0.21 | $M_2$ | 114 | | 232 | | | | |
| | | | c | 2.4 | | 1.2 | | | | |
| | | | $n_{2\,Eck}$ | 56 | | 57 | | | | |
| | | | $n_{2\,th}$ | 56 | | 57 | | | | |
| 79.722 | 360 | 0.21 | $M_2$ | 127 | | 258 | | | | |
| | | | c | 2.2 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 50 | | 51 | | | | |
| | | | $n_{2\,th}$ | 50 | | 51 | | | | |
| 87.833 | 360 | 0.15 | $M_2$ | 143 | | 289 | | | | |
| | | | c | 2.1 | | 1.1 | | | | |
| | | | $n_{2\,Eck}$ | 45 | | 46 | | | | |
| | | | $n_{2\,th}$ | 45 | | 46 | | | | |
| 99.167 | 360 | 0.15 | $M_2$ | 159 | | | | | | |
| | | | c | 2.0 | | | | | | |
| | | | $n_{2\,Eck}$ | 40 | | | | | | |
| | | | $n_{2\,th}$ | 40 | | | | | | |
| 113.667 | 360 | 0.10 | $M_2$ | 186 | | | | | | |
| | | | c | 1.8 | | | | | | |
| | | | $n_{2\,Eck}$ | 35 | | | | | | |
| | | | $n_{2\,th}$ | 35 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

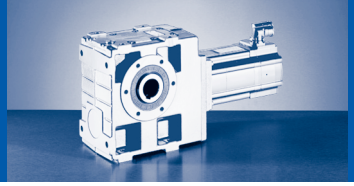
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 360$ Nm

| GSS05-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 128.333 | 360 | 0.09 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 206<br>1.7<br>31<br>31 | | | | | | |
| 137.950 | 360 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 226<br>1.6<br>29<br>29 | | | | | | |
| 155.750 | 360 | 0.07 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 251<br>1.4<br>25<br>25 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 360$ Nm

| GSS05-3A | | | | 10IC40 |
|---|---|---|---|---|
| | | | | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 |
| | | | $n_1$ | 3950 |
| | | | $I_{M\,400}$ | 2.4 |
| | | | $P_N$ | 0.80 |
| | | | $J_M$ | 2.44 |
| 125.476 | 339 | 0.15 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 218<br>1.2<br>32<br>31 |
| 153.708 | 356 | 0.12 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 265<br>1.0<br>26<br>26 |
| 222.133 | 360 | 0.21 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 353<br>1.0<br>18<br>18 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

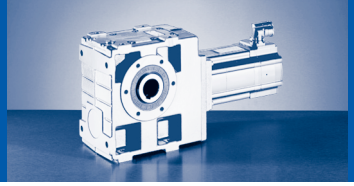
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 5.833 | 356 | 6.97 | $M_2$ | | | | 61 | | 56 | 27 | 113 | 56 | 100 | 49 |
| | | | c | | | | 4.9 | | 2.6 | 4.3 | 2.7 | 3.9 | 1.5 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 280 | | 592 | 703 | 288 | 394 | 597 | 705 |
| | | | $n_{2\,th}$ | | | | 280 | | 592 | 615 | 288 | 394 | 533 | 533 |
| 8.000 | 489 | 4.22 | $M_2$ | | | | 85 | | 77 | 38 | 155 | 77 | 137 | 68 |
| | | | c | | | | 4.4 | | 2.8 | 4.9 | 2.4 | 3.8 | 1.6 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | 204 | | 432 | 513 | 210 | 288 | 435 | 514 |
| | | | $n_{2\,th}$ | | | | 204 | | 432 | 449 | 210 | 288 | 389 | 389 |
| 9.042 | 417 | 5.54 | $M_2$ | | | | 95 | | 86 | 42 | 173 | 86 | 153 | 76 |
| | | | c | | | | 3.8 | | 2.6 | 4.7 | 2.1 | 3.2 | 1.5 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 181 | | 382 | 454 | 186 | 254 | 385 | 455 |
| | | | $n_{2\,th}$ | | | | 181 | | 382 | 397 | 186 | 254 | 344 | 344 |
| 10.238 | 397 | 2.81 | $M_2$ | | 57 | | | | | | | | | |
| | | | c | | 4.8 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 333 | | | | | | | | | |
| | | | $n_{2\,th}$ | | 333 | | | | | | | | | |
| 10.238 | 522 | 2.81 | $M_2$ | | | | 109 | | 99 | 48 | 199 | 99 | 177 | 87 |
| | | | c | | | | 4.5 | | 2.8 | 5.0 | 2.5 | 3.5 | 1.6 | 2.9 |
| | | | $n_{2\,Eck}$ | | | | 160 | | 338 | 401 | 164 | 225 | 340 | 401 |
| | | | $n_{2\,th}$ | | | | 160 | | 337 | 351 | 164 | 225 | 304 | 304 |
| 11.200 | 440 | 2.39 | $M_2$ | | 62 | | | | | | | | | |
| | | | c | | 4.7 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 305 | | | | | | | | | |
| | | | $n_{2\,th}$ | | 304 | | | | | | | | | |
| 11.200 | 524 | 2.39 | $M_2$ | | | | 119 | | 109 | 53 | 218 | 108 | 193 | 95 |
| | | | c | | | | 4.2 | | 2.8 | 5.0 | 2.4 | 3.4 | 1.6 | 2.8 |
| | | | $n_{2\,Eck}$ | | | | 146 | | 309 | 366 | 150 | 205 | 311 | 367 |
| | | | $n_{2\,th}$ | | | | 146 | | 308 | 321 | 150 | 205 | 278 | 278 |
| 12.400 | 523 | 3.46 | $M_2$ | | | | 130 | 71 | 119 | 58 | 237 | 118 | 211 | 104 |
| | | | c | | | | 3.4 | 5.5 | 2.3 | 4.3 | 1.9 | 2.9 | 1.3 | 2.4 |
| | | | $n_{2\,Eck}$ | | | | 132 | 161 | 279 | 331 | 136 | 186 | 281 | 332 |
| | | | $n_{2\,th}$ | | | | 132 | 161 | 279 | 290 | 135 | 185 | 251 | 251 |
| 14.286 | 513 | 1.63 | $M_2$ | | 80 | | | | | | | | | |
| | | | c | | 4.4 | | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 239 | | | | | | | | | |
| | | | $n_{2\,th}$ | | 239 | | | | | | | | | |
| 14.286 | 528 | 1.63 | $M_2$ | | | | 154 | 83 | 139 | 68 | 281 | 138 | 248 | 122 |
| | | | c | | | | 3.3 | 6.0 | 2.6 | 4.7 | 1.9 | 3.5 | 1.5 | 2.7 |
| | | | $n_{2\,Eck}$ | | | | 115 | 140 | 242 | 287 | 118 | 161 | 244 | 288 |
| | | | $n_{2\,th}$ | | | | 114 | 140 | 242 | 251 | 118 | 161 | 218 | 218 |
| 15.869 | 597 | 2.35 | $M_2$ | | 87 | 54 | | | | | | | | |
| | | | c | | 3.7 | 5.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | | 215 | 255 | | | | | | | | |
| | | | $n_{2\,th}$ | | 215 | 255 | | | | | | | | |
| 15.869 | 605 | 2.35 | $M_2$ | | | | 166 | 91 | 152 | 75 | 303 | 151 | 270 | 134 |
| | | | c | | | | 3.2 | 5.2 | 2.2 | 4.0 | 1.8 | 2.7 | 1.2 | 2.3 |
| | | | $n_{2\,Eck}$ | | | | 103 | 126 | 218 | 258 | 106 | 145 | 219 | 259 |
| | | | $n_{2\,th}$ | | | | 103 | 126 | 218 | 226 | 106 | 145 | 196 | 196 |
| 17.360 | 624 | 2.01 | $M_2$ | | 95 | 60 | 182 | 100 | 166 | 82 | 331 | 165 | 296 | 146 |
| | | | c | | 3.6 | 5.2 | 3.1 | 5.0 | 2.1 | 3.9 | 1.8 | 2.7 | 1.2 | 2.2 |
| | | | $n_{2\,Eck}$ | | 196 | 233 | 94 | 115 | 199 | 236 | 97 | 133 | 201 | 237 |
| | | | $n_{2\,th}$ | | 196 | 233 | 94 | 115 | 199 | 207 | 97 | 132 | 179 | 179 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| GSS06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 20.417 | 488 | 4.17 | $M_2$ | | | | 201 | 111 | 182 | 89 | 364 | 182 | | 160 |
| | | | c | | | | 2.1 | 3.4 | 1.4 | 2.6 | 1.2 | 1.8 | | 1.5 |
| | | | $n_{2\,Eck}$ | | | | 80 | 98 | 169 | 201 | 82 | 113 | | 201 |
| | | | $n_{2\,th}$ | | | | 80 | 98 | 169 | 176 | 82 | 113 | | 152 |
| 22.143 | 673 | 1.39 | $M_2$ | | 122 | 76 | 232 | 127 | 212 | 104 | 422 | 211 | 377 | 187 |
| | | | c | | 3.4 | 4.9 | 2.7 | 4.6 | 2.0 | 3.6 | 1.5 | 2.5 | 1.1 | 2.1 |
| | | | $n_{2\,Eck}$ | | 154 | 183 | 74 | 90 | 156 | 185 | 76 | 104 | 157 | 186 |
| | | | $n_{2\,th}$ | | 154 | 183 | 74 | 90 | 156 | 162 | 76 | 104 | 141 | 141 |
| 24.800 | 561 | 3.06 | $M_2$ | | | | 246 | 136 | 225 | 111 | 445 | 223 | | 197 |
| | | | c | | | | 2.0 | 3.3 | 1.4 | 2.5 | 1.1 | 1.7 | | 1.4 |
| | | | $n_{2\,Eck}$ | | | | 66 | 81 | 139 | 165 | 68 | 93 | | 166 |
| | | | $n_{2\,th}$ | | | | 66 | 81 | 139 | 145 | 68 | 93 | | 125 |
| 27.125 | 718 | 1.04 | $M_2$ | | 149 | 93 | 285 | 156 | 260 | 128 | 516 | 258 | 462 | 229 |
| | | | c | | 3.2 | 4.6 | 2.3 | 4.0 | 1.9 | 3.4 | 1.3 | 2.3 | 1.1 | 1.9 |
| | | | $n_{2\,Eck}$ | | 126 | 149 | 60 | 74 | 127 | 151 | 62 | 85 | 128 | 152 |
| | | | $n_{2\,th}$ | | 126 | 149 | 60 | 74 | 127 | 132 | 62 | 85 | 115 | 115 |
| 31.738 | 609 | 2.10 | $M_2$ | | 166 | 104 | 314 | 173 | 287 | 142 | 568 | 285 | | 253 |
| | | | c | | 2.2 | 3.1 | 1.8 | 3.0 | 1.3 | 2.3 | 1.0 | 1.6 | | 1.3 |
| | | | $n_{2\,Eck}$ | | 107 | 128 | 52 | 63 | 109 | 129 | 53 | 73 | | 130 |
| | | | $n_{2\,th}$ | | 107 | 128 | 52 | 63 | 109 | 113 | 53 | 72 | | 98 |
| 35.306 | 720 | 0.66 | $M_2$ | | 195 | 122 | 371 | 204 | 338 | 166 | | | | |
| | | | c | | 2.9 | 4.3 | 1.9 | 3.3 | 1.7 | 3.2 | | | | |
| | | | $n_{2\,Eck}$ | | 97 | 115 | 46 | 57 | 98 | 116 | | | | |
| | | | $n_{2\,th}$ | | 97 | 115 | 46 | 57 | 98 | 102 | | | | |
| 39.200 | 637 | 1.64 | $M_2$ | | 203 | 127 | 385 | 213 | 351 | 174 | | 349 | | 309 |
| | | | c | | 2.0 | 2.9 | 1.6 | 2.6 | 1.2 | 2.2 | | 1.5 | | 1.2 |
| | | | $n_{2\,Eck}$ | | 87 | 103 | 42 | 51 | 88 | 105 | | 59 | | 105 |
| | | | $n_{2\,th}$ | | 87 | 103 | 42 | 51 | 88 | 92 | | 59 | | 79 |
| 43.917 | 720 | 0.48 | $M_2$ | | 242 | 152 | 460 | 255 | 420 | 207 | | | | |
| | | | c | | 2.6 | 3.8 | 1.6 | 2.8 | 1.5 | 2.9 | | | | |
| | | | $n_{2\,Eck}$ | | 78 | 92 | 37 | 46 | 79 | 93 | | | | |
| | | | $n_{2\,th}$ | | 78 | 92 | 37 | 46 | 79 | 82 | | | | |
| 50.000 | 693 | 1.16 | $M_2$ | 79 | 258 | 162 | 488 | 271 | 447 | 221 | | 444 | | 393 |
| | | | c | 5.5 | 1.9 | 2.7 | 1.3 | 2.2 | 1.1 | 2.0 | | 1.3 | | 1.2 |
| | | | $n_{2\,Eck}$ | 79 | 68 | 81 | 33 | 40 | 69 | 82 | | 46 | | 82 |
| | | | $n_{2\,th}$ | 79 | 68 | 81 | 33 | 40 | 69 | 72 | | 46 | | 62 |
| 54.250 | 720 | 0.96 | $M_2$ | | 282 | 177 | 534 | 296 | 488 | 242 | | 484 | | 429 |
| | | | c | | 1.9 | 2.7 | 1.3 | 2.2 | 1.1 | 2.0 | | 1.2 | | 1.1 |
| | | | $n_{2\,Eck}$ | | 63 | 75 | 30 | 37 | 64 | 76 | | 42 | | 76 |
| | | | $n_{2\,th}$ | | 63 | 75 | 30 | 37 | 64 | 66 | | 42 | | 57 |
| 61.250 | 720 | 0.89 | $M_2$ | | 316 | 199 | 596 | 331 | 547 | 270 | | 542 | | 480 |
| | | | c | | 1.7 | 2.6 | 1.2 | 2.0 | 1.0 | 1.9 | | 1.1 | | 1.1 |
| | | | $n_{2\,Eck}$ | | 56 | 66 | 27 | 33 | 56 | 67 | | 38 | | 67 |
| | | | $n_{2\,th}$ | | 56 | 66 | 27 | 33 | 56 | 59 | | 38 | | 51 |
| 70.611 | 720 | 0.61 | $M_2$ | 112 | 366 | 230 | 690 | 384 | | 313 | | | | |
| | | | c | 4.8 | 1.6 | 2.4 | 1.0 | 1.8 | | 1.8 | | | | |
| | | | $n_{2\,Eck}$ | 56 | 48 | 57 | 23 | 28 | | 58 | | | | |
| | | | $n_{2\,th}$ | 56 | 48 | 57 | 23 | 28 | | 51 | | | | |
| 79.722 | 720 | 0.57 | $M_2$ | 126 | 410 | 258 | | 429 | | 351 | | | | |
| | | | c | 4.4 | 1.5 | 2.2 | | 1.7 | | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 50 | 43 | 51 | | 25 | | 51 | | | | |
| | | | $n_{2\,th}$ | 50 | 43 | 51 | | 25 | | 45 | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

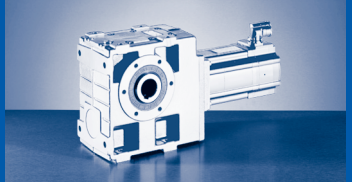
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 720$ Nm

| GSS06-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 | 17NC35 | 17NC41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 | 19.00 | 9.50 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 | 3480 | 4110 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 | 15.8 | 10.2 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 | 6.90 | 4.10 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 | 36.04 | 36.04 |
| 87.833 | 720 | 0.44 | $M_2$ | 140 | 455 | 286 | | 475 | | 389 | | | | |
| | | | c | 4.2 | 1.4 | 2.1 | | 1.5 | | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 45 | 39 | 46 | | 23 | | 47 | | | | |
| | | | $n_{2\,th}$ | 45 | 39 | 46 | | 23 | | 41 | | | | |
| 99.167 | 720 | 0.42 | $M_2$ | 157 | 509 | 321 | | 531 | | 436 | | | | |
| | | | c | 3.8 | 1.3 | 1.9 | | 1.4 | | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 40 | 34 | 41 | | 20 | | 41 | | | | |
| | | | $n_{2\,th}$ | 40 | 34 | 41 | | 20 | | 36 | | | | |
| 113.667 | 720 | 0.28 | $M_2$ | 181 | 587 | 370 | | | | | | | | |
| | | | c | 3.6 | 1.2 | 1.8 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 35 | 30 | 36 | | | | | | | | |
| | | | $n_{2\,th}$ | 35 | 30 | 36 | | | | | | | | |
| 128.333 | 720 | 0.26 | $M_2$ | 203 | 656 | 414 | | | | | | | | |
| | | | c | 3.2 | 1.1 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | | | | | | | | |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | | | | | | | | |
| 137.950 | 720 | 0.20 | $M_2$ | 219 | 709 | 447 | | | | | | | | |
| | | | c | 3.2 | 1.0 | 1.6 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 29 | 25 | 29 | | | | | | | | |
| | | | $n_{2\,th}$ | 29 | 25 | 29 | | | | | | | | |
| 155.750 | 720 | 0.19 | $M_2$ | 245 | | 499 | | | | | | | | |
| | | | c | 2.9 | | 1.4 | | | | | | | | |
| | | | $n_{2\,Eck}$ | 25 | | 26 | | | | | | | | |
| | | | $n_{2\,th}$ | 25 | | 26 | | | | | | | | |
| 174.375 | 720 | 0.13 | $M_2$ | 276 | | | | | | | | | | |
| | | | c | 2.5 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 23 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 23 | | | | | | | | | | |
| 196.875 | 720 | 0.12 | $M_2$ | 309 | | | | | | | | | | |
| | | | c | 2.3 | | | | | | | | | | |
| | | | $n_{2\,Eck}$ | 20 | | | | | | | | | | |
| | | | $n_{2\,th}$ | 20 | | | | | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 720$ Nm

| GSS06-3A | | | | 10IC40 | 13IC34 |
|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 |
| | | | $n_1$ | 3950 | 3410 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 |
| | | | $P_N$ | 0.80 | 2.20 |
| | | | $J_M$ | 2.44 | 8.34 |
| 126.531 | 720 | 0.31 | $M_2$ | 196 | 623 |
| | | | c | 1.9 | 1.1 |
| | | | $n_{2\,Eck}$ | 31 | 27 |
| | | | $n_{2\,th}$ | 31 | 27 |
| 142.857 | 720 | 0.30 | $M_2$ | 218 | 695 |
| | | | c | 1.9 | 1.0 |
| | | | $n_{2\,Eck}$ | 28 | 24 |
| | | | $n_{2\,th}$ | 28 | 24 |
| 155.000 | 720 | 0.27 | $M_2$ | 238 | |
| | | | c | 1.7 | |
| | | | $n_{2\,Eck}$ | 26 | |
| | | | $n_{2\,th}$ | 25 | |
| 175.000 | 720 | 0.26 | $M_2$ | 265 | |
| | | | c | 1.7 | |
| | | | $n_{2\,Eck}$ | 23 | |
| | | | $n_{2\,th}$ | 23 | |
| 194.857 | 720 | 0.14 | $M_2$ | 297 | |
| | | | c | 1.4 | |
| | | | $n_{2\,Eck}$ | 20 | |
| | | | $n_{2\,th}$ | 20 | |
| 220.000 | 720 | 0.14 | $M_2$ | 331 | |
| | | | c | 1.4 | |
| | | | $n_{2\,Eck}$ | 18 | |
| | | | $n_{2\,th}$ | 18 | |
| 238.700 | 720 | 0.13 | $M_2$ | 361 | |
| | | | c | 1.3 | |
| | | | $n_{2\,Eck}$ | 17 | |
| | | | $n_{2\,th}$ | 17 | |
| 269.500 | 720 | 0.12 | $M_2$ | 401 | |
| | | | c | 1.3 | |
| | | | $n_{2\,Eck}$ | 15 | |
| | | | $n_{2\,th}$ | 15 | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

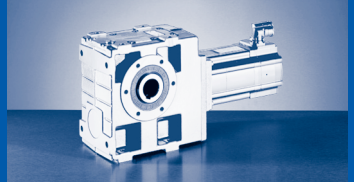
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 5.862 | 539 | 21.36 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 113<br>4.1<br>287<br>287 | |
| 8.125 | 685 | 12.75 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 157<br>3.7<br>207<br>207 | 77<br>5.6<br>283<br>283 |
| 9.086 | 628 | 17.44 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 173<br>3.1<br>185<br>185 | 85<br>5.0<br>253<br>253 |
| 10.000 | 746 | 9.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 96<br>4.2<br>346<br>346 | | | |
| 10.000 | 797 | 9.14 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 194<br>3.5<br>168<br>168 | 95<br>5.3<br>230<br>230 |
| 11.200 | 775 | 7.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | 108<br>4.1<br>309<br>308 | | | |
| 11.200 | 866 | 7.50 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 218<br>3.4<br>150<br>150 | 107<br>5.1<br>205<br>205 |
| 12.594 | 799 | 10.71 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 240<br>2.9<br>133<br>133 | 119<br>4.3<br>183<br>183 |
| 14.286 | 832 | 4.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 152<br>5.2<br>115<br>114 | | 139<br>3.8<br>242<br>242 | | | |
| 14.286 | 973 | 4.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 279<br>3.2<br>118<br>118 | 137<br>4.8<br>161<br>161 |
| 14.286 | 1036 | 4.84 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | | |
| 15.500 | 931 | 7.79 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 161<br>4.9<br>106<br>105 | | 148<br>3.3<br>223<br>223 | | 295<br>2.7<br>108<br>108 | 146<br>4.1<br>148<br>148 |
| 17.360 | 1012 | 6.42 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 180<br>4.7<br>94<br>94 | | 166<br>3.1<br>199<br>199 | 80<br>5.8<br>236<br>207 | 331<br>2.6<br>97<br>97 | 164<br>4.0<br>133<br>132 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC42 | GSS07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 100 | 49 | 194 | 85 | 193 | 63 | 332 | 131 | 90 | $M_2$ | | | |
| 2.8 | 5.1 | 2.4 | 4.1 | 1.5 | 4.0 | 1.4 | 2.7 | 2.8 | c | | | |
| 594 | 701 | 290 | 399 | 599 | 708 | 292 | 425 | 710 | $n_{2\,Eck}$ | 21.36 | 539 | 5.862 |
| 531 | 531 | 290 | 399 | 418 | 418 | 292 | 343 | 343 | $n_{2\,th}$ | | | |
| 140 | 68 | 270 | 119 | 269 | 87 | 461 | 182 | 125 | $M_2$ | | | |
| 2.5 | 4.6 | 2.2 | 3.7 | 1.3 | 3.7 | 1.3 | 2.5 | 2.6 | c | | | |
| 428 | 506 | 209 | 288 | 432 | 511 | 211 | 307 | 512 | $n_{2\,Eck}$ | 12.75 | 685 | 8.125 |
| 383 | 383 | 209 | 288 | 301 | 301 | 210 | 248 | 248 | $n_{2\,th}$ | | | |
| 154 | 75 | 296 | 131 | 295 | 96 | 504 | 199 | 137 | $M_2$ | | | |
| 2.4 | 4.5 | 1.8 | 3.3 | 1.3 | 3.6 | 1.1 | 2.2 | 2.5 | c | | | |
| 383 | 452 | 187 | 258 | 386 | 457 | 188 | 274 | 458 | $n_{2\,Eck}$ | 17.44 | 628 | 9.086 |
| 342 | 342 | 187 | 258 | 269 | 269 | 188 | 222 | 222 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | 9.14 | 746 | 10.000 |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 173 | 85 | 333 | 147 | 332 | 108 | 568 | 225 | 155 | $M_2$ | | | |
| 2.4 | 4.4 | 2.1 | 3.5 | 1.3 | 3.5 | 1.2 | 2.3 | 2.5 | c | | | |
| 348 | 411 | 170 | 234 | 351 | 415 | 171 | 249 | 416 | $n_{2\,Eck}$ | 9.14 | 797 | 10.000 |
| 311 | 311 | 170 | 234 | 245 | 245 | 171 | 201 | 201 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | 7.50 | 775 | 11.200 |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 194 | 95 | 373 | 165 | 372 | 121 | 637 | 252 | 174 | $M_2$ | | | |
| 2.3 | 4.2 | 2.0 | 3.4 | 1.2 | 3.4 | 1.2 | 2.3 | 2.4 | c | | | |
| 311 | 367 | 152 | 209 | 313 | 371 | 153 | 222 | 371 | $n_{2\,Eck}$ | 7.50 | 866 | 11.200 |
| 278 | 278 | 152 | 209 | 219 | 219 | 153 | 180 | 180 | $n_{2\,th}$ | | | |
| 214 | 105 | 410 | 182 | 410 | 134 | | 278 | 191 | $M_2$ | | | |
| 2.1 | 3.9 | 1.7 | 2.9 | 1.1 | 3.1 | | 1.9 | 2.2 | c | | | |
| 276 | 326 | 135 | 186 | 279 | 330 | | 198 | 330 | $n_{2\,Eck}$ | 10.71 | 799 | 12.594 |
| 247 | 247 | 135 | 186 | 194 | 194 | | 160 | 160 | $n_{2\,th}$ | | | |
| | | | | | | | | | $M_2$ | | | |
| | | | | | | | | | c | | | |
| | | | | | | | | | $n_{2\,Eck}$ | 4.84 | 832 | 14.286 |
| | | | | | | | | | $n_{2\,th}$ | | | |
| 248 | 122 | | | | | | | | $M_2$ | | | |
| 2.2 | 4.0 | | | | | | | | c | | | |
| 244 | 288 | | | | | | | | $n_{2\,Eck}$ | 4.84 | 973 | 14.286 |
| 218 | 218 | | | | | | | | $n_{2\,th}$ | | | |
| | | 477 | 211 | 476 | 155 | | | | $M_2$ | | | |
| | | 1.9 | 3.2 | 1.1 | 3.1 | | | | c | | | |
| | | 119 | 164 | 246 | 291 | | | | $n_{2\,Eck}$ | 4.84 | 1036 | 14.286 |
| | | 119 | 164 | 171 | 171 | | | | $n_{2\,th}$ | | | |
| 264 | 130 | 505 | 224 | | 165 | | 342 | 236 | $M_2$ | | | |
| 1.9 | 3.5 | 1.6 | 2.7 | | 2.8 | | 1.8 | 2.0 | c | | | |
| 225 | 265 | 110 | 151 | | 268 | | 161 | 268 | $n_{2\,Eck}$ | 7.79 | 931 | 15.500 |
| 201 | 201 | 110 | 151 | | 158 | | 130 | 130 | $n_{2\,th}$ | | | |
| 296 | 145 | 565 | 251 | | 185 | | 383 | 265 | $M_2$ | | | |
| 1.8 | 3.3 | 1.6 | 2.6 | | 2.6 | | 1.7 | 1.9 | c | | | |
| 201 | 237 | 98 | 135 | | 239 | | 143 | 240 | $n_{2\,Eck}$ | 6.42 | 1012 | 17.360 |
| 179 | 179 | 98 | 135 | | 141 | | 116 | 116 | $n_{2\,th}$ | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

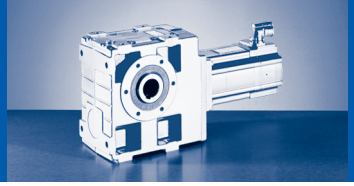
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 20.517 | 764 | 13.58 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 370<br>1.8<br>82<br>82 | 183<br>2.9<br>112<br>112 |
| 22.143 | 836 | 4.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 121<br>5.0<br>154<br>154 | | | | | | | |
| 22.143 | 1211 | 4.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 230<br>4.4<br>74<br>74 | | 212<br>2.9<br>156<br>156 | 103<br>5.4<br>185<br>162 | 421<br>2.5<br>76<br>76 | 210<br>3.7<br>104<br>104 |
| 25.188 | 913 | 9.59 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | | | | | 458<br>1.7<br>67<br>67 | 228<br>2.6<br>91<br>91 |
| 27.125 | 1250 | 3.13 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 282<br>4.2<br>60<br>60 | | 260<br>2.8<br>127<br>127 | 126<br>5.1<br>151<br>132 | 516<br>2.4<br>62<br>62 | 257<br>3.5<br>85<br>85 |
| 31.000 | 1065 | 7.05 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 309<br>2.9<br>53<br>53 | 169<br>4.7<br>65<br>65 | 282<br>2.0<br>112<br>111 | 138<br>3.7<br>132<br>116 | 562<br>1.6<br>54<br>54 | 280<br>2.5<br>74<br>74 |
| 35.306 | 1052 | 1.96 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 193<br>4.5<br>97<br>97 | | | | | | | |
| 35.306 | 1250 | 1.96 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 369<br>3.3<br>46<br>46 | 201<br>5.9<br>57<br>57 | 338<br>2.6<br>98<br>98 | 165<br>4.8<br>116<br>102 | 673<br>1.8<br>48<br>48 | 334<br>3.3<br>65<br>65 |
| 39.200 | 1175 | 5.37 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 388<br>2.7<br>42<br>42 | 213<br>4.3<br>51<br>51 | 355<br>1.8<br>88<br>88 | 174<br>3.3<br>105<br>92 | 704<br>1.5<br>43<br>43 | 352<br>2.3<br>59<br>59 |
| 43.271 | 1090 | 1.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 237<br>4.2<br>79<br>79 | | | | | | | |
| 43.271 | 1250 | 1.43 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 454<br>2.7<br>38<br>38 | 248<br>4.8<br>46<br>46 | 414<br>2.5<br>80<br>80 | 202<br>4.5<br>95<br>83 | 824<br>1.5<br>39<br>39 | 410<br>3.0<br>53<br>53 |
| 50.000 | 1250 | 3.53 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | 260<br>2.9<br>68<br>68 | 163<br>4.2<br>81<br>81 | 495<br>2.4<br>33<br>33 | 271<br>4.0<br>40<br>40 | 452<br>1.7<br>69<br>69 | 223<br>3.1<br>82<br>72 | 897<br>1.3<br>34<br>34 | 449<br>2.1<br>46<br>46 |
| 54.250 | 1250 | 2.89 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | | | | 541<br>2.3<br>30<br>30 | 297<br>3.9<br>37<br>37 | 495<br>1.7<br>64<br>64 | 244<br>3.1<br>76<br>66 | 981<br>1.3<br>31<br>31 | 491<br>2.1<br>42<br>42 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC42 | GSS07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| 327<br>1.4<br>170<br>152 | 161<br>2.6<br>200<br>152 | 629<br>1.1<br>83<br>83 | 280<br>1.9<br>114<br>114 | | 205<br>2.1<br>202<br>119 | | 425<br>1.3<br>121<br>98 | 292<br>1.5<br>203<br>98 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 13.58 | 764 | 20.517 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.18 | 836 | 22.143 |
| 378<br>1.7<br>157<br>141 | 186<br>3.1<br>186<br>141 | 720<br>1.5<br>77<br>77 | 321<br>2.5<br>106<br>106 | | 237<br>2.4<br>187<br>111 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 4.18 | 1211 | 22.143 |
| 406<br>1.2<br>138<br>124 | 201<br>2.3<br>163<br>124 | 779<br>1.0<br>68<br>67 | 347<br>1.7<br>93<br>93 | | 255<br>1.9<br>165<br>97 | | 527<br>1.1<br>99<br>80 | 363<br>1.3<br>165<br>80 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 9.59 | 913 | 25.188 |
| 463<br>1.6<br>128<br>115 | 228<br>2.9<br>152<br>115 | 880<br>1.4<br>63<br>63 | 393<br>2.3<br>86<br>86 | | 290<br>2.3<br>153<br>90 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.13 | 1250 | 27.125 |
| 501<br>1.1<br>112<br>100 | 248<br>2.1<br>133<br>100 | | 427<br>1.6<br>76<br>75 | | 314<br>1.7<br>134<br>79 | | 649<br>1.1<br>80<br>65 | 448<br>1.2<br>134<br>65 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 7.05 | 1065 | 31.000 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.96 | 1052 | 35.306 |
| 602<br>1.5<br>99<br>88 | 297<br>2.7<br>116<br>88 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.96 | 1250 | 35.306 |
| 630<br>1.0<br>89<br>79 | 312<br>1.9<br>105<br>79 | | 536<br>1.5<br>60<br>60 | | 396<br>1.5<br>106<br>62 | | 814<br>1.0<br>64<br>51 | 563<br>1.1<br>106<br>51 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 5.37 | 1175 | 39.200 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.43 | 1090 | 43.271 |
| 737<br>1.4<br>80<br>72 | 364<br>2.6<br>95<br>72 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.43 | 1250 | 43.271 |
| | 398<br>1.8<br>82<br>62 | | 683<br>1.4<br>47<br>47 | | 505<br>1.4<br>83<br>49 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 3.53 | 1250 | 50.000 |
| | 435<br>1.8<br>76<br>57 | | 747<br>1.4<br>43<br>43 | | 552<br>1.4<br>77<br>45 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.89 | 1250 | 54.250 |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

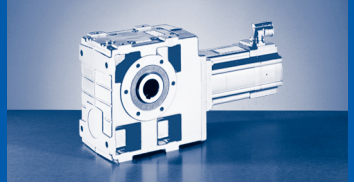
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-2A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 | 17NC17 | 17NC23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 | 21.50 | 10.80 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 | 1680 | 2300 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 | 8.5 | 5.5 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 | 3.80 | 2.60 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 | 36.04 | 36.04 |
| 61.250 | 1250 | 2.70 | $M_2$ | | | | 606 | 333 | 554 | 273 | 1097 | 549 |
| | | | c | | | | 2.0 | 3.6 | 1.6 | 2.9 | 1.1 | 2.0 |
| | | | $n_{2\,Eck}$ | | | | 27 | 33 | 56 | 67 | 27 | 38 |
| | | | $n_{2\,th}$ | | | | 27 | 33 | 56 | 59 | 27 | 38 |
| 70.611 | 1250 | 1.81 | $M_2$ | | 370 | 232 | 703 | 388 | 643 | 317 | | 638 |
| | | | c | | 2.7 | 3.9 | 1.8 | 3.1 | 1.6 | 2.9 | | 1.9 |
| | | | $n_{2\,Eck}$ | | 48 | 57 | 23 | 28 | 49 | 58 | | 33 |
| | | | $n_{2\,th}$ | | 48 | 57 | 23 | 28 | 49 | 51 | | 33 |
| 79.722 | 1250 | 1.70 | $M_2$ | | 414 | 260 | 787 | 435 | 719 | 354 | | 714 |
| | | | c | | 2.6 | 3.7 | 1.6 | 2.8 | 1.5 | 2.7 | | 1.7 |
| | | | $n_{2\,Eck}$ | | 43 | 51 | 21 | 25 | 43 | 51 | | 29 |
| | | | $n_{2\,th}$ | | 43 | 51 | 21 | 25 | 43 | 45 | | 29 |
| 86.542 | 1250 | 1.34 | $M_2$ | | 454 | 284 | 858 | 475 | 788 | 388 | | 781 |
| | | | c | | 2.5 | 3.7 | 1.5 | 2.6 | 1.5 | 2.7 | | 1.6 |
| | | | $n_{2\,Eck}$ | | 39 | 47 | 19 | 23 | 40 | 47 | | 27 |
| | | | $n_{2\,th}$ | | 39 | 47 | 19 | 23 | 40 | 41 | | 27 |
| 97.708 | 1250 | 1.26 | $M_2$ | | 508 | 318 | 961 | 533 | 881 | 434 | | 874 |
| | | | c | | 2.3 | 3.5 | 1.3 | 2.3 | 1.3 | 2.6 | | 1.4 |
| | | | $n_{2\,Eck}$ | | 35 | 42 | 17 | 21 | 35 | 42 | | 24 |
| | | | $n_{2\,th}$ | | 35 | 41 | 17 | 20 | 35 | 37 | | 24 |
| 113.667 | 1250 | 0.83 | $M_2$ | | 596 | 373 | 1119 | 622 | 1032 | 509 | | |
| | | | c | | 2.1 | 3.2 | 1.1 | 2.0 | 1.2 | 2.4 | | |
| | | | $n_{2\,Eck}$ | | 30 | 36 | 14 | 18 | 30 | 36 | | |
| | | | $n_{2\,th}$ | | 30 | 36 | 14 | 18 | 30 | 32 | | |
| 128.333 | 1250 | 0.79 | $M_2$ | 202 | 667 | 418 | | 697 | 1154 | 570 | | |
| | | | c | 5.8 | 1.9 | 2.9 | | 1.8 | 1.1 | 2.2 | | |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | | 16 | 27 | 32 | | |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | | 16 | 27 | 28 | | |
| 137.950 | 1250 | 0.61 | $M_2$ | 219 | 722 | 453 | | 752 | 1247 | 616 | | |
| | | | c | 5.4 | 1.7 | 2.7 | | 1.7 | 1.0 | 2.0 | | |
| | | | $n_{2\,Eck}$ | 29 | 25 | 29 | | 15 | 25 | 30 | | |
| | | | $n_{2\,th}$ | 29 | 25 | 29 | | 15 | 25 | 26 | | |
| 155.750 | 1250 | 0.58 | $M_2$ | 247 | 808 | 508 | | 841 | | 691 | | |
| | | | c | 4.8 | 1.5 | 2.4 | | 1.5 | | 1.8 | | |
| | | | $n_{2\,Eck}$ | 25 | 22 | 26 | | 13 | | 26 | | |
| | | | $n_{2\,th}$ | 25 | 22 | 26 | | 13 | | 23 | | |
| 174.375 | 1250 | 0.39 | $M_2$ | 278 | 908 | 571 | | | | | | |
| | | | c | 4.3 | 1.4 | 2.2 | | | | | | |
| | | | $n_{2\,Eck}$ | 23 | 20 | 23 | | | | | | |
| | | | $n_{2\,th}$ | 23 | 20 | 23 | | | | | | |
| 196.875 | 1250 | 0.37 | $M_2$ | 313 | 1017 | 640 | | | | | | |
| | | | c | 3.8 | 1.2 | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 20 | 17 | 21 | | | | | | |
| | | | $n_{2\,th}$ | 20 | 17 | 21 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]



## $M_{2\,GN} \leq 1250$ Nm

| 17NC35 | 17NC41 | 19SC17 | 19SC23 | 19SC35 | 19SC42 | 21XC17 | 21XC25 | 21XC42 | GSS07-2A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...S00 | | | | |
| 19.00 | 9.50 | 36.30 | 16.30 | 36.00 | 12.00 | 61.40 | 24.60 | 17.00 | $M_1$ | $J_G$ | $M_{2\,GN}$ | i |
| 3480 | 4110 | 1700 | 2340 | 3510 | 4150 | 1710 | 2490 | 4160 | $n_1$ | | | |
| 15.8 | 10.2 | 13.9 | 8.2 | 28.7 | 14.0 | 22.5 | 13.5 | 19.8 | $I_{M\,400}$ | | | |
| 6.90 | 4.10 | 6.40 | 4.00 | 13.20 | 5.20 | 11.00 | 6.40 | 7.40 | $P_N$ | | | |
| 36.04 | 36.04 | 72.12 | 72.12 | 72.04 | 72.12 | 180.04 | 180.04 | 180.04 | $J_M$ | | | |
| | 487<br>1.7<br>67<br>51 | | 835<br>1.3<br>38<br>38 | | 617<br>1.3<br>68<br>40 | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 2.70 | 1250 | 61.250 |
| | 565<br>1.6<br>58<br>44 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.81 | 1250 | 70.611 |
| | 632<br>1.6<br>52<br>39 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.70 | 1250 | 79.722 |
| | 692<br>1.6<br>48<br>36 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.34 | 1250 | 86.542 |
| | 774<br>1.5<br>42<br>32 | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1.26 | 1250 | 97.708 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.83 | 1250 | 113.667 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.79 | 1250 | 128.333 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.61 | 1250 | 137.950 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.58 | 1250 | 155.750 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.39 | 1250 | 174.375 |
| | | | | | | | | | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 0.37 | 1250 | 196.875 |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

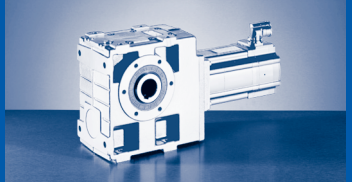
P ... [kW]
I ... [A]
i [-]
c [-]

## $M_{2\,GN} \leq 1250$ Nm

| GSS07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 126.531 | 1250 | 0.86 | $M_2$ | 196 | 632 | 402 | 1186 | 660 | 1095 | 545 |
| | | | c | 3.8 | 2.0 | 1.9 | 1.1 | 1.9 | 1.1 | 1.4 |
| | | | $n_{2\,Eck}$ | 31 | 27 | 32 | 13 | 16 | 27 | 32 |
| | | | $n_{2\,th}$ | 31 | 27 | 32 | 13 | 16 | 27 | 28 |
| 142.857 | 1250 | 0.82 | $M_2$ | 220 | 708 | 449 | | 738 | 1225 | 610 |
| | | | c | 3.7 | 1.8 | 1.8 | | 1.7 | 1.0 | 1.4 |
| | | | $n_{2\,Eck}$ | 28 | 24 | 28 | | 14 | 24 | 29 |
| | | | $n_{2\,th}$ | 28 | 24 | 28 | | 14 | 24 | 25 |
| 155.000 | 1250 | 0.74 | $M_2$ | 239 | 772 | 489 | | 805 | | 664 |
| | | | c | 3.7 | 1.6 | 1.8 | | 1.5 | | 1.4 |
| | | | $n_{2\,Eck}$ | 26 | 22 | 26 | | 13 | | 27 |
| | | | $n_{2\,th}$ | 25 | 22 | 26 | | 13 | | 23 |
| 175.000 | 1250 | 0.72 | $M_2$ | 268 | 866 | 548 | | 898 | | 743 |
| | | | c | 3.5 | 1.4 | 1.7 | | 1.4 | | 1.3 |
| | | | $n_{2\,Eck}$ | 23 | 20 | 23 | | 11 | | 23 |
| | | | $n_{2\,th}$ | 23 | 19 | 23 | | 11 | | 21 |
| 201.746 | 1250 | 0.37 | $M_2$ | 310 | 999 | 632 | | | | |
| | | | c | 3.2 | 1.3 | 1.6 | | | | |
| | | | $n_{2\,Eck}$ | 20 | 17 | 20 | | | | |
| | | | $n_{2\,th}$ | 20 | 17 | 20 | | | | |
| 227.778 | 1250 | 0.36 | $M_2$ | 347 | 1119 | 707 | | | | |
| | | | c | 3.0 | 1.1 | 1.5 | | | | |
| | | | $n_{2\,Eck}$ | 17 | 15 | 18 | | | | |
| | | | $n_{2\,th}$ | 17 | 15 | 18 | | | | |
| 247.139 | 1250 | 0.33 | $M_2$ | 378 | 1218 | 770 | | | | |
| | | | c | 2.8 | 1.0 | 1.4 | | | | |
| | | | $n_{2\,Eck}$ | 16 | 14 | 16 | | | | |
| | | | $n_{2\,th}$ | 16 | 14 | 16 | | | | |
| 279.028 | 1250 | 0.32 | $M_2$ | 422 | | 859 | | | | |
| | | | c | 2.7 | | 1.3 | | | | |
| | | | $n_{2\,Eck}$ | 14 | | 15 | | | | |
| | | | $n_{2\,th}$ | 14 | | 15 | | | | |
| 321.673 | 1250 | 0.28 | $M_2$ | 493 | | | | | | |
| | | | c | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 12 | | | | | | |
| | | | $n_{2\,th}$ | 12 | | | | | | |
| 363.179 | 1250 | 0.28 | $M_2$ | 547 | | | | | | |
| | | | c | 1.9 | | | | | | |
| | | | $n_{2\,Eck}$ | 11 | | | | | | |
| | | | $n_{2\,th}$ | 11 | | | | | | |
| 394.245 | 1250 | 0.26 | $M_2$ | 601 | | | | | | |
| | | | c | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 10 | | | | | | |
| | | | $n_{2\,th}$ | 10 | | | | | | |
| 445.116 | 1250 | 0.26 | $M_2$ | 665 | | | | | | |
| | | | c | 1.7 | | | | | | |
| | | | $n_{2\,Eck}$ | 9 | | | | | | |
| | | | $n_{2\,th}$ | 9 | | | | | | |
| 490.403 | 1250 | 0.18 | $M_2$ | 735 | | | | | | |
| | | | c | 1.5 | | | | | | |
| | | | $n_{2\,Eck}$ | 8 | | | | | | |
| | | | $n_{2\,th}$ | 8 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm²]

P ... [kW]
I ... [A]
i [-]
c [-]

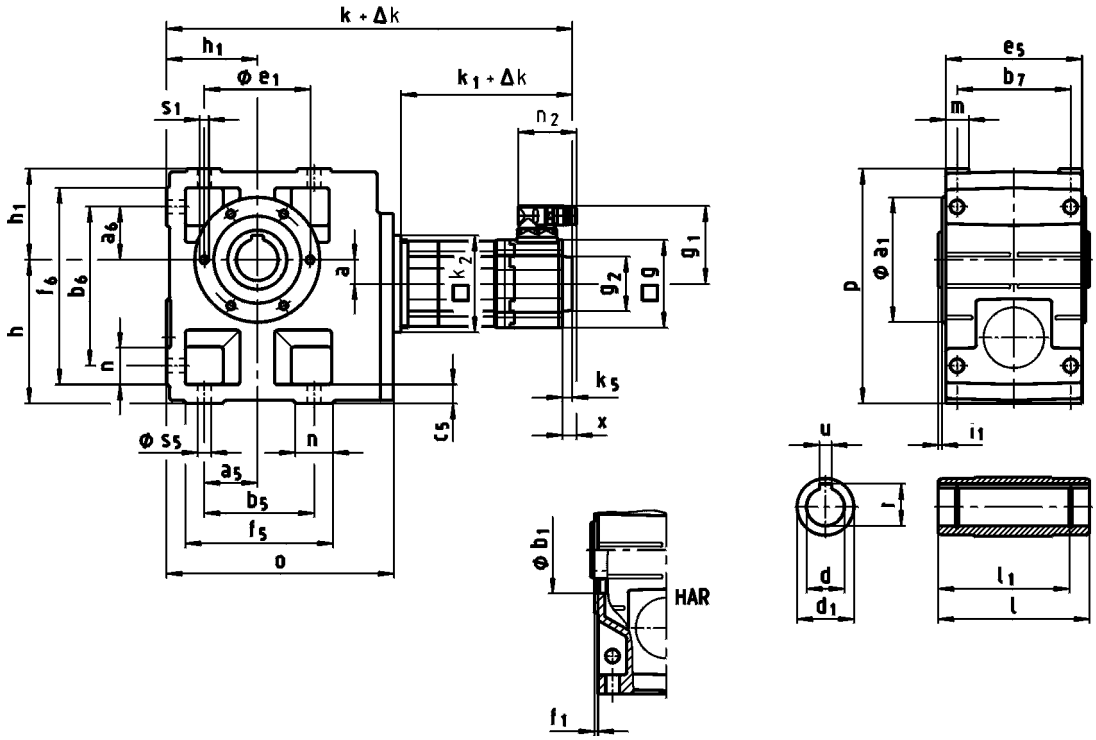


## $M_{2\,GN} \leq 1250$ Nm

| GSS07-3A | | | | 10IC40 | 13IC34 | 13IC41 | 14LC16 | 14LC20 | 14LC35 | 14LC41 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 | ...F10 | ...S00 |
| i | $M_{2\,GN}$ | $J_G$ | $M_1$ | 2.00 | 6.30 | 4.00 | 12.00 | 6.70 | 10.80 | 5.40 |
| | | | $n_1$ | 3950 | 3410 | 4050 | 1635 | 2000 | 3455 | 4100 |
| | | | $I_{M\,400}$ | 2.4 | 6.0 | 4.4 | 4.8 | 3.3 | 9.1 | 5.8 |
| | | | $P_N$ | 0.80 | 2.20 | 1.70 | 2.10 | 1.40 | 3.90 | 2.30 |
| | | | $J_M$ | 2.44 | 8.34 | 8.34 | 19.32 | 19.24 | 19.24 | 19.24 |
| 553.681 | 1250 | 0.18 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 818<br>1.4<br>7<br>7 | | | | | | |
| 634.639 | 1250 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 943<br>1.3<br>6<br>6 | | | | | | |
| 716.528 | 1250 | 0.11 | $M_2$<br>c<br>$n_{2\,Eck}$<br>$n_{2\,th}$ | 1048<br>1.1<br>6<br>6 | | | | | | |

M ... [Nm]
n ... [r/min]
J ... [kgcm$^2$]

P ... [kW]
I ... [A]
i [-]
c [-]

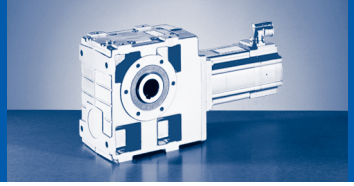



## GSS□□-2S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 325 | 355 | 385 | 378 | 398 | 418 | 458 | | | | | | | |
| GSS05... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | 416 | | 456 | | | 496 | |
| GSS06... | k | 387 | 417 | 447 | 439 | 459 | 479 | 519 | 456 | | 496 | | | 536 | |
| GSS07... | k | | | | 482 | 502 | 522 | 562 | 499 | | 539 | | | 579 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS05: 12DC20 ... 12LC41



## GSS□□-2S H□R ... RSO

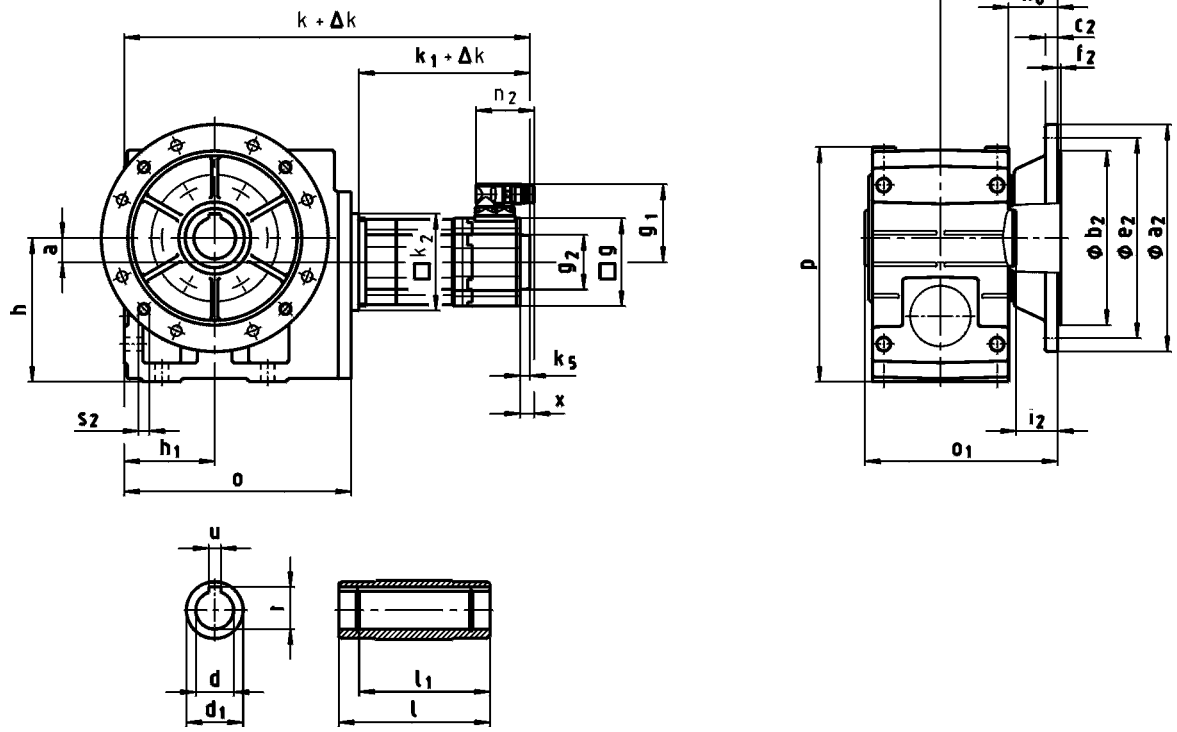
| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 472 | | 512 | | 552 | | 592 | | | | | | | |
| GSS07... | k | 515 | | 555 | | 595 | | 635 | | 554 | | 594 | | 654 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GSS□□-2S H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 171 | 100 | 71 | 20 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 20 | 22 | 9 |
| **GSS05...** | 212 | 205 | 125 | 80 | 23 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 255 | 250 | 150 | 100 | 26 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 305 | 310 | 190 | 120 | 33 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GSS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GSS05...** | | 140 | 50 | 124 | | | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |

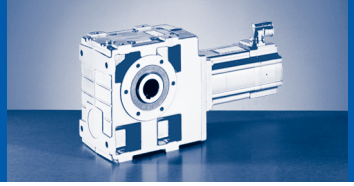



## GSS□□-2S HAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 325 | 355 | 385 | 378 | 398 | 418 | 458 | | | | | | | |
| GSS05... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | 416 | | 456 | | | 496 | |
| GSS06... | k | 387 | 417 | 447 | 439 | 459 | 479 | 519 | 456 | | 496 | | | 536 | |
| GSS07... | k | | | | 482 | 502 | 522 | 562 | 499 | | 539 | | | 579 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS05: 12DC20 ... 12LC41



## GSS□□-2S HAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 472 | | 512 | | 552 | | 592 | | | | | | | |
| GSS07... | k | 515 | | 555 | | 595 | | 635 | | 554 | | 594 | | 654 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

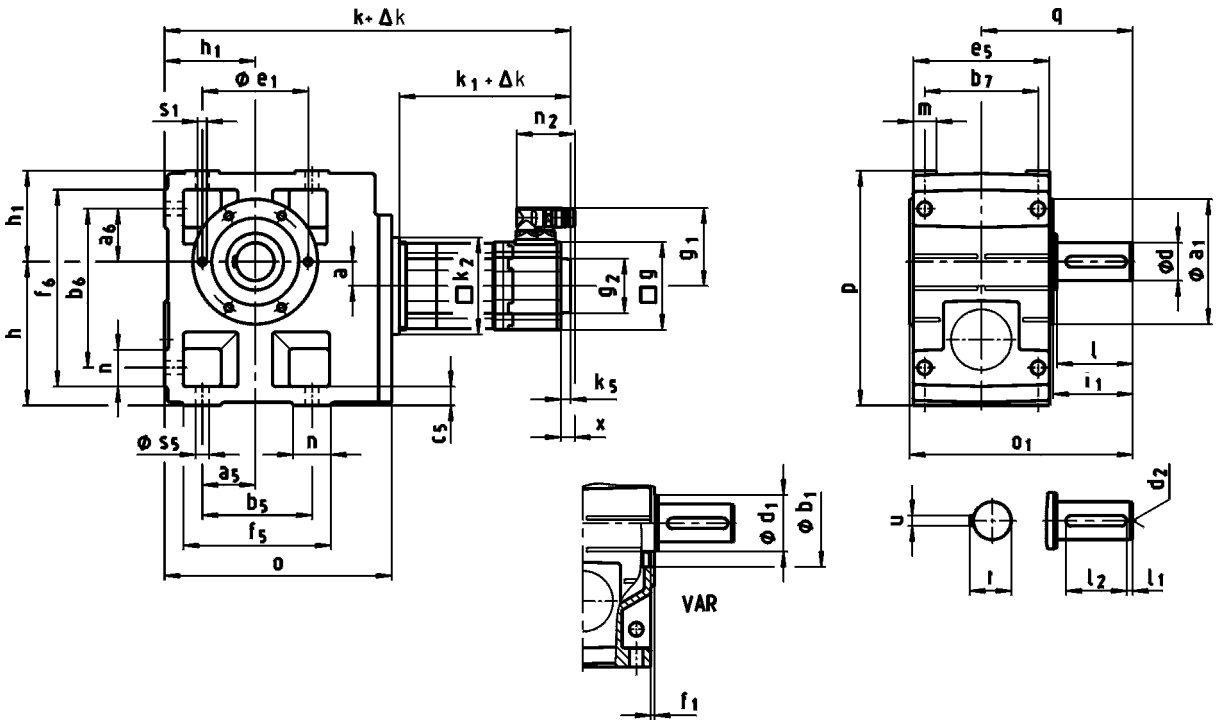
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GSS□□-2S HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 149 | 171 | 100 | 71 | 20 | 91 | 41 |
| **GSS05...** | 212 | 174 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GSS06...** | 255 | 203 [2]<br>202 [3] | 250 | 150 | 100 | 26 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GSS07...** | 305 | 256 | 310 | 190 | 120 | 33 | 155.5 | 66 |

[2] $a_2$ = 200
[3] $a_2$ = 250

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GSS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GSS05...** | | 140 | 50 | 124 | | | 200 | 130 | 12 | 165 | | | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |

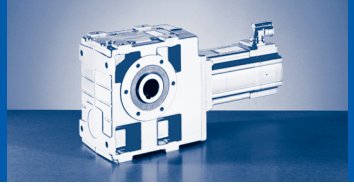



## GSS□□-2S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 325 | 355 | 385 | 378 | 398 | 418 | 458 | | | | | | | |
| GSS05... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | 416 | | 456 | | | 496 | |
| GSS06... | k | 387 | 417 | 447 | 439 | 459 | 479 | 519 | 456 | | 496 | | | 536 | |
| GSS07... | k | | | | 482 | 502 | 522 | 562 | 499 | | 539 | | | 579 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS05: 12DC20 ... 12LC41



## GSS□□-2S V□R ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 472 | | 512 | | 552 | | 592 | | | | | | | |
| GSS07... | k | 515 | | 555 | | 595 | | 635 | | 554 | | 594 | | 654 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

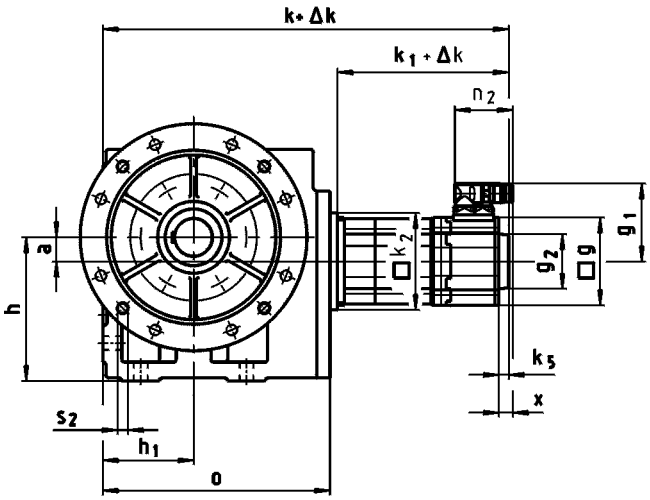
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

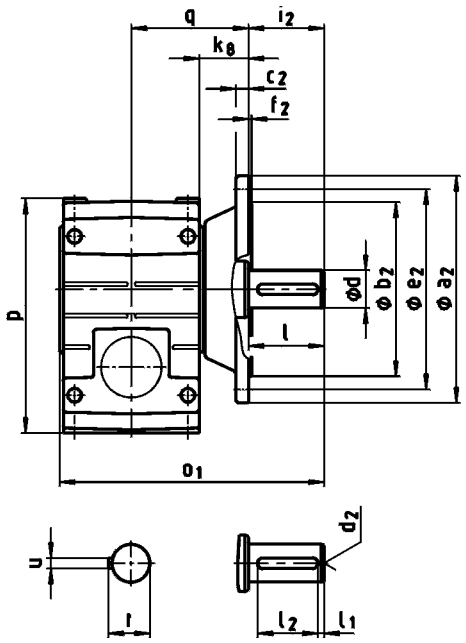
## GSS□□-2S V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 163 | 171 | 100 | 71 | 20 | 107.5 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 20 | 22 | 9 |
| **GSS05...** | 212 | 197 | 205 | 125 | 80 | 23 | 130 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 255 | 236 | 250 | 150 | 100 | 26 | 160 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 305 | 296 | 310 | 190 | 120 | 33 | 200 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GSS04...** | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 |
| **GSS05...** | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GSS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GSS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |

d ≤ 50 mm: k6; d > 50 mm: m6



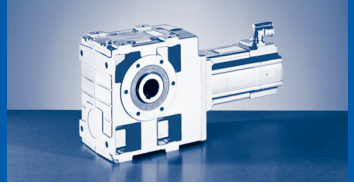




## GSS□□-2S VAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 325 | 355 | 385 | 378 | 398 | 418 | 458 | | | | | | | |
| GSS05... | k | 347 | 377 | 407 | 399 | 419 | 439 | 479 | 416 | | 456 | | | 496 | |
| GSS06... | k | 387 | 417 | 447 | 439 | 459 | 479 | 519 | 456 | | 496 | | | 536 | |
| GSS07... | k | | | | 482 | 502 | 522 | 562 | 499 | | 539 | | | 579 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS05: 12DC20 ... 12LC41



## GSS□□-2S VAK ... RSO

| | | 14D C15 | 14D C36 | 14H C15 | 14H C32 | 14L C15 | 14L C32 | 14P C14 | 14P C32 | 19F C14 | 19F C30 | 19J C14 | 19J C30 | 19P C14 | 19P C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 472 | | 512 | | 552 | | 592 | | | | | | | |
| GSS07... | k | 515 | | 555 | | 595 | | 635 | | 554 | | 594 | | 654 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 28 | | | | | | | | 34 | | 44 | | | |
| | $k_1$ | 201 | | 241 | | 281 | | 321 | | 220 | | 260 | | 320 | |
| | $k_2$ | 145 | | | | | | | | 195 | | | | | |
| | g | 143 | | | | | | | | 192 | | | | | |
| ...RSO | $k_5$ | 24 | | | | | | | | 15 | | | | | |
| | $g_2$ | Ø 78 | | | | | | | | | | | | | |
| | $g_1$ | 116 | | | | 147 | | 116 | 147 | 141 | 172 | 141 | 172 | 141 | 172 |
| | $n_2$ | 78 | | | | 94 | | 78 | 94 | 78 | 94 | 78 | 94 | 78 | 94 |
| | x | 16 | | | | 38 | | 16 | 38 | 16 | 36 | 16 | 36 | 16 | 36 |

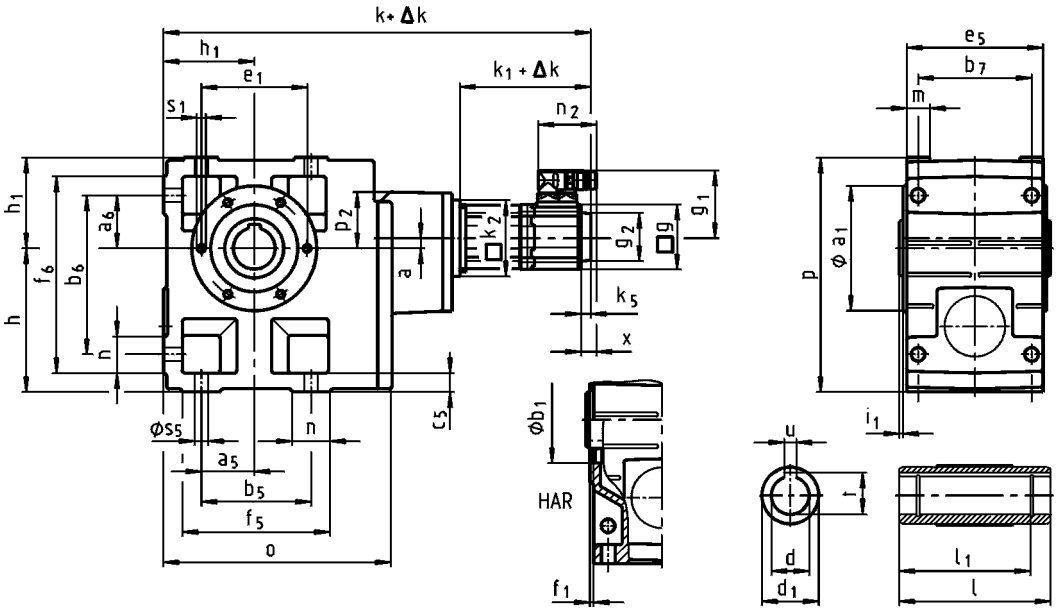
[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

## GSS□□-2S VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| GSS04... | 181 | 196 | 171 | 100 | 71 | 20 | 91 | 41 |
| GSS05... | 212 | 230 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| GSS06... | 255 | 277 | 250 | 150 | 100 | 26 | 121.5 | 49 |
| GSS07... | 305 | 351 | 310 | 190 | 120 | 33 | 155.5 | 66 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| GSS04... | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| GSS05... | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| GSS06... | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| GSS07... | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |

d ≤ 50 mm: k6; d > 50 mm: m6

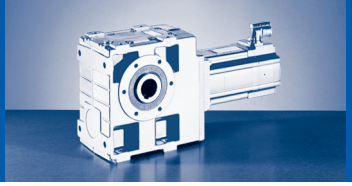



## GSS□□-3S H□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 423 | 453 | 483 | 476 | 496 | 516 | 556 | | | | | | | |
| GSS06... | k | 480 | 510 | 540 | 533 | 553 | 573 | 613 | | | | | | | |
| GSS07... | k | 534 | 564 | 594 | 587 | 607 | 627 | 667 | 604 | | | 644 | | 684 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | | 228 | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

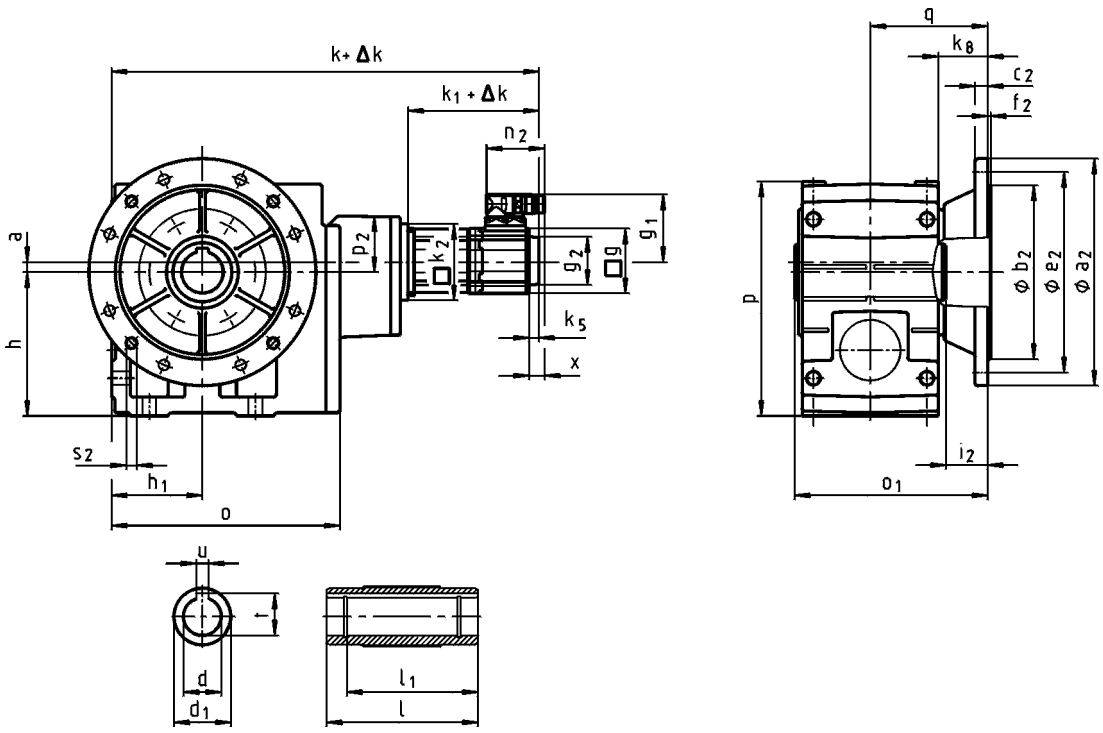
[2] GSS07: 12DC20 ... 12LC41



## GSS□□-3S H□R

| | o | p | $p_2$ | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS05...** | 209 | 205 | 65 | 125 | 80 | 13 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 252 | 250 | 63 | 150 | 100 | 10 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 299 | 310 | 73 | 190 | 120 | 12 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GSS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |

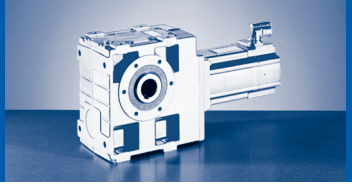



## GSS□□-3S HAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 423 | 453 | 483 | 476 | 496 | 516 | 556 | | | | | | | |
| GSS06... | k | 480 | 510 | 540 | 533 | 553 | 573 | 613 | | | | | | | |
| GSS07... | k | 534 | 564 | 594 | 587 | 607 | 627 | 667 | 604 | | | 644 | | 684 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | | 228 | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS07: 12DC20 ... 12LC41

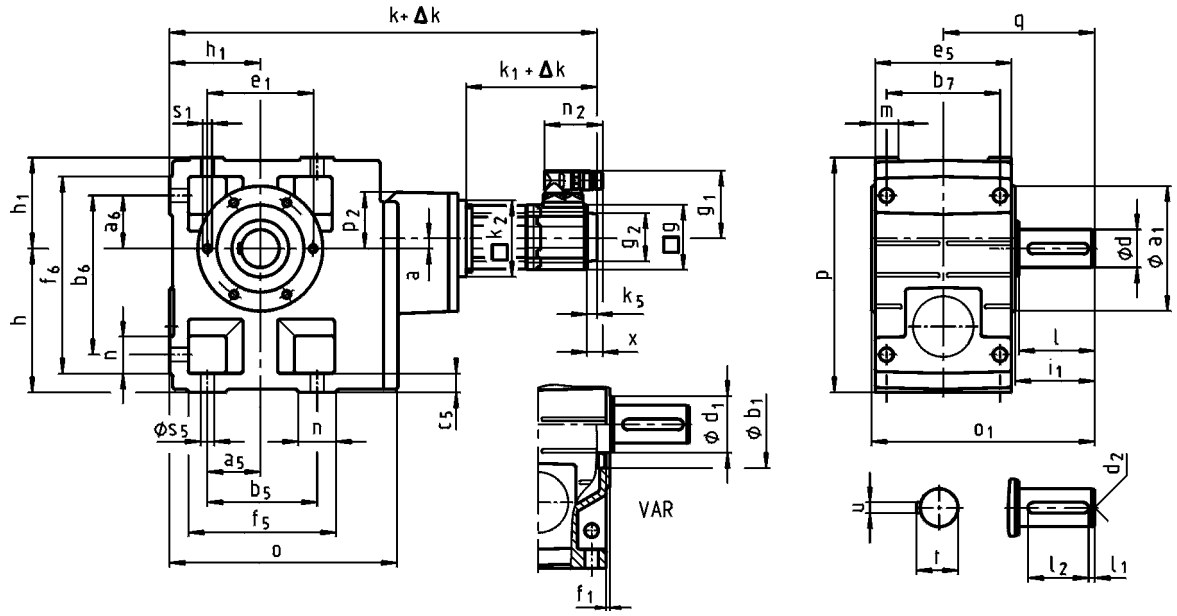


## GSS□□-3S HAK

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|
| **GSS05...** | 209 | 174 | 205 | 65 | 125 | 80 | 13 | 103.5 | 40 |
| **GSS06...** | 252 | 203 [1]<br>202 [2] | 250 | 63 | 150 | 100 | 10 | 122.5 [1]<br>121.5 [2] | 50 [1]<br>49 [2] |
| **GSS07...** | 299 | 256 | 310 | 73 | 190 | 120 | 12 | 155.5 | 66 |

[1] $a_2$ = 200
[2] $a_2$ = 250

| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GSS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |

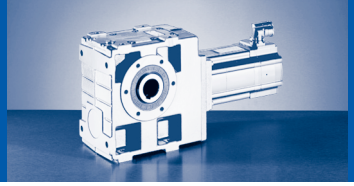



## GSS□□-3S V□R ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 423 | 453 | 483 | 476 | 496 | 516 | 556 | | | | | | | |
| GSS06... | k | 480 | 510 | 540 | 533 | 553 | 573 | 613 | | | | | | | |
| GSS07... | k | 534 | 564 | 594 | 587 | 607 | 627 | 667 | 604 | | 644 | | | 684 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS07: 12DC20 ... 12LC41

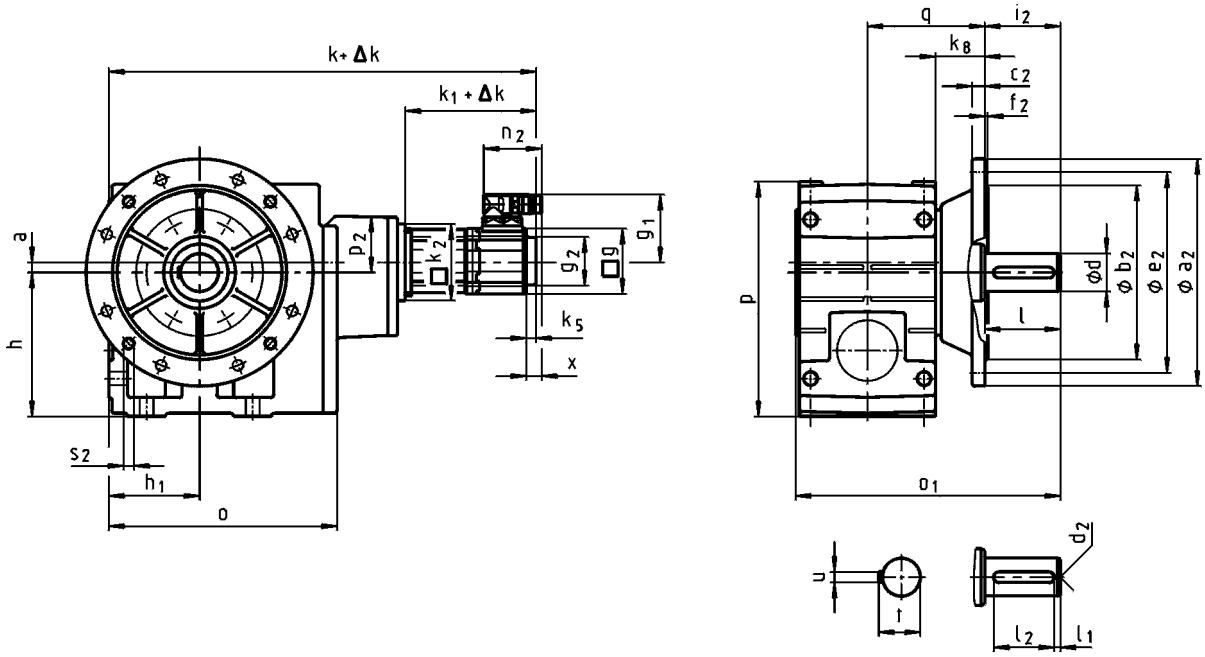


## GSS□□-3S V□R

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS05...** | 209 | 197 | 205 | 65 | 125 | 80 | 13 | 130 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 252 | 236 | 250 | 63 | 150 | 100 | 10 | 160 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 299 | 296 | 310 | 73 | 190 | 120 | 12 | 200 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GSS05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GSS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GSS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |

d ≤ 50 mm: k6; d > 50 mm: m6

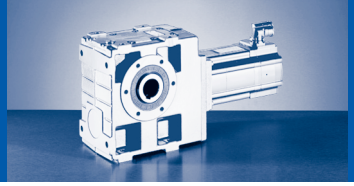



## GSS□□-3S VAK ... RSO

| | | 06C C41 | 06F C41 | 06I C41 | 09D C41 | 09F C38 | 09H C41 | 09L C41 | 12D C20 | 12D C41 | 12H C15 | 12H C30 | 12H C35 | 12L C20 | 12L C41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 423 | 453 | 483 | 476 | 496 | 516 | 556 | | | | | | | |
| GSS06... | k | 480 | 510 | 540 | 533 | 553 | 573 | 613 | | | | | | | |
| GSS07... | k | 534 | 564 | 594 | 587 | 607 | 627 | 667 | 604 | | 644 | | | 684 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 19 | | | 20 | | | | | | | | | | |
| | $k_1$ | 132 | 162 | 192 | 183 | 203 | 223 | 263 | 188 | | 228 | | | 268 | |
| | $k_2$ | 66 | | | 91 | | | | 118<br>145 [2] | | | | | | |
| | g | 62 | | | 89 | | | | 116 | | | | | | |
| ...RSO | $k_5$ | 0 | | | 13 | | | | 14 | | | | | | |
| | $g_2$ | □ 62 | | | Ø 67 | | | | Ø 72 | | | | | | |
| | $g_1$ | 76 | | | 90 | | | | 105 | | | | | | |
| | $n_2$ | 64 | | | 78 | | | | | | | | | | |
| | x | 21 | | | | | | | 18 | | | | | | |

[1] → 801 - SRS / SRM / ECN/ EQN / EQI / C20

[2] GSS07: 12DC20 ... 12LC41

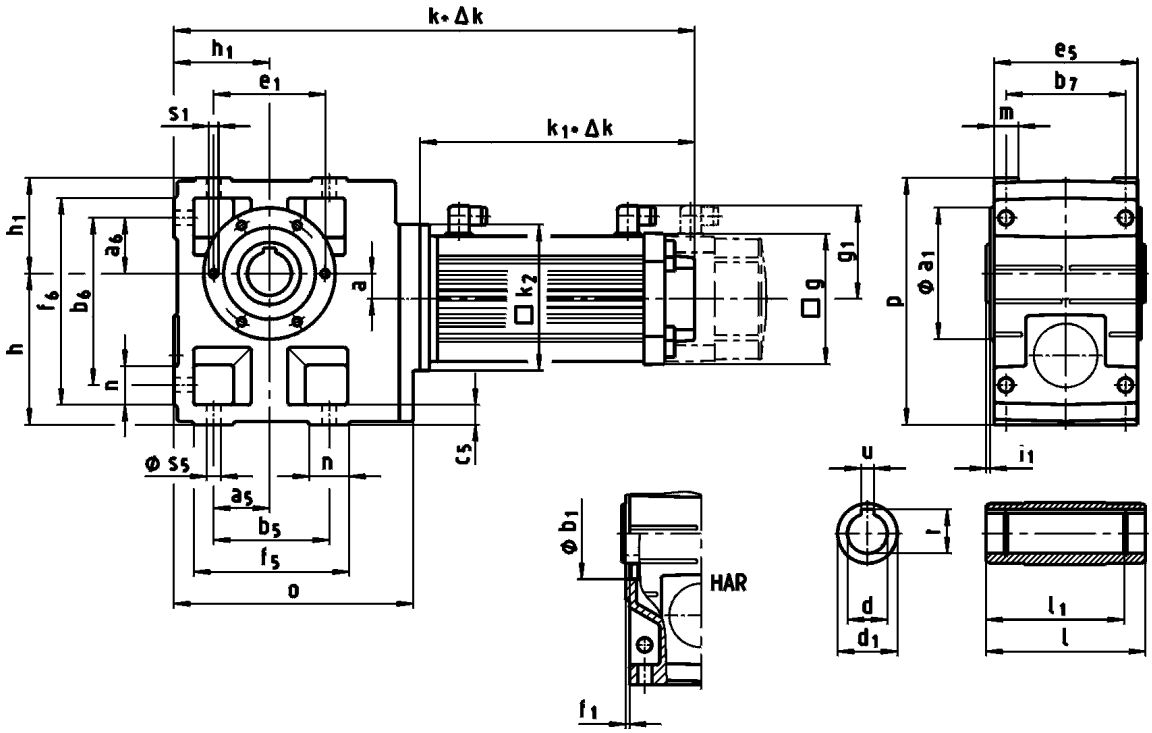


## GSS□□-3S VAK

| | o | $o_1$ | p | $p_2$ | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| **GSS05...** | 209 | 230 | 205 | 65 | 125 | 80 | 13 | 103.5 | 40 |
| **GSS06...** | 252 | 277 | 250 | 63 | 150 | 100 | 10 | 121.5 | 49 |
| **GSS07...** | 299 | 351 | 310 | 73 | 190 | 120 | 12 | 155.5 | 66 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GSS05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| **GSS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GSS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |

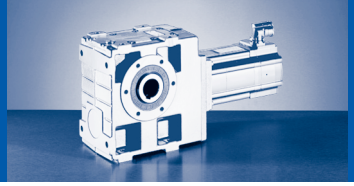
d ≤ 50 mm: k6; d > 50 mm: m6




## GSS□□-2A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 453 | 462 | 530 | | | | | | |
| GSS05... | k | 475 | 483 | 551 | 533 | | 595 | | | |
| GSS06... | k | 515 | 523 | 591 | 573 | | 635 | | 612 | |
| GSS07... | k | 558 | 566 | 634 | 616 | | 678 | | 655 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GSS□□-2A H□R ... RSO

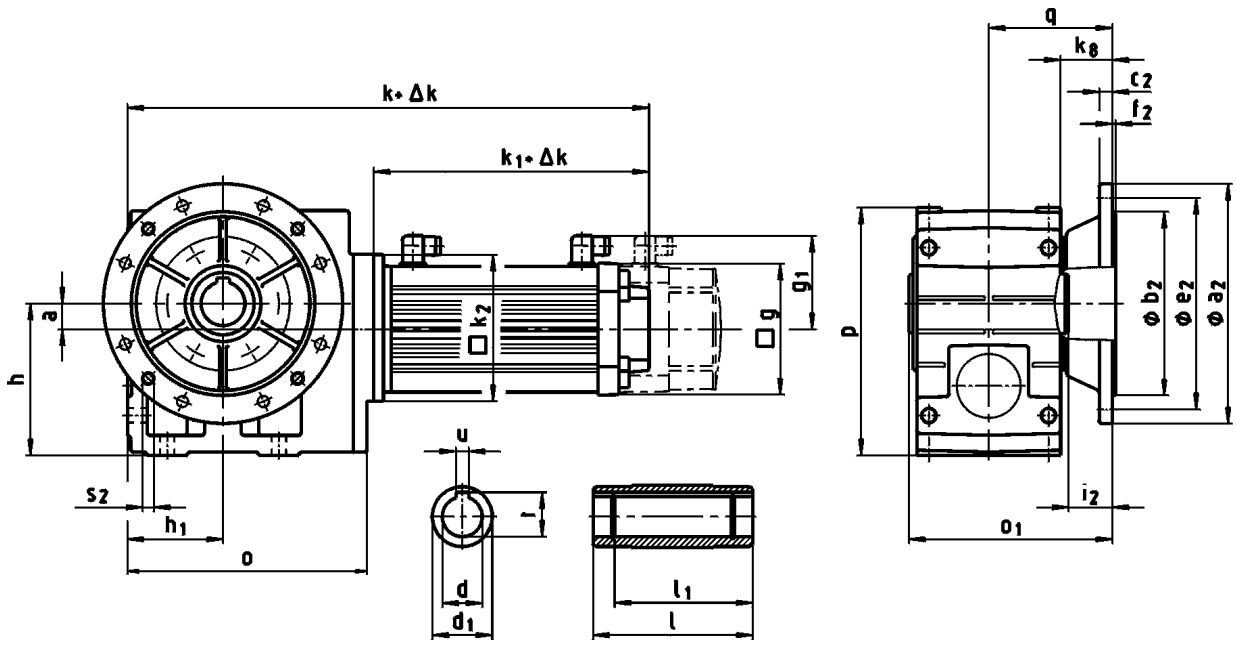
| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 701 | | | | | | | | | |
| GSS07... | k | 744 | | 724 | | 821 | | 802 | | 898 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GSS□□-2A H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 171 | 100 | 71 | 20 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 20 | 22 | 9 |
| **GSS05...** | 212 | 205 | 125 | 80 | 23 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 255 | 250 | 150 | 100 | 26 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 305 | 310 | 190 | 120 | 33 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

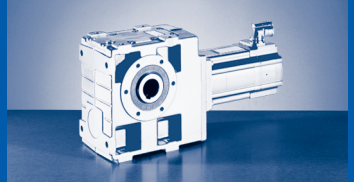
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GSS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 |
| | 30 | | | | | 33.3 | | | | | | |
| **GSS05...** | | 140 | 50 | 124 | | | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |




## GSS□□-2A HAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 453 | 462 | 530 | | | | | | |
| GSS05... | k | 475 | 483 | 551 | 533 | | 595 | | | |
| GSS06... | k | 515 | 523 | 591 | 573 | | 635 | | 612 | |
| GSS07... | k | 558 | 566 | 634 | 616 | | 678 | | 655 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GSS□□-2A HAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 701 | | | | | | | | | |
| GSS07... | k | 744 | | 724 | | 821 | | 802 | | 898 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

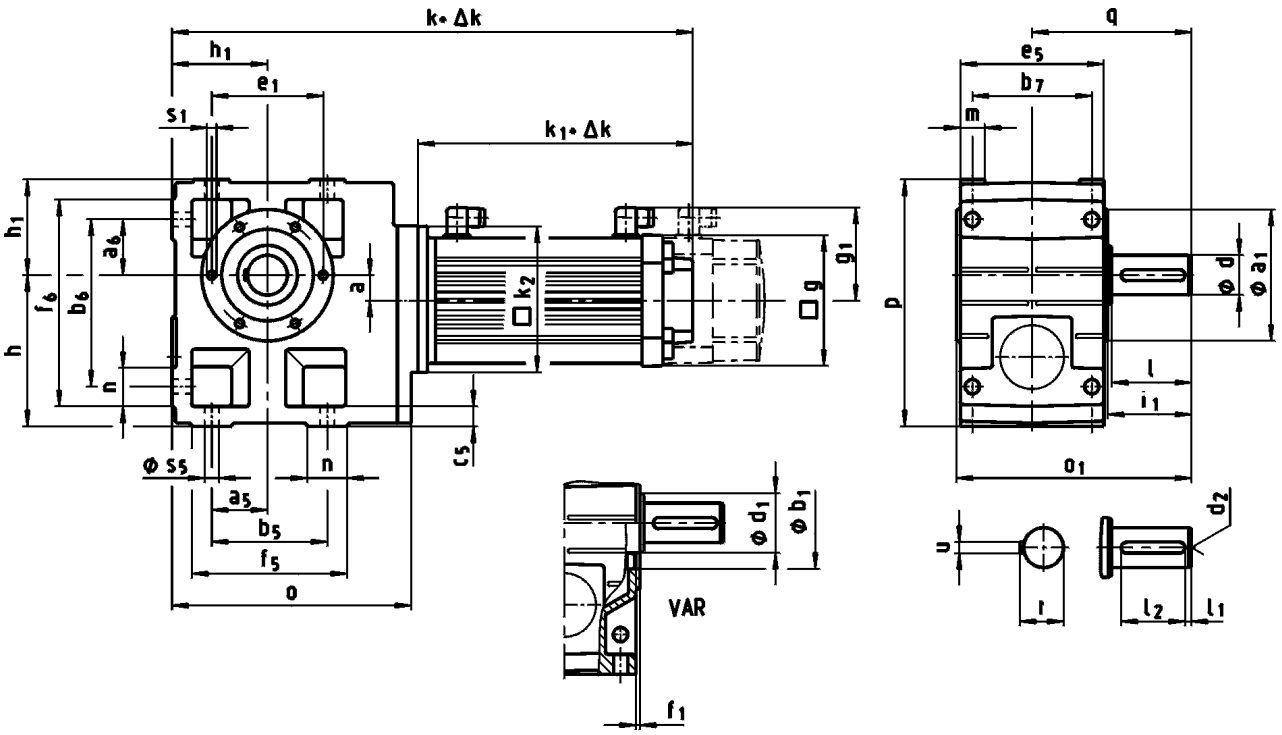
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GSS□□-2A HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 149 | 171 | 100 | 71 | 20 | 91 | 41 |
| **GSS05...** | 212 | 174 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GSS06...** | 255 | 203 [2]<br>202 [3] | 250 | 150 | 100 | 26 | 122.5 [2]<br>121.5 [3] | 50 [2]<br>49 [3] |
| **GSS07...** | 305 | 256 | 310 | 190 | 120 | 33 | 155.5 | 66 |

[2] $a_2$ = 200
[3] $a_2$ = 250

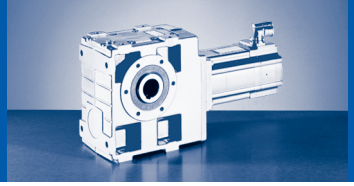
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GSS04...** | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33.5 | 4 x 9 |
| | 30 | | | | | 33.3 | | | | | | | |
| **GSS05...** | 35 | 140 | 50 | 124 | 10 | 38.3 | 200 | 130 | 12 | 165 | | | 4 x 11 |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |




## GSS□□-2A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 453 | 462 | 530 | | | | | | |
| GSS05... | k | 475 | 483 | 551 | 533 | | 595 | | | |
| GSS06... | k | 515 | 523 | 591 | 573 | | 635 | | 612 | |
| GSS07... | k | 558 | 566 | 634 | 616 | | 678 | | 655 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GSS□□-2A V□R ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 701 | | | | | | | | | |
| GSS07... | k | 744 | | 724 | | 821 | | 802 | | 898 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

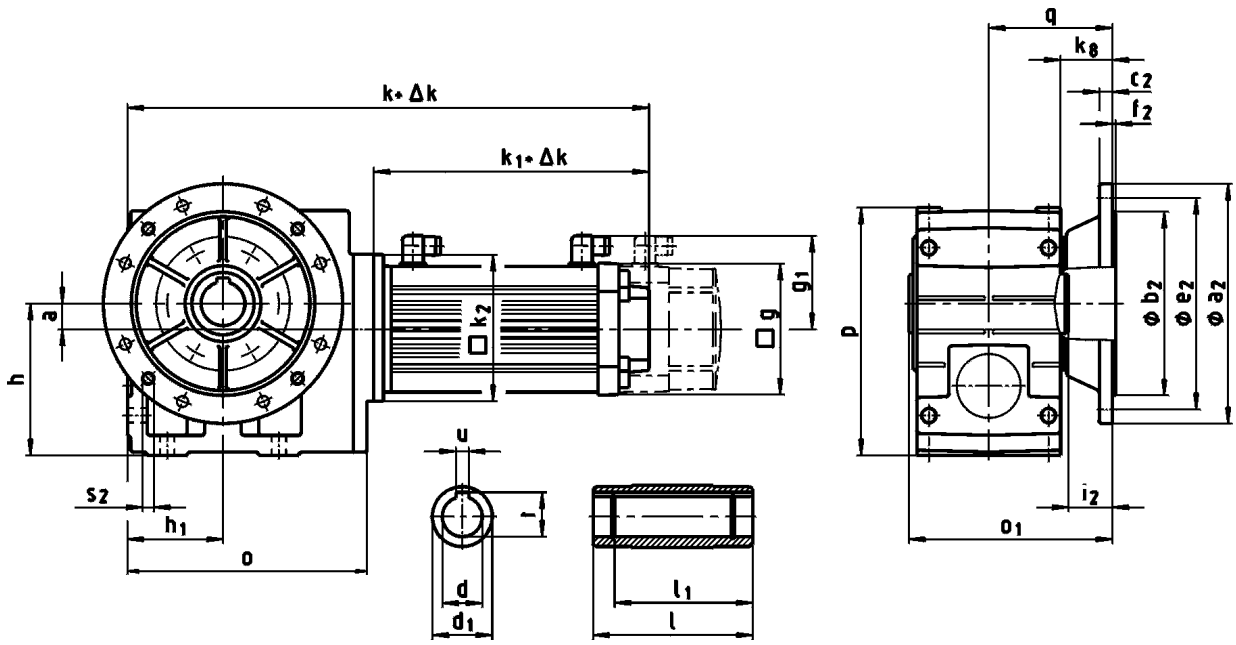
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GSS□□-2A V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 163 | 171 | 100 | 71 | 20 | 107.5 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 20 | 22 | 9 |
| **GSS05...** | 212 | 197 | 205 | 125 | 80 | 23 | 130 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 255 | 236 | 250 | 150 | 100 | 26 | 160 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 305 | 296 | 310 | 190 | 120 | 33 | 200 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GSS04...** | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 |
| **GSS05...** | 30 | 60 | 50 | 6 | 45 | | | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GSS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GSS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |

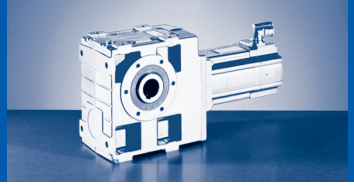
d ≤ 50 mm: k6; d > 50 mm: m6




## GSS□□-2A VAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| GSS04... | k | 453 | 462 | 530 | | | | | | |
| GSS05... | k | 475 | 483 | 551 | 533 | | 595 | | | |
| GSS06... | k | 515 | 523 | 591 | 573 | | 635 | | 612 | |
| GSS07... | k | 558 | 566 | 634 | 616 | | 678 | | 655 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $k_2$ | 145 | | | 180 | | | | | |
| | g | 102 | 131 | | 142 | | | | 165 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GSS□□-2A VAK ... RSO

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSS06... | k | 701 | | | | | | | | | |
| GSS07... | k | 744 | | 724 | | 821 | | 802 | | 898 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | | | | |
| ...RSO P□ [1] | Δ k | 35 | | 38 | | | | 42 | | | |
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $k_2$ | 180 | | 222 | | | | 265 | | | |
| | g | 165 | | 192 | | | | 214 | | | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |

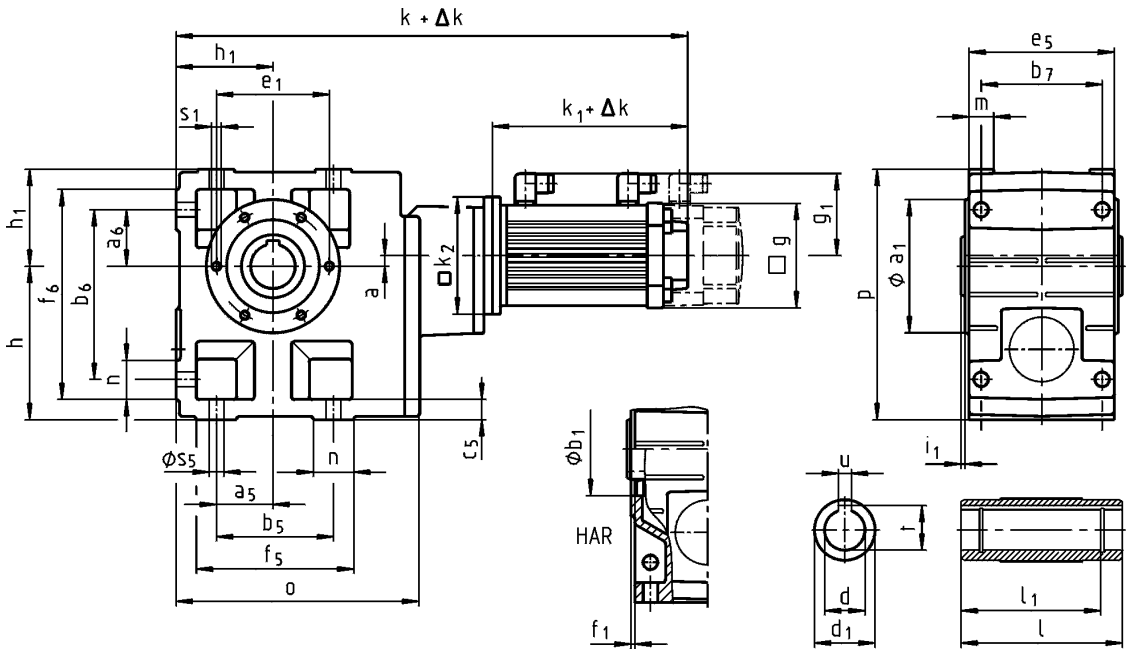
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

## GSS□□-2A VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 181 | 196 | 171 | 100 | 71 | 20 | 91 | 41 |
| **GSS05...** | 212 | 230 | 205 | 125 | 80 | 23 | 103.5 | 40 |
| **GSS06...** | 255 | 277 | 250 | 150 | 100 | 26 | 121.5 | 49 |
| **GSS07...** | 305 | 351 | 310 | 190 | 120 | 33 | 155.5 | 66 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GSS04...** | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| **GSS05...** | 30 | 60 | 6 | 45 | | | 33 | 200 | 130 | 12 | 165 | | 60 | 4 x 11 |
| **GSS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GSS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |

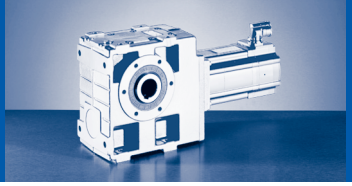
d ≤ 50 mm: k6; d > 50 mm: m6




## GSS□□-3A H□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 |
|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 551 | 560 | 628 | | | | |
| GSS06... | k | 608 | 617 | 685 | | | | |
| GSS07... | k | 662 | 671 | 739 | 721 | | 783 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | |
| | $k_2$ | 145 | | | 180 | | | |
| | g | 102 | 131 | | 142 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | |

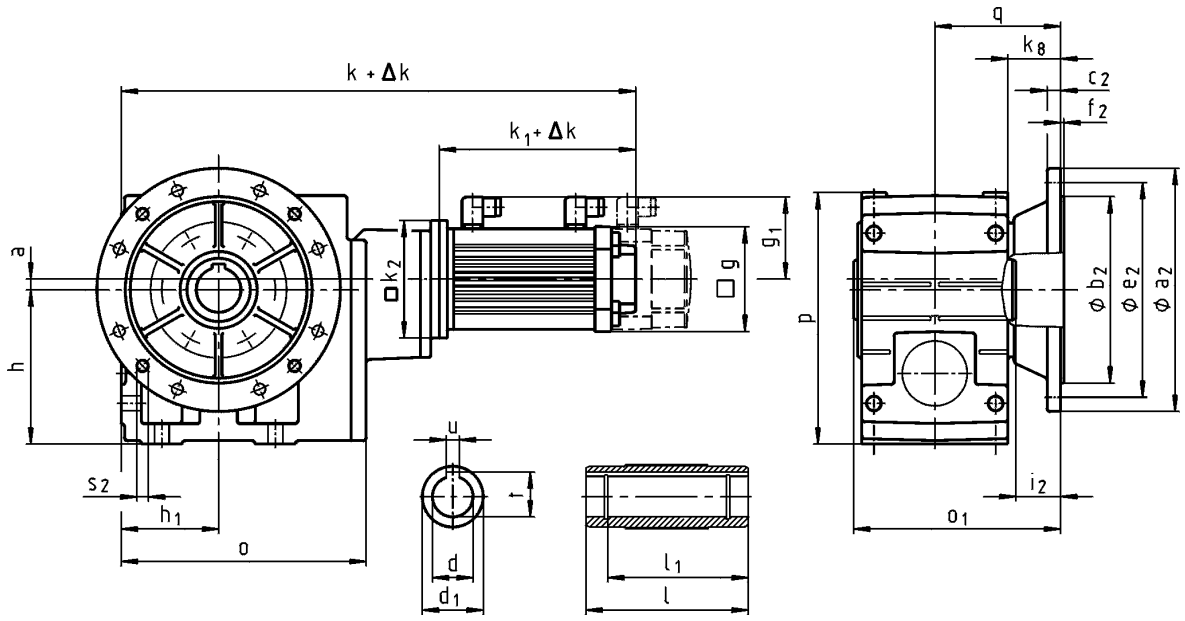
[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



## GSS□□-3A H□R

| | o | p | h | $h_1$ | a | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | |
| **GSS05...** | 209 | 205 | 125 | 80 | 13 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 252 | 250 | 150 | 100 | 10 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 299 | 310 | 190 | 120 | 12 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

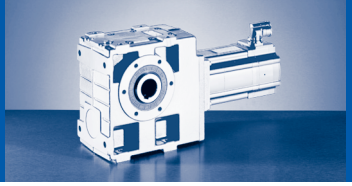
| | d | l | $d_1$ | $l_1$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | H7 | | | | 6x60° |
| **GSS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 118 | 80 | 100 | 4 | 4 | M8x15 |
| | 35 | | | | 10 | 38.3 | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | 140 | 100 | 120 | | 5 | M10x16 |
| | 45 | | | | 14 | 48.8 | | | | | | |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | 165 | 115 | 140 | 5 | | M12x18 |
| | 55 | | | | 16 | 59.3 | | | | | | |




## GSS□□-3A HAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 |
|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 551 | 560 | 628 | | | | |
| GSS06... | k | 608 | 617 | 685 | | | | |
| GSS07... | k | 662 | 671 | 739 | 721 | | 783 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | |
| | $k_2$ | 145 | | | 180 | | | |
| | g | 102 | 131 | | 142 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

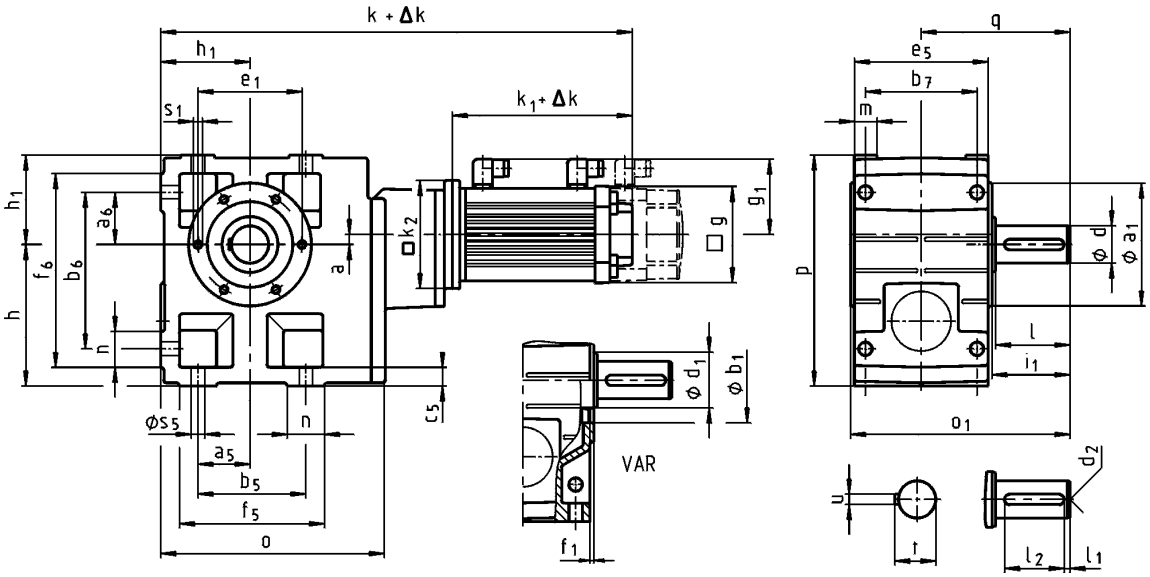


## GSS□□-3A HAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **GSS05...** | 209 | 174 | 205 | 125 | 80 | 13 | 103.5 | 40 |
| **GSS06...** | 252 | 203 [1]<br>202 [2] | 250 | 150 | 100 | 10 | 122.5 [1]<br>121.5 [2] | 50 [1]<br>49 [2] |
| **GSS07...** | 299 | 256 | 310 | 190 | 120 | 12 | 155.5 | 66 |

[1] $a_2$ = 200
[2] $a_2$ = 250

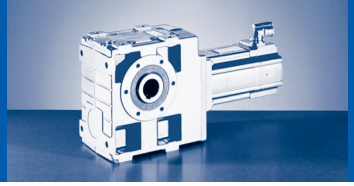
| | d | l | $d_1$ | $l_1$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H7 | | | | JS9 | +0,2 | | j7 | | | | | |
| **GSS05...** | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33.5 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| **GSS06...** | 40 | 160 | 65 | 140 | 12 | 43.3 | | | | | | 42.5 | |
| | 45 | | | | 14 | 48.8 | 250 | 180 | 15 | 215 | 4 | 41.5 | 4 x 14 |
| **GSS07...** | 50 | 200 | 75 | 175 | | 53.8 | | | | | | 55.5 | |
| | 55 | | | | 16 | 59.3 | 300 | 230 | 17 | 265 | | | |




## GSS□□-3A V□R ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 |
|---|---|---|---|---|---|---|---|---|
| GSS05... | k | 551 | 560 | 628 | | | | |
| GSS06... | k | 608 | 617 | 685 | | | | |
| GSS07... | k | 662 | 671 | 739 | 721 | | 783 | |
| ...RSO B0 [1] | Δ k | 0 | | | | | | |
| ...RSO P□ [1] | Δ k | 25 | 35 | | 33 | | | |
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | |
| | $k_2$ | 145 | | | 180 | | | |
| | g | 102 | 131 | | 142 | | | |
| | $g_1$ | 90 | 102 | | 109 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

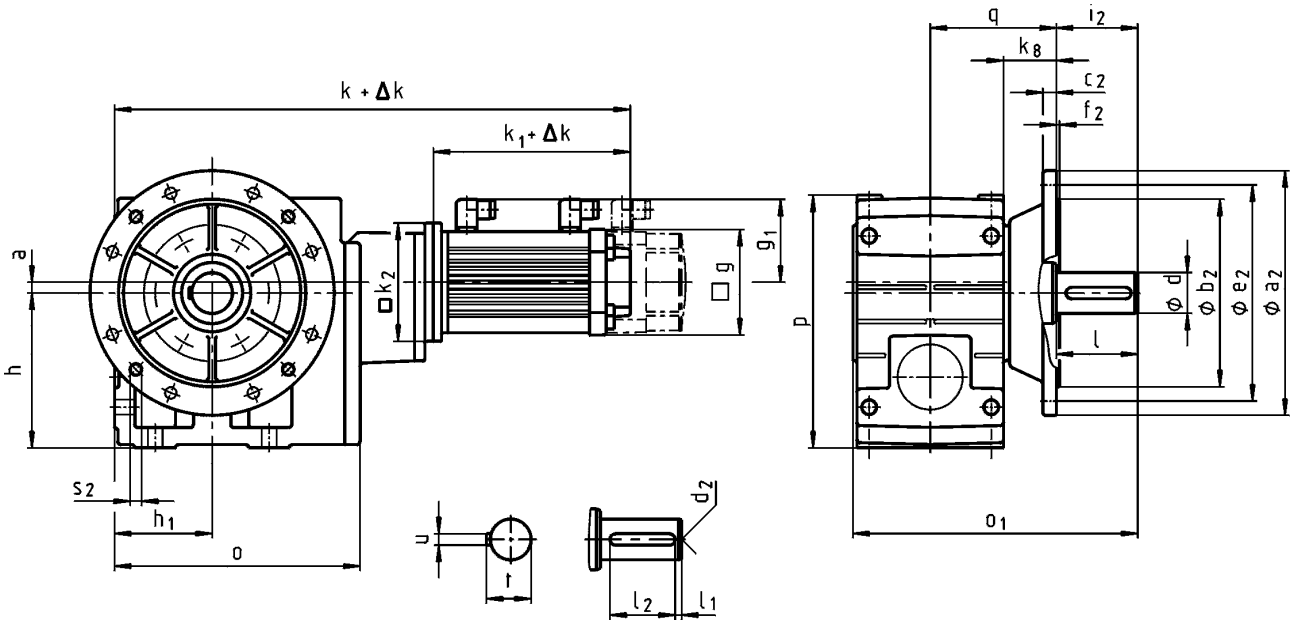


## GSS□□-3A V□R

| | o | $o_1$ | p | h | $h_1$ | a | q | $a_5$ | $a_6$ | $b_5$ | $b_6$ | $b_7$ | $c_5$ | $e_5$ | $f_5$ | $f_6$ | m | n | $s_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GSS05...** | 209 | 197 | 205 | 125 | 80 | 13 | 130 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 21 | 29 | 11 |
| **GSS06...** | 252 | 236 | 250 | 150 | 100 | 10 | 160 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 23 | 36 | 14 |
| **GSS07...** | 299 | 296 | 310 | 190 | 120 | 12 | 200 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 28 | 45 | 18 |

| | d | l | $d_1$ | $l_1$ | $l_2$ | $d_2$ | u | t | $a_1$ | $b_1$ | $e_1$ | $f_1$ | $i_1$ | $s_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | H7 | | | | 6x60° |
| **GSS05...** | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 |
| **GSS06...** | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | | 85 | M10x16 |
| **GSS07...** | 50 | 100 | 75 | 8 | 80 | | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 |

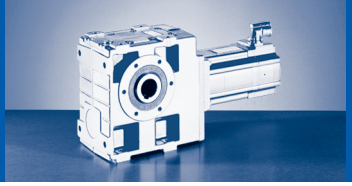
d ≤ 50 mm: k6; d > 50 mm: m6




## GSS□□-3A VAK ... RSO

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 |
|---|---|---|---|---|---|---|---|---|
| GSS05... | **k** | 551 | 560 | 628 | | | | |
| GSS06... | **k** | 608 | 617 | 685 | | | | |
| GSS07... | **k** | 662 | 671 | 739 | 721 | | 783 | |
| ...RSO B0 [1] | **Δ k** | 0 | | | | | | |
| ...RSO P□ [1] | **Δ k** | 25 | 35 | | 33 | | | |
| | **$k_1$** | 258 | 267 | 335 | 307 | | 369 | |
| | **$k_2$** | 145 | | | 180 | | | |
| | **g** | 102 | 131 | | 142 | | | |
| | **$g_1$** | 90 | 102 | | 109 | | | |

[1] → 803 - SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD



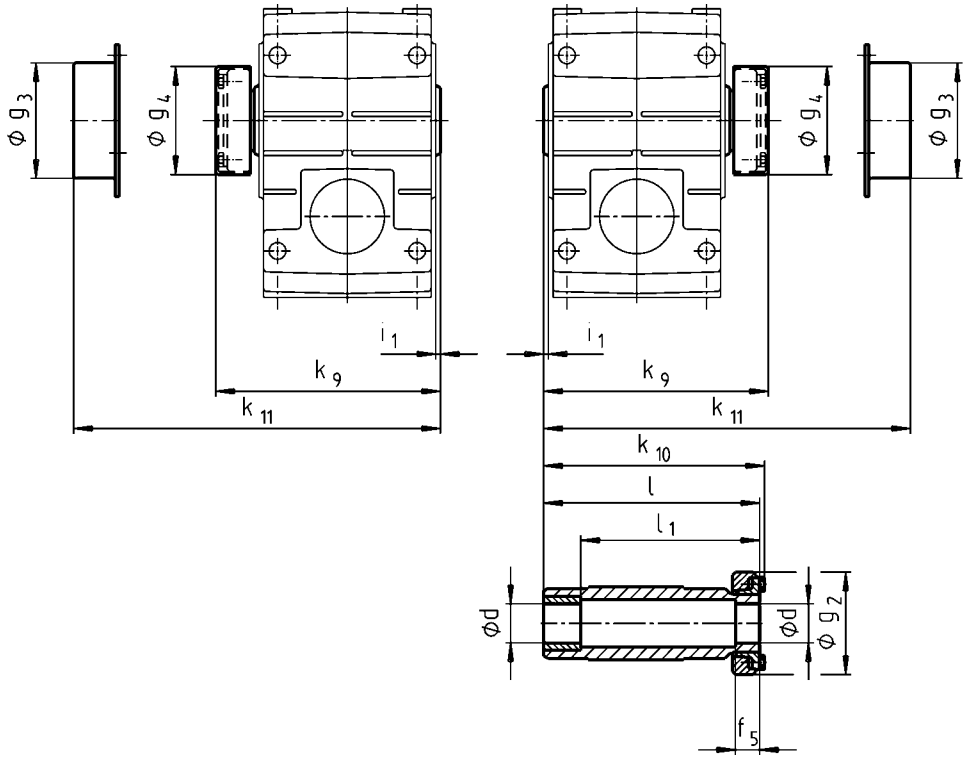
## GSS□□-3A VAK

| | o | $o_1$ | p | h | $h_1$ | a | q | $k_8$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **GSS05...** | 209 | 230 | 205 | 125 | 80 | 13 | 103.5 | 40 |
| **GSS06...** | 252 | 277 | 250 | 150 | 100 | 10 | 121.5 | 49 |
| **GSS07...** | 299 | 351 | 310 | 190 | 120 | 12 | 155.5 | 66 |

| | d | l | $l_1$ | $l_2$ | $d_2$ | u | t | $a_2$ | $b_2$ | $c_2$ | $e_2$ | $f_2$ | $i_2$ | $s_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | j7 | | | | | |
| **GSS05...** | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| **GSS06...** | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 15 | 215 | 4 | 80 | 4 x 14 |
| **GSS07...** | 50 | 100 | 8 | 80 | | 14 | 53.5 | 300 | 230 | 17 | 265 | | 100 | |

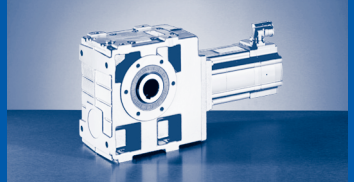
d ≤ 50 mm: k6; d > 50 mm: m6

## Hohlwelle mit Schrumpfscheibe

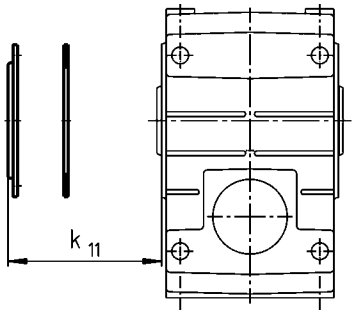



| | Maschinenwelle | Hohlwelle mit Schrumpfscheibe | | | | | | Schutzkappe | | Abdeckhaube | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | $i_1$ | $k_{10}$ | $g_2$ | l | $l_1$ | $f_5$ | $k_9$ | $g_4$ | $k_{11}$ | $g_3$ |
| | h6 | | | | | | | | | | |
| **GSS04...** | 25<br>30 | 2.5 | 148 | 72 | 142 | 122 | 26 | 150 | 76 | 154 | 79 |
| **GSS05...** | 35 | 4 | 174 | 80 | 168 | 148 | 28 | 176 | 84 | 179 | 90 |
| **GSS06...** | 40 | 5 | 200 | 90 | 194 | 164 | 30 | 202 | 94 | 204 | 100 |
| **GSS07...** | 50 | | 238 | 110 | 232 | 192 | 26 | 241 | 116 | 244 | 124 |

► Bei Schrumpfscheibenausführungen auf ausreichende Festigkeit des Wellenwerkstoffes achten.
Bei Verwendung üblicher Stähle (z. B. C45, 42CrMo4) können die in den Auswahltabellen genannten Momente uneingeschränkt übertragen werden.
Bei Verwendung von Werkstoffen mit wesentlich geringerer Festigkeit bitten wir um Rücksprache. Die mittlere Rautiefe Rz sollte 15 µm nicht überschreiten (Drehbearbeitung ist ausreichend).

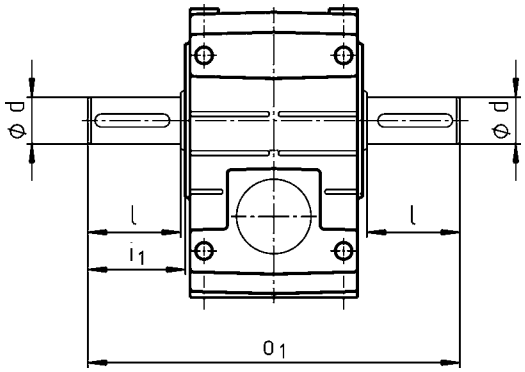


## Hohlwellenabdeckung strahlwasserfest



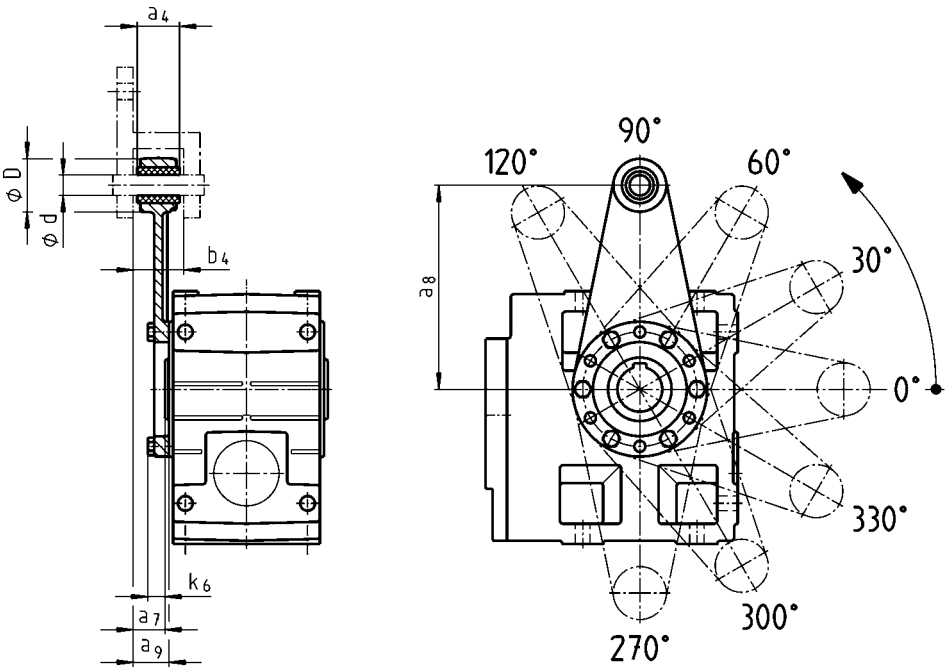

| | Abdeckhaube inkl. Dichtung |
|---|---|
| | $k_{11}$ |
| GSS04... | 9 |
| GSS05... | 10 |
| GSS06... | 11 |
| GSS07... | |

## Getriebe mit 2. Abtriebswellenende

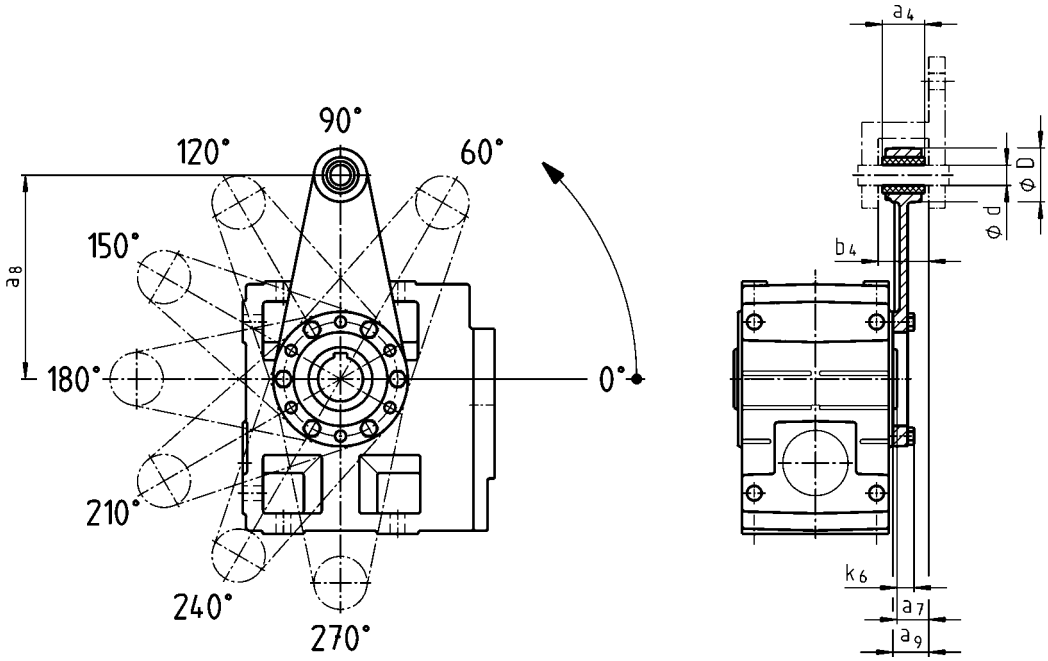



| | d | l | $i_1$ | $o_1$ |
|---|---|---|---|---|
| GSS04... | 25 | 50 | 52.5 | 215 |
| GSS05... | 30 | 60 | 64 | 260 |
| GSS06... | 40 | 80 | 85 | 320 |
| GSS07... | 50 | 100 | 105 | 400 |

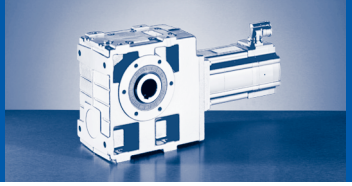
## Drehmomentstütze an Gewindelochkreis in Lage 3



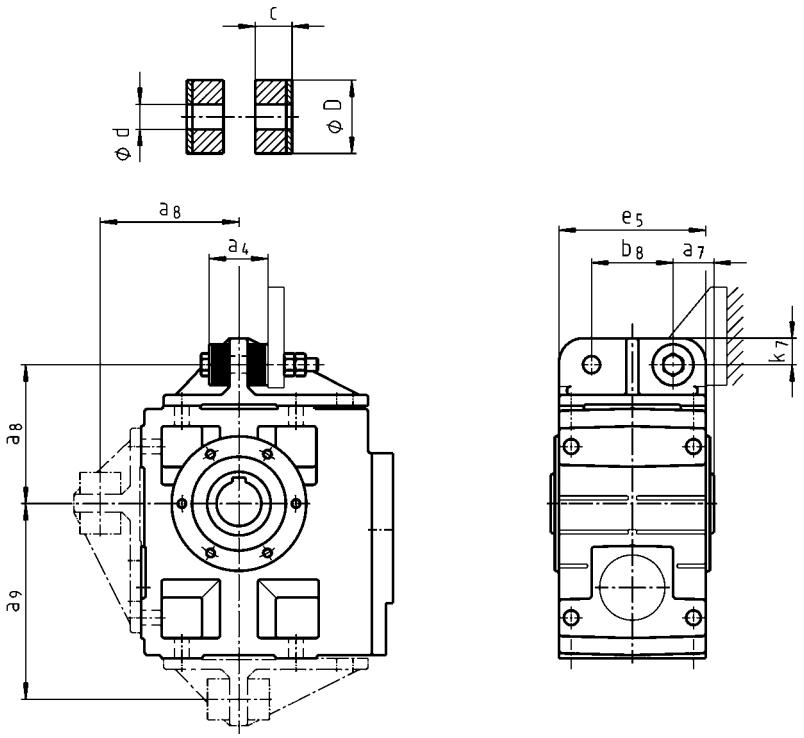

## Drehmomentstütze an Gewindelochkreis in Lage 5




| | Einbauraum | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $a_7$ | $b_4$ | $a_4$ | $a_8$ | $a_9$ | d | D | $k_6$ |
| GSS04... | 24 | 34.5 | 30 | 130 | 26.5 | 12 | 35 | 16 |
| GSS05... | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 15 |
| GSS06... | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 |
| GSS07... | 32.5 | 50.5 | 46 | 250 | 37.5 | 25 | 65 | 21 |

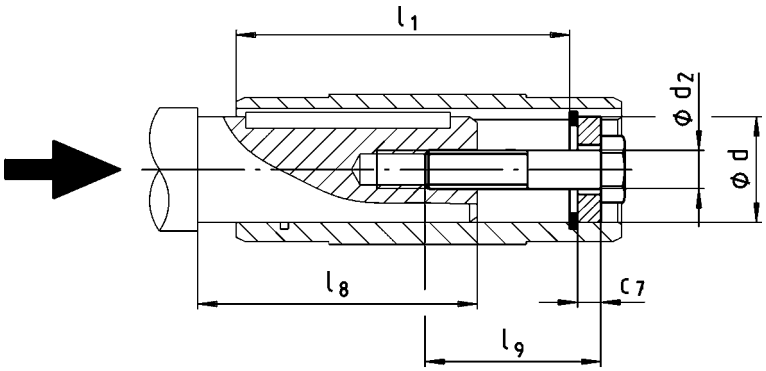


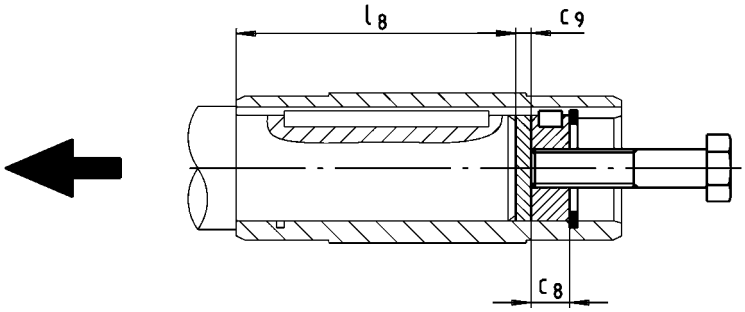
## Drehmomentstütze an Gehäusefuß in Lage 2, 4 oder 6




| | $a_4$ | $a_7$ | $a_8$ | $a_9$ | $b_8$ | c | d | D | $e_5$ | $k_7$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **GSS04...** | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| **GSS05...** | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| **GSS06...** | 72 | 40 | 145 | 195 | 80 | 27 | 17 | 50 | 145 | 28 |
| **GSS07...** | 78 | 50 | 170 | 240 | 100 | 28 | 21 | 60 | 180 | 35 |

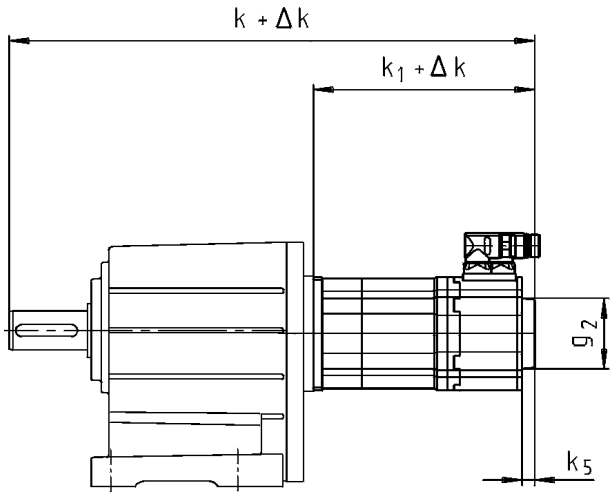
## Montagesatz Hohlwellensicherung - Gestaltungsvorschlag für Hilfswerkzeuge




| | Hohlwelle | | Montagesatz Hohlwellensicherung (Hilfswerkzeug Montage) | | | Hilfswerkzeug Demontage | | Maschinenwelle |
|---|---|---|---|---|---|---|---|---|
| | d | $l_1$ | $d_2$ | $l_9$ | $c_7$ | $c_8$ | $c_9$ | max $l_8$ |
| | H7 | | | | | | | |
| GSS04... | 25 | 100 | M10 | 40 | 5 | 10 | 3 | 85 |
| | 30 | | | | 6 | | | |
| GSS05... | | 124 | | | | | | 107 |
| | 35 | | M12 | 50 | 7 | 12 | | |
| GSS06... | 40 | 140 | M16 | 60 | 8 | 16 | 4 | 118 |
| | 45 | | | | 9 | | | |
| GSS07... | 50 | 175 | | | 10 | | 5 | 148 |
| | 55 | | M20 | 80 | 11 | 20 | | |



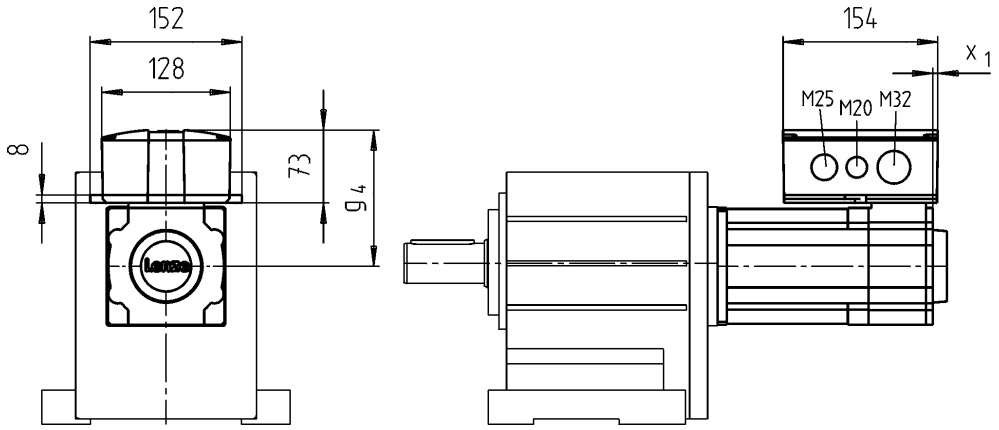



## G□□...SRS / SRM / ECN / EQN / EQI / C20

| | | 06C □41 | 06F □41 | 06I □41 | 09D □41 | 09F □38 | 09H □41 | 09L □41 | 12D □20 | 12D □41 | 12H □15 | 12H □30 | 12H □35 | 12L □20 | 12L □41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...SRS / SRM / ECN B0<br>...EQN / EQI / C20 B0 | Δ k | 82 | | | 51 | | | | 49 | | | | | | |
| ...SRS / SRM / ECN P□<br>...EQN / EQI / C20 P□ | Δ k | 100 | | | 71 | | | | 69 | | | | | | |
| ...S□□ / E□□ / C20 | $g_2$ | □ 86 | | | Ø 81 | | | | Ø 89 | | | | | | |
| ...SR□ / E□□ / C40 | $k_5$ | 82 | | | 64 | | | | 63 | | | | | | |

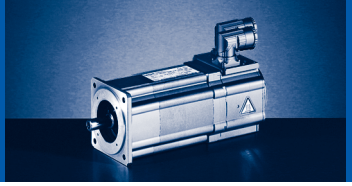
| | | 14D □15 | 14D □36 | 14H □15 | 14H □32 | 14L □15 | 14L □32 | 14P □14 | 14P □32 | 19F □14 | 19F □30 | 19J □14 | 19J □30 | 19P □14 | 19P □30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ...SRS / SRM / ECN B0<br>...EQN / EQI / C20 B0 | Δ k | 50 | | | | | | | | 49 | | | | | |
| ...SRS / SRM / ECN P□<br>...EQN / EQI / C20 P□ | Δ k | 78 | | | | | | | | 83 | | 93 | | | |
| ...S□□ / E□□ / C20 | $g_2$ | Ø 101 | | | | | | | | | | | | | |
| ...SR□ / E□□ / C40 | $k_5$ | 74 | | | | | | | | 64 | | | | | |

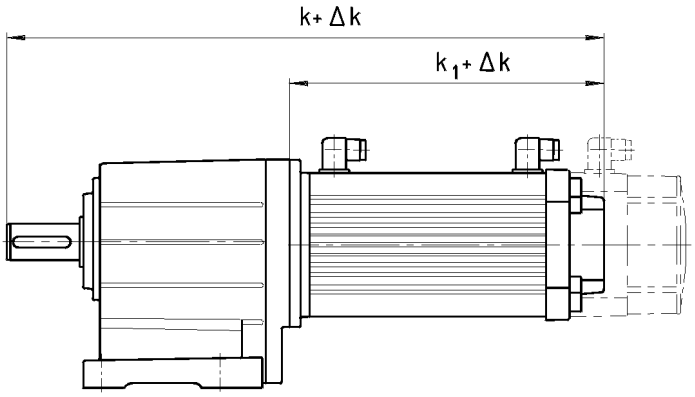
## Motoranschluss Klemmenkasten




| | 09D □41 | 09F □38 | 09H □41 | 09L □41 | 12D □20 | 12D □41 | 12H □15 | 12H □30 | 12H □35 | 12L □20 | 12L □41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $g_4$ | 121 | | | | 136 | | | | | | |
| $x_1$ | 8 | | | | 5 | | | | | | |

| | 14D □15 | 14D □36 | 14H □15 | 14H □32 | 14L □15 | 14L □32 | 14P □14 | 14P □32 | 19F □14 | 19F □30 | 19J □14 | 19J □30 | 19P □14 | 19P □30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $g_4$ | 147 | | | | | | | | 172 | | | | | |
| $x_1$ | 3 | | | | | | | | | | | | | |



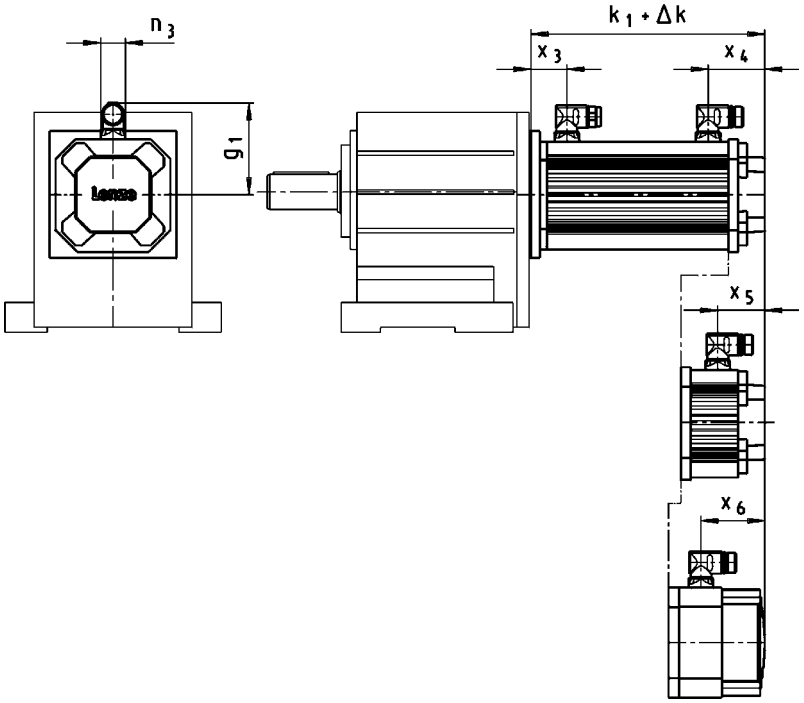



## G□□...SRS / SRM / ECN / EQN / EQI / S20 / T20 / CDD

| | | 10I □40 ...S00 | 13I □41 ...S00 | 13I □34 ...F10 | 14L □20 ...S00 | 14L □41 ...S00 | 14L □16 ...F10 | 14L □35 ...F10 | 17N □23 ...S00 | 17N □41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | | 55 | | | | 54 | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 79 | 89 | | 88 | | | | 89 | |

| | | 17N □17 ...F10 | 17N □35 ...F10 | 19S □23 ...S00 | 19S □42 ...S00 | 19S □17 ...F10 | 19S □35 ...F10 | 21X □25 ...S00 | 21X □42 ...S00 | 21X □17 ...F10 | 21X □35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | 50 | | | | 49 | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 89 | | 88 | | | | 91 | | | |

## Motoranschluss Steckverbinder




## GST / GFL / GKR / GKS / GSS□□-□A

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |
| | $n_3$ | 28 | | | | | | | | |
| | $x_6$ | - | | 73 | - | | 67 | | - | |
| ...RSO B0 | Δ k | 0 | | | | | | | | |
| | $x_3$ | 33 | 41 | | 46 | | | | 49 | |
| | $x_4$ | 61 | 65 | 133 | 73 | | 135 | | 73 | |
| ...RSO P□ | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $x_3$ | 55 | 68 | | 73 | | | | 81 | |
| | $x_4$ | 61 | 65 | 133 | 73 | | 135 | | 73 | |
| ...SRS / SRM / ECN / EQN B0 ...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | | 55 | | | | 54 | |
| | $x_3$ | 33 | 41 | | 46 | | | | 49 | |
| | $x_4$ | - | 119 | 187 | 127 | | 189 | | 127 | |
| | $x_5$ | 54 | - | | | | | | | |
| ...SRS / SRM / ECN / EQN P□ ...EQI / S20 / T20 / CDD P□ | Δ k | 79 | 89 | | 88 | | | | 89 | |
| | $x_3$ | 55 | 68 | | 73 | | | | 81 | |
| | $x_4$ | - | 119 | 187 | 127 | | 189 | | 127 | |
| | $x_5$ | 54 | - | | | | | | | |

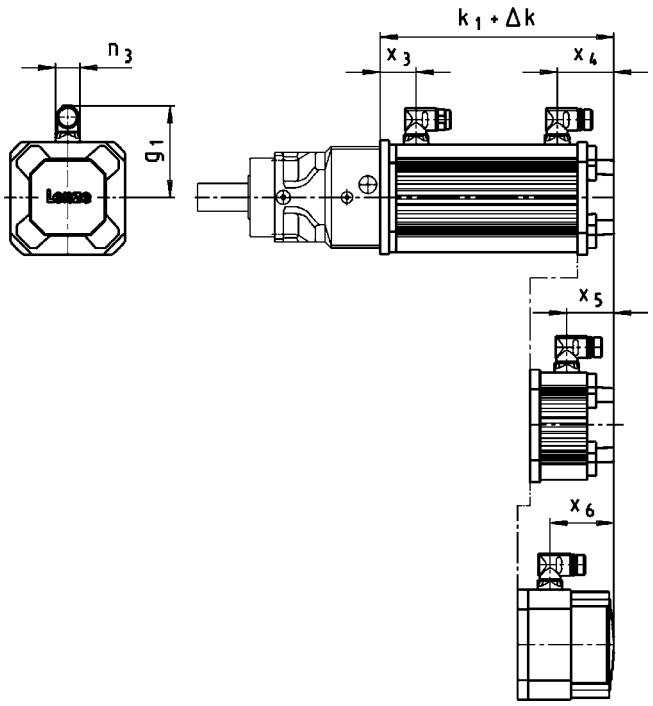


## Motoranschluss Steckverbinder

## GST / GFL / GKR / GKS / GSS□□-□A

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |
| | $n_3$ | 28 | | 45 | | | | | | | |
| | $x_6$ | 95 | | - | | 103 | | - | | 96 | |
| ...RSO B0 | Δ k | 0 | | | | | | | | | |
| | $x_3$ | 49 | | 63 | | | | 71 | | | |
| | $x_4$ | 162 | | 73 | | 170 | | 78 | | 174 | |
| ...RSO P□ | Δ k | 35 | | 38 | | | | 42 | | | |
| | $x_3$ | 81 | | 98 | | | | 111 | | | |
| | $x_4$ | 162 | | 73 | | 170 | | 78 | | 174 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | 50 | | | | 49 | | | |
| | $x_3$ | 49 | | 63 | | | | 71 | | | |
| | $x_4$ | 216 | | 123 | | 220 | | 126 | | 222 | |
| | $x_5$ | - | | | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 89 | | 88 | | | | 91 | | | |
| | $x_3$ | 81 | | 98 | | | | 111 | | | |
| | $x_4$ | 216 | | 123 | | 220 | | 126 | | 222 | |
| | $x_5$ | - | | | | | | | | | |

## Motoranschluss Steckverbinder




### GPA□□-□A

| | | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 262 | 271 | 339 | 302 | | 364 | | 340 | |
| | $g_1$ | 90 | 102 | | 109 | | | | 118 | |
| | $n_3$ | 28 | | | | | | | | |
| | $x_6$ | - | | 73 | - | | 67 | | - | |
| ...RSO B0 | Δ k | 0 | | | | | | | | |
| | $x_3$ | 37 | 45 | | 41 | | | | 43 | |
| | $x_4$ | 61 | 65 | 133 | 73 | | 135 | | 73 | |
| ...RSO P□ | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $x_3$ | 59 | 72 | | 68 | | | | 75 | |
| | $x_4$ | 61 | 65 | 133 | 73 | | 135 | | 73 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | | 55 | | | | 54 | |
| | $x_3$ | 37 | 45 | | 41 | | | | 43 | |
| | $x_4$ | - | 119 | 187 | 127 | | 189 | | 127 | |
| | $x_5$ | 54 | - | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 79 | 89 | | 88 | | | | 89 | |
| | $x_3$ | 59 | 72 | | 68 | | | | 75 | |
| | $x_4$ | - | 119 | 187 | 127 | | 189 | | 127 | |
| | $x_5$ | 54 | - | | | | | | | |

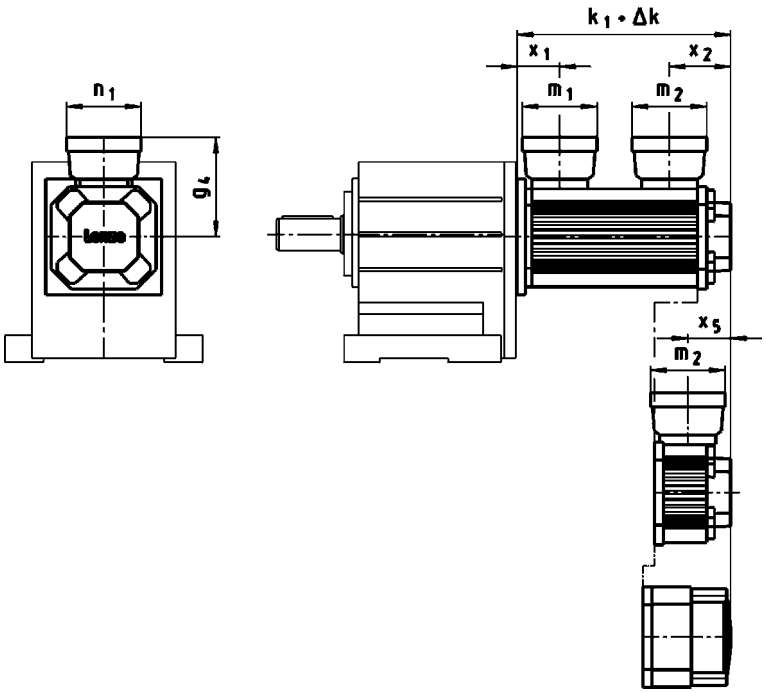


## Motoranschluss Steckverbinder

### GPA□□-□A

| | | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 429 | | 401 | | 498 | | 470 | | 566 | |
| | $g_1$ | 118 | | 161 | | | | 172 | | | |
| | $n_3$ | 28 | | 45 | | | | | | | |
| | $x_6$ | 95 | | - | | 103 | | - | | 96 | |
| ...RSO B0 | Δ k | 0 | | | | | | | | | |
| | $x_3$ | 43 | | 56 | | | | 62 | | | |
| | $x_4$ | 162 | | 73 | | 170 | | 78 | | 174 | |
| ...RSO P□ | Δ k | 35 | | 38 | | | | 42 | | | |
| | $x_3$ | 75 | | 91 | | | | 102 | | | |
| | $x_4$ | 162 | | 73 | | 170 | | 78 | | 174 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | 50 | | | | 49 | | | |
| | $x_3$ | 43 | | 56 | | | | 62 | | | |
| | $x_4$ | 216 | | 123 | | 220 | | 126 | | 222 | |
| | $x_5$ | - | | | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 89 | | 88 | | | | 91 | | | |
| | $x_3$ | 75 | | 91 | | | | 102 | | | |
| | $x_4$ | 216 | | 123 | | 220 | | 126 | | 222 | |
| | $x_5$ | - | | | | | | | | | |

## Motoranschluss Klemmenkasten




### GST / GFL / GKR / GKS / GSS□□-□A

| | | 10I C40 ...S00 | 13I C41 ...S00 | 13I C34 ...F10 | 14L C20 ...S00 | 14L C41 ...S00 | 14L C16 ...F10 | 14L C35 ...F10 | 17N C23 ...S00 | 17N C41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 258 | 267 | 335 | 307 | | 369 | | 346 | |
| | $g_4$ | 113 | 125 | | 132 | | | | 140 | |
| | $m_1$ | 93 | | | | | | | | |
| | $m_2$ | 93 | | | | | | | | |
| | $n_1$ | 93 | | | | | | | | |
| | $x_1$ | 60 | 53 | | 58 | | | | 61 | |
| ...RSO B0 | Δ k | 0 | | | | | | | | |
| | $x_2$ | 78 | 77 | 145 | 85 | | 147 | | 85 | |
| ...RSO P□ | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $x_2$ | 78 | 77 | 145 | 85 | | 147 | | 85 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | | 55 | | | | 54 | |
| | $x_2$ | - | 131 | 199 | 139 | | 201 | | 139 | |
| | $x_5$ | 50 | - | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 79 | 89 | | 88 | | | | 89 | |
| | $x_2$ | - | 131 | 199 | 139 | | 201 | | 139 | |
| | $x_5$ | 50 | - | | | | | | | |
| Klemmenkasten in Lage 2<br>Kabelverschraubungen in Lage 5 | | 1 x M16x1.5<br>1 x M20x1.5 | | | | | | | | |



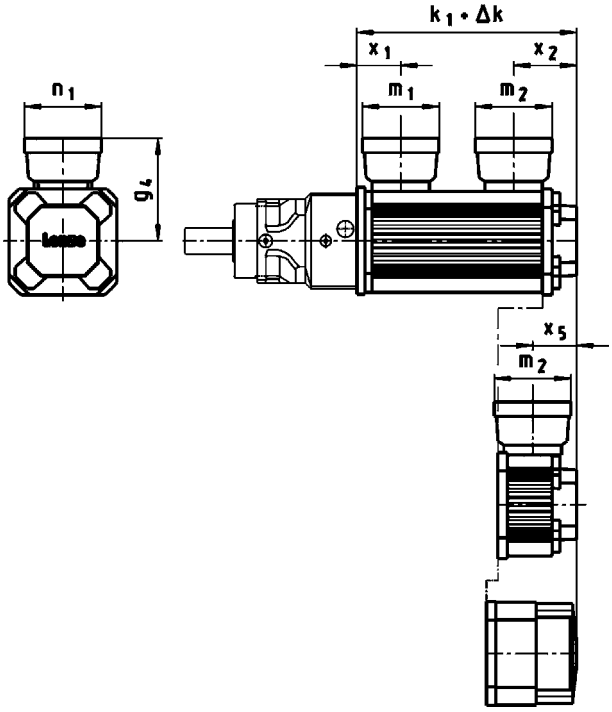
## Motoranschluss Klemmenkasten

## GST / GFL / GKR / GKS / GSS□□-□A

| | | 17N C17 ...F10 | 17N C35 ...F10 | 19S C23 ...S00 | 19S C42 ...S00 | 19S C17 ...F10 | 19S C35 ...F10 | 21X C25 ...S00 | 21X C42 ...S00 | 21X C17 ...F10 | 21X C35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 435 | | 408 | | 505 | | 479 | | 575 | |
| | $g_4$ | 140 | | 158 | | | | 169 | | | |
| | $m_1$ | 93 | | 120 | | | | | | | |
| | $m_2$ | 93 | | 93 [1]<br>120 [2] | | 93 | | 93 [1]<br>120 [2] | | 93 | |
| | $n_1$ | 93 | | 109 | | | | | | | |
| | $x_1$ | 61 | | 80 | | | | 93 | | | |
| ...RSO B0 | $\Delta k$ | 0 | | | | | | | | | |
| | $x_2$ | 174 | | 93 [1]<br>87 [2] | | 190 | | 97 [1]<br>92 [2] | | 193 | |
| ...RSO P□ | $\Delta k$ | 35 | | 38 | | | | 42 | | | |
| | $x_2$ | 174 | | 93 [1]<br>87 [2] | | 190 | | 97 [1]<br>92 [2] | | 193 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | $\Delta k$ | 54 | | 50 | | | | 49 | | | |
| | $x_2$ | 228 | | 143 [1]<br>137 [2] | | 240 | | 146 [1]<br>140 [2] | | 242 | |
| | $x_5$ | - | | | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | $\Delta k$ | 89 | | 88 | | | | 91 | | | |
| | $x_2$ | 228 | | 143 [1]<br>137 [2] | | 240 | | 146 [1]<br>140 [2] | | 242 | |
| | $x_5$ | - | | | | | | | | | |
| Klemmenkasten in Lage 2<br>Kabelverschraubungen in Lage 5 | | 1 x M16x1.5<br>1 x M20x1.5 | | 1 x M16x1.5 [1]<br>1 x M20x1.5 [1]<br>1 x M25x1.5 [2]<br>1 x M32x1.5 [2] | | 1 x M16x1.5<br>1 x M20x1.5 | | 1 x M16x1.5 [1]<br>1 x M20x1.5 [1]<br>1 x M25x1.5 [2]<br>1 x M32x1.5 [2] | | 1 x M16x1.5<br>1 x M20x1.5 | |

[1] IP54
[2] IP65

## Motoranschluss Klemmenkasten




### GPA□□-□A

| | | 10I N40 ...S00 | 13I N41 ...S00 | 13I N34 ...F10 | 14L N20 ...S00 | 14L N41 ...S00 | 14L N16 ...F10 | 14L N35 ...F10 | 17N N23 ...S00 | 17N N41 ...S00 |
|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 262 | 271 | 339 | 302 | | 364 | | 340 | |
| | $g_4$ | 113 | 125 | | 132 | | | | 140 | |
| | $m_1$ | 93 | | | | | | | | |
| | $m_2$ | 93 | | | | | | | | |
| | $n_1$ | 93 | | | | | | | | |
| | $x_1$ | 54 | 57 | | 53 | | | | 55 | |
| ...RSO B0 | Δ k | 0 | | | | | | | | |
| | $x_2$ | 78 | 77 | 145 | 85 | | 147 | | 85 | |
| ...RSO P□ | Δ k | 25 | 35 | | 33 | | | | 35 | |
| | $x_2$ | 78 | 77 | 145 | 85 | | 147 | | 85 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | Δ k | 54 | | | 55 | | | | 54 | |
| | $x_2$ | - | 131 | 199 | 139 | | 201 | | 139 | |
| | $x_5$ | 50 | - | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | Δ k | 79 | 89 | | 88 | | | | 89 | |
| | $x_2$ | - | 131 | 199 | 139 | | 201 | | 139 | |
| | $x_5$ | 50 | - | | | | | | | |
| Klemmenkasten in Lage 2<br>Kabelverschraubungen in Lage 5 | | 1 x M16x1.5<br>1 x M20x1.5 | | | | | | | | |



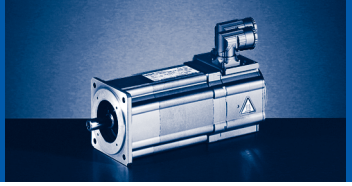
## Motoranschluss Klemmenkasten

### GPA□□-□A

| | | 17N N17 ...F10 | 17N N35 ...F10 | 19S N23 ...S00 | 19S N42 ...S00 | 19S N17 ...F10 | 19S N35 ...F10 | 21X N25 ...S00 | 21X N42 ...S00 | 21X N17 ...F10 | 21X N35 ...F10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $k_1$ | 429 | | 401 | | 498 | | 470 | | 566 | |
| | $g_4$ | 140 | | 158 | | | | 169 | | | |
| | $m_1$ | 93 | | 120 | | | | | | | |
| | $m_2$ | 93 | | 93 [1]<br>120 [2] | | 93 | | 93 [1]<br>120 [2] | | 93 | |
| | $n_1$ | 93 | | 109 | | | | | | | |
| | $x_1$ | 55 | | 73 | | | | 84 | | | |
| ...RSO B0 | $\Delta k$ | 0 | | | | | | | | | |
| | $x_2$ | 174 | | 93 [1]<br>87 [2] | | 190 | | 97 [1]<br>92 [2] | | 193 | |
| ...RSO P□ | $\Delta k$ | 35 | | 38 | | | | 42 | | | |
| | $x_2$ | 174 | | 93 [1]<br>87 [2] | | 190 | | 97 [1]<br>92 [2] | | 193 | |
| ...SRS / SRM / ECN / EQN B0<br>...EQI / S20 / T20 / CDD B0 | $\Delta k$ | 54 | | 50 | | | | 49 | | | |
| | $x_2$ | 228 | | 143 [1]<br>137 [2] | | 240 | | 146 [1]<br>140 [2] | | 242 | |
| | $x_5$ | - | | | | | | | | | |
| ...SRS / SRM / ECN / EQN P□<br>...EQI / S20 / T20 / CDD P□ | $\Delta k$ | 89 | | 88 | | | | 91 | | | |
| | $x_2$ | 228 | | 143 [1]<br>137 [2] | | 240 | | 146 [1]<br>140 [2] | | 242 | |
| | $x_5$ | - | | | | | | | | | |
| Klemmenkasten in Lage 2<br>Kabelverschraubungen in Lage 5 | | 1 x M16x1.5<br>1 x M20x1.5 | | 1 x M16x1.5 [1]<br>1 x M20x1.5 [1]<br>1 x M25x1.5 [2]<br>1 x M32x1.5 [2] | | 1 x M16x1.5<br>1 x M20x1.5 | | 1 x M16x1.5 [1]<br>1 x M20x1.5 [1]<br>1 x M25x1.5 [2]<br>1 x M32x1.5 [2] | | 1 x M16x1.5<br>1 x M20x1.5 | |

[1] IP54
[2] IP65







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