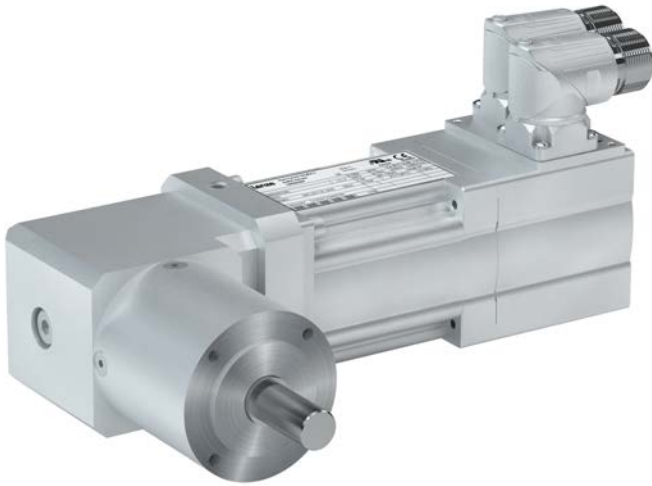


g7xx-B and g8xx-B / MCS bevel planetary geared servo motor



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About this document

Document description

This document addresses to all persons who want to carry out any configurations with the products described.

The data and information compiled in this document serve to support you in the dimensioning and selection processes and in carrying out the electrical and mechanical installation. You will receive information regarding product extensions and accessories.

- The document includes safety instructions which must be observed.
- All persons working on and with the drives must have the documentation at hand during work and observe the information and notes relevant for it.
- The documentation must always be complete and in a perfectly readable state.



Further documents



Information and tools with regard to the Lenze products can be found on the Internet:

www.lenze.com → Downloads



Notations and conventions

This document uses the following conventions to distinguish different types of information.

Numeric notation		
Decimal separator	Point	Generally shown as a decimal point. Example: 1 234.56
Warning		
UL warning	UL	Are used in English and French.
UR warning	UR	
Text		
Engineering tools	» «	Software, Example: »Engineer«, »EASY Starter«
Icons		
Page reference		Refers to another page with additional information. Example:  16 = see page 16
Documentation reference		Refers to another documentation with additional information. Example:  EDKxxx = see documentation EDKxxx

Layout of the safety instructions

DANGER!

Indicates an extremely hazardous situation. Failure to comply with this instruction will result in severe irreparable injury and even death.

WARNING!

Indicates an extremely hazardous situation. Failure to comply with this instruction may result in severe irreparable injury and even death.

CAUTION!

Indicates a hazardous situation. Failure to comply with this instruction may result in slight to medium injury.

NOTICE

Indicates a material hazard. Failure to comply with this instruction may result in material damage.



Product information

Product description

When used in combination with servo motors, our bevel planetary gearboxes form a compact, powerful drive unit. Numerous options at the input and output ends ensure that the drive can be easily and precisely adjusted to suit your application.

The bevel planetary gearboxes are the ideal solution for demanding, dynamic tasks. With their high reliability, long service life and outstanding scalability, they provide everything you need to manage demanding machine tasks.

The bevel planetary gearboxes are available as standard and precision gearboxes.

General differences between precision gearboxes and standard gearboxes:

- Reduced backlash
- Higher radial and axial forces
- Higher degree of protection

Synchronous servo motors as a basis for geared motors

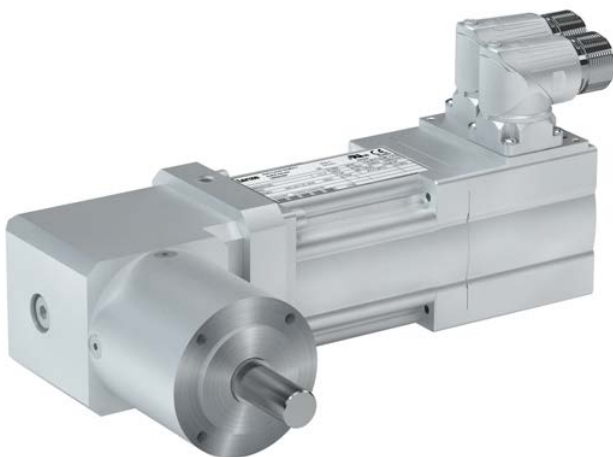
In a power range of 0.25 to 15.8 kW, Lenze offers servo motors with a scalable modular design.

The drives are designed for the open-loop or closed-loop controlled servo inverter operation.

These motors feature a high dynamic performance and overload capacity.

Customer benefit

- Easy assembly and easy servicing by connectors with bayonet lock and swivel connector boxes
- Reduced cabling by One Cable Technology (OCT) in connection with a digital absolute value encoder
- High overload capacity of the motors
- Suitable for any mounting position
- High efficiency
- Space-saving thanks to compact direct attachment
- Wide speed setting range
- Can be used universally for a wide range of machine tasks due to the market-oriented modular system



g700-PB44 bevel planetary gearbox with MCS06 synchronous servo motor



g780-B130 bevel planetary gearbox with MCS12 synchronous servo motor



Identification of the products

When listing the technical data of the various variants, the easily legible product names are used. This also applies to the assignment of product extensions.

Product name g7x0 standard gearbox

Gearbox type	Product range		Version	Rated torque [Nm]	Product
Bevel planetary gearbox	g700	-	B	44	g700-B44
				130	g700-B130
				260	g700-B260
	g720	-	B	44	g720-B44
				130	g720-B130
				260	g720-B260
	g730	-	B	33	g730-B33
				97	g730-B97
				195	g730-B195
	g780	-	B	44	g780-B44
				130	g780-B130
				260	g780-B260

Product name g8x0 precision gearbox

Gearbox type	Product range		Version	Rated torque [Nm]	Product
Bevel planetary gearbox	g850	-	B	77	g850-B77
				150	g850-B150
				300	g850-B300
				800	g850-B800
	g860	-	B	45	g870-B45
				70	g870-B70
				140	g870-B140
				320	g870-B320
	g880	-	B	62	g880-B62
				130	g880-B130
				310	g880-B310
				625	g880-B625

Product name: MCS synchronous servo motor

Meaning	Variant					
Product family		MCS				
Size			06 09 12 14 19			
Overall length				C ... P		
Rated speed	rpm x 100				11 ... 60	
Inverter mains connection	3 x 400 V					-
	3 x 230 V					L



Designs

Standard gearboxes



g700-B

- Basic gearboxes
- Good price/performance ratio
- Permanently high speeds



g720-B

- Reinforced deep-groove ball bearings
- Flange at the output end
- Broad ratio range



g730-B

- Reinforced deep-groove ball bearings
- Reinforced housing



g780-B

- Robust taper roller bearings
- Protection against dust and water jets
- Degree of protection IP65

Gearbox		g700-B	g720-B	g730-B	g780-B
Rated torque	Nm	5 ... 260	14 ... 260	5 ... 195	14 ... 260
Max. backlash	'	11 ... 28	11 ... 21	11 ... 25	11 ... 18
Static radial force	rated	200 ... 2000	1500 ... 4000	1300 ... 4000	900 ... 3800
Static axial force	rated	240 ... 3800	1950 ... 3800	1000 ... 5900	1200 ... 5200
Tooth system		straight toothed			
Output flange		FT	FF	FT	FF

Precision gearbox



g850-B

- Spiral arc toothing
- 2-stage gearbox with additional planetary stage
- Very low backlash



g860-B

- Spiral arc toothing
- Hollow shaft version with shrink disc
- Very low backlash



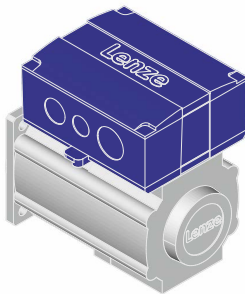
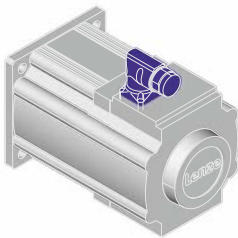
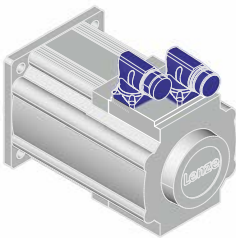
g880-B

- Spiral arc toothing
- 2-stage gearbox with additional planetary stage
- Flange output shaft

Gearbox		g850-B	g860-B	g880-B
Rated torque	Nm	22 ... 800	22 ... 320	22 ... 625
Max. backlash	'	3 ... 5	5	3 ... 5
Static radial force	rated	3200 ... 12500	2700 ... 10000	2400 ... 12000
Static axial force	rated	4300 ... 15000	4300 ... 14500	4200 ... 9500
Tooth system		Spiral-arc toothing		
Output flange		FF		



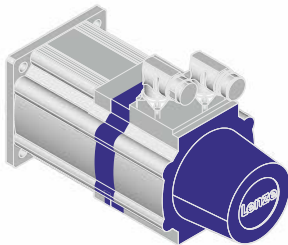
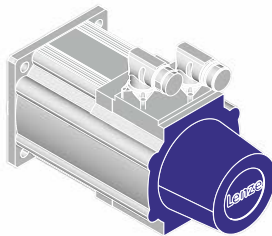
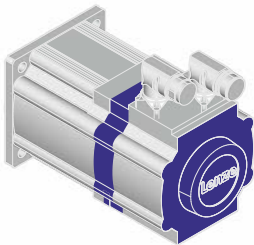
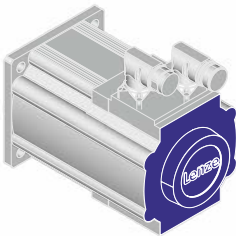
Models at the output
Motor connection



Connector

ICN hybrid connector for One Cable Technology (OCT) Terminal box

Cooling: Self-ventilated



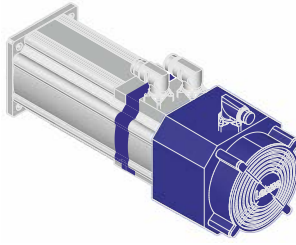
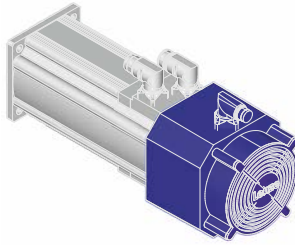
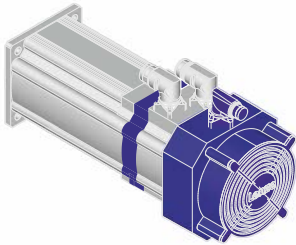
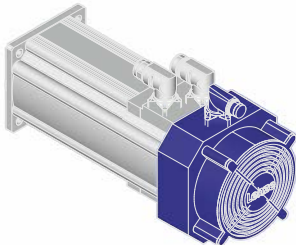
Resolver

Resolver and brake

Absolute value/incremental encoder

Absolute value/incremental encoder and brake

Cooling: Forced-ventilated



Resolver

Resolver and brake

Absolute value/incremental encoder

Absolute value/incremental encoder and brake



Information on project planning

Safety instructions

Basic safety instructions

Disregarding the following basic safety instructions and safety information may lead to severe personal injury and damage to property!

- Only use the product as directed.
- Never commission the product in the event of visible damage.
- Never modify the product technically.
- Never commission the product before assembly has been completed.
- Never operate the product without the required covers.
- Connect/disconnect all pluggable connections only in deenergized condition!
- Only remove the product from the installation in the deenergized state.
- The product can – depending on their degree of protection – have live, movable or rotating parts during or after operation. Surfaces can be hot.
- Observe the specifications of the corresponding documentation. This is the condition for safe and trouble-free operation and the achievement of the specified product features.
- The procedural notes and circuit details given in the associated documentation are suggestions and their transferability to the respective application has to be checked. The manufacturer of the product does not take responsibility for the suitability of the process and circuit proposals.
- All work with and on the product may only be carried out by qualified personnel. IEC 60364 and CENELEC HD 384 define the qualifications of these persons:
 - They are familiar with installing, mounting, commissioning, and operating the product.
 - They have the corresponding qualifications for their work.
 - They know and can apply all regulations for the prevention of accidents, directives, and laws applicable at the place of use.

Application as directed

- The product is a professional equipment intended for use by trades, specific professions or industry and not for sale to the general public. IEC 60050 [IEV 161-05-05]
- To prevent personal injury and damage to property, higher-level safety and protection systems must be used!
- All transport locks must be removed.
- Mounted eye bolts on the motor are not suitable for transporting geared motors.
- The product may only be operated under the specified operating conditions and in the specified mounting positions.
- The product may only be operated on the inverter.
- Built-in brakes must not be used as safety brakes.
- The product must not be operated in private areas, in potentially explosive atmospheres and in areas with harmful gases, oils, acids and radiation.



Residual hazards

Even if notes given are taken into consideration and protective measures are implemented, the occurrence of residual risks cannot be fully prevented.

The user must take the residual hazards mentioned into consideration in the risk assessment for his/her machine/system.

If the above is disregarded, this can lead to severe injuries to persons and damage to property!

Product

Observe the warning labels on the product!



Dangerous electrical voltage:

Before working on the product, make sure there is no voltage applied to the power terminals!
After mains disconnection, the power terminals will still carry the hazardous electrical voltage for the time given next to the symbol!



Electrostatic sensitive devices:

Before working on the product, the staff must ensure to be free of electrostatic charge!



High leakage current:

Carry out fixed installation and PE connection in compliance with:
EN 61800-5-1 / EN 60204-1



Hot surface:

Use personal protective equipment or wait until the device has cooled down!

Protection of persons

- The power terminals may carry voltage in the switched-off state or when the motor is stopped.
 - Before working, check whether all power terminals are deenergized.
- Voltages may occur on the drive components (e.g. capacitive, caused by inverter supply).
 - Careful earthing in the marked positions of the components must be carried out.
- There is a risk of burns from hot surfaces.
 - Provide protection against accidental contact.
 - Use personal protective equipment or wait until the device has cooled down.
 - Prevent contact with flammable substances.
- There is a risk of injury due to rotating parts.
 - Before working on the drive system, ensure that the motor is at a standstill.
- There is a risk of accidental start-up or electric shock.

Motor protection

- Installed temperature sensors are no full protection for the machine.
 - If necessary, limit the maximum current. Parameterize the inverter so that it will be switched off after some seconds of operation with $I > I_{rated}$, especially if there is a risk of blocking.
 - Integrated overload protection does not prevent overloading under all conditions.
- The fuses are no motor protection.
 - Use a current-dependent motor protection switch.
 - Use the built-in temperature sensors.



Gearbox protection

- Excessive vibration accelerations and resonances will damage the gearbox.
 - Do not operate the gearbox at vibration accelerations $> 2 \text{ g}$ (20 m/s^2) of the machine.
 - Do not operate the gearbox in the resonance range of the machine.
- Excessive torques will damage the gearboxes.
 - Do not exceed the output torques specified on the nameplate.
- Excessive input speeds lead to increased temperatures.
 - Do not exceed the input speeds specified on the nameplate.
- Avoid excessive lateral forces on the gearbox shaft.
 - Align the shafts of the gearbox and driven machine exactly with each other.
- Machine elements can be damaged by a lack of lubricant.
 - Mount the gearbox only in the mounting position indicated on the nameplate.
 - When changing the lubricant, use the lubricant type and quantity specified on the nameplate.



Drive dimensioning

In order to carry out an accurate drive dimensioning process, you can use our configuring software, the »EASY System Designer«.

With the »EASY System Designer«, you can design the drive both quickly and to a high quality. The software contains profound and proven expertise with regard to drive applications and mechatronic drive components.

Please get in touch with your Lenze representative.

Workflow

S1 operation		S2, S3 and S6 operation	
1	Check operating conditions	1	Check operating conditions
2	Define required input variables	2	Define required input variables
3	Determine correction factor	3	Determine correction factor
4	Determine gearbox on the basis of the acting forces	4	Determine gearbox on the basis of the acting forces
5	Determine required gearbox load capacity	5	Determine gearbox efficiency
6	Calculate required drive power	6	Determine required gearbox load capacity
7	Check and select geared motor	7	Calculate required drive power
8	Final configuration	8	Check and select geared motor
		9	Check servo motor based on the motor torque characteristic
		10	Final configuration

Check operating conditions

Check
Approvals
Conformities
Supply voltage
Degree of protection
Ambient temperature
Surface protection

► Standards and operating conditions 29

► Surface and corrosion protection 21

Define required input variables

Necessary input variables	Note	Symbol	Unit
Operating time/day		BD	h
Mean speed utilization of the geared motor	Relating to the load speed n_L		%
Ambient temperature		T_V	°C
Site altitude Amsl		H	m
Radial force		F_{rad}	rated
Axial force		F_{ax}	rated
Transmission element at the output	Gear wheels, sprockets ...		
Effective diameter of the transmission element		d_w	mm
Load torque	Only with S1, S2, S3, and S6 operating modes	M_L	Nm
Load speed	Only with S1, S2, S3, and S6 operating modes	n_L	rpm
Short-time maximum torque	Emergency off, quick stop, occasional high starting duty	$M_{L,max}$	Nm
Runtime with maximum torque		t_L	%



Determine correction factor

Operating modes S1, S2, S3, S6, and operating time							
Operating mode S1		Operating mode S2		Operating mode S3		Operating mode S6	
ED	k_L	ED	k_L	ED	k_L	ED	k_L
%		min		%		%	
100	1.0	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

► Operating modes of the motor [453](#)

Ambient temperature and installation height				
Ambient temperature	Installation height amsl			
	≤ 1000 m	≤ 2000 m	≤ 3000 m	≤ 4000 m
	Correction factor			
T_U	k_H	k_H	k_H	k_H
≤ 20 °C	1.10	1.01	0.92	0.84
30 °C	1.05	0.97	0.88	0.80
40 °C	1.00	0.92	0.83	0.77
50 °C	0.92	0.85	0.76	0.70
60 °C	0.84	0.78	0.69	0.64

Mean speed utilisation					
Daily operating time	Mean speed utilisation relating to the load speed n_L				
	100 %	80 %	60 %	50 %	25 %
	Correction factor				
	k_N	k_N	k_N	k_N	k_N
1.0 h	1.29	1.33	1.38	1.42	1.55
2.0 h	1.15	1.20	1.25	1.29	1.42
3.0 h	1.08	1.12	1.17	1.21	1.34
4.0 h	1.02	1.06	1.12	1.15	1.29
5.5 h	0.96	1.00	1.06	1.09	1.22
8.0 h	0.89	0.93	0.99	1.02	1.15
12.0 h	0.81	0.85	0.91	0.94	1.08
16.0 h	0.76	0.80	0.85	0.89	1.02
22.0 h	0.71	0.76	0.81	0.85	0.98
24.0 h	0.68	0.72	0.78	0.81	0.94

Mean speed					
Operating mode S2		Operating mode S3		Operating mode S6	
ED	k_M	ED	k_M	ED	k_M
min		%		%]	
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	



Determine product on the basis of the forces

Transmission element			Gear wheels	Sprockets	Toothed belt pulleys (depending on the pretension)	Narrow V-belt (depending on the pretension)
Additional radial force factor	f _z		≥ 17 teeth: 1.0	≥ 20 teeth: 1.0	With belt tightener: 2.0 – 2.5	1.5 – 2.0
			< 17 teeth: 1.15	< 20 teeth: 1.25 < 13 teeth: 1.4	Without belt tightener: 2.5 – 3.0	
			Calculation		Check	
Radial force	F _{rad}	N	$F_{rad} = 2000 \times \frac{M_{L,max} \times f_z}{dw}$		$F_{rad} \leq f_w \times F_{rad,max}$	
Axial force	F _{ax}	N			$F_{ax} \leq F_{rad,max} \times 0.5$	

dw Effective diameter of transmission element in mm

f_w Additional load factor

► [Radial forces and axial forces](#) 34

Determine gearbox efficiency

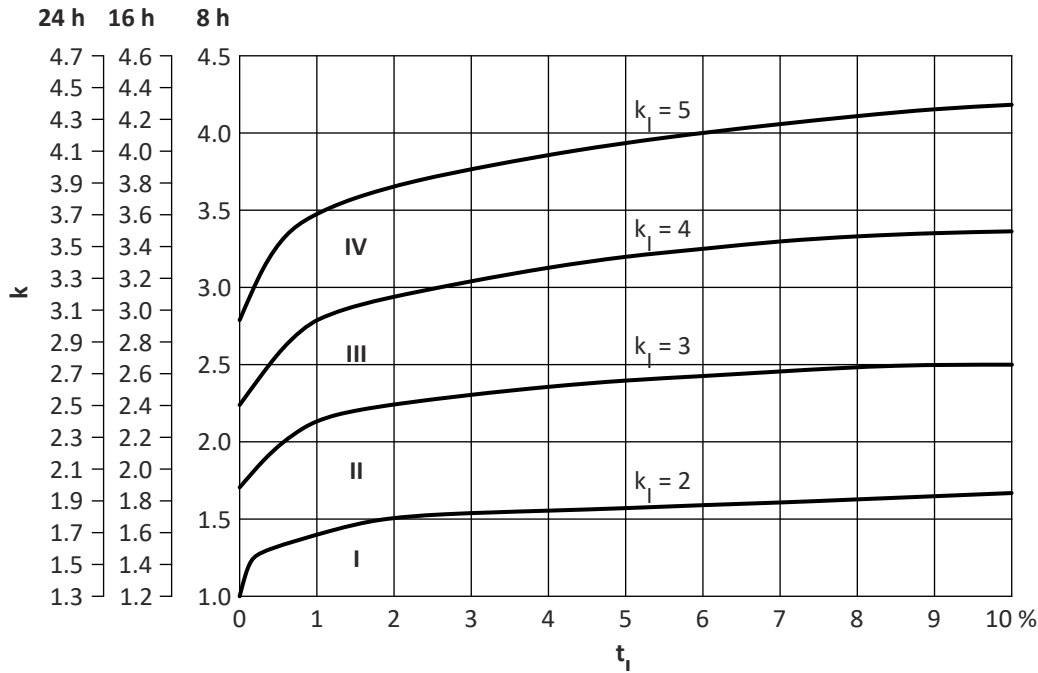
Gearboxes	Gearbox stages		
	1-stage	2-stage	3-stage
	Gearbox efficiency		
	η_{c1}	η_{c1}	η_{c1}
g700-B	0.95	0.94	0.88
g720-B	0.95	0.94	0.88
g730-B	0.95	0.94	-
g780-B	0.94	0.93	-
g850-B	0.95	0.94	-
g860-B	0.95	-	-
g880-B	0.94	0.93	-



Determination of the required gearbox load capacity

Define the required load factor at runtime t_L		
Runtime $t_L \leq 10\%$	Take the load factor k from diagram into account	
Runtime $t_L > 10\%$	Take intensity k_I from calculation into account	
Calculate intensity		
no alternating load	$k_I = M_{L,max} / M_L$	$k_I =$
at alternating load	$k_I = M_{L,max} / M_L \times 1.4$	$k_I =$

Load factor k



Operating mode S1

Calculation of the required drive power			
	Calculation	Result	Unit
Output torque	$M_R \geq M_L / (k_L \times k_H)$	$M_R =$	Nm
Output speed	$n_R \geq n_L / k_E$	$n_R =$	rpm
Drive power	$P_R \geq M_R \times n_R / 9549$	$P_R =$	kW

Check geared servo motor and determine from the selection table			
	Check	Selection	Unit
Drive power	$P_1 \geq P_R$	$P_1 =$	kW
Output torque	$M_2 \geq M_L$	$M_2 =$	Nm
Output speed	$n_{2,th} \geq n_L$	$n_{2,th} =$	rpm
Load capacity of the geared motor	$c \geq k$ $c \geq k_I$	$c =$	
Short-time maximum torque			
no alternating load	$M_{2,max} \geq M_{L,max}$	$M_{2,max} =$	Nm
at alternating load	$M_{2,max} \times 1.5 \geq M_{L,max}$	$M_{2,max} =$	Nm
Ratio		$i =$	

► Selection tables 35



Operating modes S2, S3, and S6

Calculation of the required drive power			
	Calculation	Result	Unit
Output torque	$M_R \geq M_L / (k_L \times k_H)$	$M_R =$	Nm
Output speed	$n_R \geq (n_L \times k_M) / (k_E \times k_{rated})$	$n_R =$	rpm
Drive power	$P_R \geq M_R \times n_R / 9549$	$p_R =$	kW

Check geared servo motor and determine from the selection table			
	Check	Selection	Unit
Drive power	$P_1 \geq P_R$	$p_1 =$	kW
Output torque	$M_2 \geq M_L$	$M_2 =$	Nm
Output speed	$n_2 \geq n_L$	$n_2 =$	rpm
Load capacity of the geared motor	$c \geq k$ $c \geq k_l$	$c =$	
Short-time maximum torque			
no alternating load	$M_{2,max} \geq M_{L,max}$	$M_{2,max} =$	Nm
at alternating load	$M_{2,max} \times 1.5 \geq M_{L,max}$	$M_{2,max} =$	Nm
Ratio		$i =$	

► Selection tables [35](#)

Check servo motor based on the motor torque characteristic		
Gearbox efficiency	$\eta_G = \eta_{c1} - (c - 1) \times 0.01$	$\eta_G =$
All operating points (●)		$i \times n_L$
below the maximum torque characteristic of the servo motor/ inverter combination here, $M_{L,max}$ must be considered		$M_L / (i \times \eta_G)$
Thermally effective operating point (○)		$(i \times n_L \times k_M) / (k_E \times k_{rated})$
below the S1 torque characteristic of the servo motor		$M_L / (k_L \times k_H \times i \times \eta_G)$

► Torque characteristics [419](#)



Final configuration

	Check
Connection dimensions	Output shaft Output flange
Product extensions	Connector/terminal box Brake Feedback Temperature monitoring

More information about the final configuration:

► [The modular system](#) 31

► [Product extensions](#) 379

Surface and corrosion protection

Depending on the ambient conditions, the surface and corrosion protection system (called OKS) offers tailor-made solutions for optimum protection.

Various surface coatings ensure that the motors operate reliably even at high air humidity, in outdoor installation or in the presence of atmospheric impurities. Any color from the "RAL Classic" collection can be chosen for the top coat.



The OKS-XL (extra Large) version requires a check by your responsible Lenze subsidiary.

Surface and corrosion protection (called OKS)	Applications	Type
without OKS (unpainted)	- Indoor installation, no special corrosion protection necessary - Painting by customer	Standard
OKS-G (primed)	Dependent on subsequent top coat applied	Optional
OKS-S (small)	- Standard applications - Internal installation in heated buildings - Air humidity up to 90 %	
OKS-M (medium)	- Internal installation in non-heated buildings - Covered, protected external installation - Air humidity up to 95 %	
OKS-L (large)	- External installation - Air humidity above 95 % - Chemical industrial plants - Food industry	

Surface and corrosion protection	Corrosivity category	Surface coating	Color	Coating thickness
	DIN EN ISO 12944-2	Design		
OKS-G (primed)		2K PUR priming coat		60 ... 90 µm
OKS-S (small)	Comparable to C1	2K-PUR top coat	- Standard: RAL 7012 - Optional: RAL Classic	80 ... 120 µm
OKS-M (medium)	Comparable to C2	2K PUR priming coat		110 ... 160 µm
OKS-L (large)	Comparable to C3	2K-PUR top coat		140 ... 200 µm
OKS-XL (extra large)	Comparable to C4	2K-EP priming coat (two times) 2K-PUR top coat		160 ... 240 µm

Lubricants



The g7x0 and g8x0 planetary gearbox series are lubricated for life.



Mechanical installation

Important notes

- Install the product according to the information in the chapter "Standards and operating conditions".
 - ▶ [Standards and operating conditions](#)  29
- The technical data and the data regarding the supply conditions can be found on the nameplate and in this documentation.
- Ambient media – especially chemically aggressive ones – may damage shaft sealing rings, lacquers and plastics.
- Lenze offers special surface and corrosion protection in this case.



Transport

- Ensure appropriate handling.
- Make sure that all component parts are securely mounted. Secure or remove loose component parts.
- Only use safely fixed transport aids (e.g., eye bolts or support plates).
- Do not damage any components during transport.
- Avoid electrostatic discharges on electronic components and contacts.
- Avoid impacts.
- Check the carrying capacity of the hoists and load handling devices. The weights can be found in the shipping documents.
- Secure the load against tipping and falling down.
- Standing beneath suspended loads is prohibited.



Installation

Mounting surfaces

- The mounting surfaces must be plane, torsionally rigid and free from vibrations.
- The mounting areas must be suited to absorb the forces and torques generated during operation.
- Ensure an unhindered ventilation.
- For versions with a fan, keep a minimum distance of 10 % from the outside diameter of the fan cover in intake direction.



Electrical installation

Important notes

DANGER!

Risk of injury and risk of burns from dangerous voltage

Power terminals may also carry voltage in the switched-off state or when the motor is stopped and may cause life-threatening cardiac arrhythmia and serious burns.

- ▶ Disconnect the product from the mains.
- ▶ Check that the power terminals are deenergized before starting work.

-
- When working on energized products, comply with the applicable national accident prevention regulations.
 - The electrical installation must be carried out according to the appropriate regulations (e.g. cable cross-sections, fuses, PE connection).
 - The manufacturer of the system or machine is responsible for adherence to the limits required in connection with EMC legislation.

Operation on an external inverter

A max. pulse voltage amplitude of $U_{pk} = 1560 \text{ V}$ at the motor terminals must not be exceeded.

Here, the minimum pulse rise time must be $t_r = 0.1 \text{ }\mu\text{s}$.

If it cannot be ruled out that the permissible voltage peaks will be exceeded or that the minimum pulse rise time will not be reached, the following measures must be initiated:

- Reduction of the DC-bus voltage (threshold for brake chopper voltage)
- Use of filters, chokes
- Use of special motor cables



Preparation



The notes for the electrical connection can be found in the enclosed mounting instructions.

EMC-compliant wiring



The EMC-compliant wiring is described in detail in the documentation of the Lenze inverters.



Technical data

Notes regarding the given data

The power values, torques and speeds specified in the configuration are rounded values and apply to

- Operating time per day = 8 hrs (100 % ED)
- Duty class up to 10 switching operations per hour
- Ambient temperature T_V and max. permissible thermal output speed $n_{2,th}$
 - $T_V = -20 \dots +40 \text{ }^\circ\text{C}$
 - $n_{2,th}$ is valid for $T_V = +20 \text{ }^\circ\text{C}$
- Site altitude ≤ 1000 m above mean sea level
- The selection tables indicate the mechanically permissible power levels and torques.
- The ratings apply to the operating mode S1 (acc. to EN 60034).

Selection tables

The selection tables represent the available combinations of gearbox, number of stages, ratio and motor. They only serve as a rough overview.

The following legend shows an example of the layout of the selection tables:

Example

Inverter mains connection 400 V, self-ventilated motors
0.25 kW

Explanation

Voltage of inverter mains connection, motor cooling type
Rated motor power

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2,max}	n _{2,th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
1.7	1350	2.4	11.0	124	0.213	3.000	P20	06C41-	1	2.7
2.5	810	4.8	14.0	124	0.205	5.000	P20	06C41-	1	2.7
3.5	579	5.0	25.0	124	0.209	7.000	P44	06C41-	1	3.2
4.0	579	2.1	8.5	124	0.203	7.000	P20	06C41-	1	2.7

										Mass
										Number of gear stages
										Motor product name
										Gearbox product name
										Ratio
										Moment of inertia
										With feedback, without brake
										Max. permissible output speed in S1 operation
										Max. permissible acceleration torque
										Dependent on inverter
										Load capacity of the gearbox
										c is the ratio of permissible rated torque of the gearbox to the rated torque of the motor (converted to the driven shaft). c must always be higher than the application factor detected for the application k.
										$c = \frac{M_{2,zul}}{M_{1,N} \times i \times \eta_{Getr}} > k$
										Output speed
										Output torque



Motors for inverter mains connection 230 V



The data in the selection tables are given for an inverter mains connection 3x 400 V. These motors are identified via "-" (example MCS06C41-).

In case of an inverter mains connection 1x 230 V, or 3x 230 V, the same data in the selection tables for the following self-ventilated motors with the "L" ID apply (example MCS06C41L).

MCS06		MCS09		MCS12	
Rated power	Product name	Rated power	Product name	Rated power	Product name
P_{rated}		P_{rated}		P_{rated}	
kW		kW		kW	
0.25	MCS06C41L	1.0	MCS09D41L	1.1	MCS12D20L
0.51	MCS06F41L	1.2	MCS09F38L	1.8	MCS12D41L
0.64	MCS06I41L	1.6	MCS09H41L	1.6	MCS12H15L
		1.9	MCS09L41L	2.5	MCS12H30L
				2.8	MCS12L20L

► [Rated data](#) 406

► [Torque characteristics](#) 419

Basic dimensions

In the basic dimensions, the total lengths (L) of the drive with resolver are given.

Note the extra length (ΔL) of the product extensions.

► [Additional lengths](#) 375



Standards and operating conditions

Conformities and approvals

More information and certificates of approval can be found under
[g7x0-B/g8x0-B + MCS bevel planetary geared motors \(Lenze.com\)](https://www.lenze.com/g7x0-B/g8x0-B+MCS+bevel+planetary+geared+motors)

Europe					
Country	Conformity/ approval	Law/standard	Description	Special feature	Product representation
European Union	CE	2006/42/EC	Machinery Directive	Only for safety- relevant components	CE mark
		2011/65/EU	RoHS	-	
		2014/30/EU	EMC Directive		
		2014/35/EU	Low-Voltage Directive		
Great Britain	UKCA	S.I. 2008/1597	The Supply of Machinery (Safety) Regulations 2008	Only for safety- relevant components	UKCA mark
		S.I. 2012/3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	-	
		S.I. 2016/1091	The Electromagnetic Compatibility Regulations 2016		
		S.I. 2016/1101	The Electrical Equipment (Safety) Regulations 2016		

America					
Country	Conformity/ approval	Law/standard	Description	Special feature	Product representation
Canada	CSA	CSA 22.1 No. 100	CSA Standard for Motors and Generators	-	cURus mark
USA	UL	UL 1004-1	UL Standard for Rotating Electrical Machines		

Asia					
Country	Conformity/ approval	Law/standard	Description	Special feature	Product representation
China	-	GB 30253	Minimum allowable values of energy efficiency and energy efficiency grades for permanent magnet synchronous motors	-	CEL mark
		GB/T 26572	Requirements on concentration limits for certain restricted substances in electrical and electronic products		EFUP mark

Protection of persons and device protection

Degree of protection			
-	EN IEC 60529, EN IEC 60034-5	IP54	Self-ventilated: MCS06 ... MCS19
		IP65	Forced ventilated: MCS12 ... MCS19
			Self-ventilated: MCS06 ... MCS19
Temperature class			
-	EN IEC 60034-1	F (155 °C)	Insulation system
Permissible voltage			
-	IEC 60034-18-41	IVIC C	At 500 V
	IEC/TS 60034-25:2007	Limit curve A	Of the pulse voltage

Technical data

Standards and operating conditions
EMC data



EMC data

Noise emission		
-	EN IEC 60034-1	A final overall assessment of the drive system is indispensable
Noise immunity		
-	EN IEC 60034-1	A final overall assessment of the drive system is indispensable

Environmental conditions

Climate			
Storage	EN 60721-3-1:1997	1K3 (-20 ... +40 °C)	>3 months
		1K3 (-20 ... +60 °C)	<3 months
Transport	EN 60721-3-2:1997	2K3 (-20 ... +70 °C)	
Operation	EN 60721-3-3:1995 + A2:1997	3K3 (-10 ... +40 °C)	Operation, without brake
		3K3 (-15 ...+40 °C)	Operation without brake, forced ventilated
		3K3 (-20 ...+40 °C)	Operation without brake, self-ventilated
Site altitude			
0 ... 1000 m amsl	-	Without current derating	
1000 ... 4000 m amsl		Reduce rated output current by 5 %/1000 m	
Air humidity			
-	-	Average relative humidity 85 %	Without condensation



Bevel gearbox g700-B

The modular system

g700-B bevel planetary gearbox with MCS synchronous servo motor

Gearbox		g700-B44	g700-B130	g700-B260
Min. motor assignment		MCS06	MCS06	MCS06
Max. motor assignment		MCS06	MCS12	MCS14
Technical data				
Max. output torque	Nm	44	130	260
Min. input torque	Nm	0.6	0.6	0.6
Max. input torque	Nm	0.6	17	42
Mounting position		Any		
Color		Primed Painted in RAL colors		
Surface and corrosion protection		OKS-G Different types of OKS		
Output shaft				
Solid shaft with featherkey	mm	14 x 30	20 x 36	25 x 50
Smooth solid shaft	mm	14 x 30	20 x 36	25 x 50
Shaft material		Steel		
Shaft sealing ring material		NBR		
Gearbox design		Without foot with centering		
Gearbox stages		1/2/3	1/2/3	1/2/3
Output flange	mm	60	80	120
Lubricant		Standard Food compatible		
Cooling		Self-ventilated Forced ventilated		
Motor connection		Connector Terminal box		
Holding brake		Without With		
Feedback				
Without functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
With functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
Temperature monitoring		MCS06: PT1000 temperature sensor MCS09 ... MCS19: PT1000 temperature sensor and 2x PTC thermistor		

Technical data

Bevel gearbox g700-B
Gearbox data



Gearbox data

g700-B44, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	14.0	16	2
4	19.0	16	2
5	24.0	16	2
7	25.0	16	2
8	18.0	16	2
10	15.0	16	2

g700-B44, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	44.0	18	2
12	44.0	18	3
15	44.0	18	3
16	44.0	18	3
20	44.0	18	3
25	40.0	18	3
32	44.0	18	3
40	40.0	18	3

g700-B44, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
60	44.0	21	3
80	44.0	21	3
100	44.0	21	3

g700-B130, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	40.0	13	4
4	53.0	13	6
5	67.0	13	7
7	65.0	13	8
8	50.0	13	8
10	38.0	13	8



g700-B130, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
9	130	15	7
12	120	15	9
15	110	15	9
16	120	15	10
20	120	15	10
25	110	15	10
32	120	15	10
40	110	15	9
64	50.0	15	8

g700-B130, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
60	110	17	10
80	120	17	10
100	120	17	10
120	110	17	9
160	120	17	10
200	110	17	10
256	120	17	10
320	110	17	9

g700-B260, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
3	80.0	11	10
4	105	11	14
5	130	11	16
8	120	11	18
7	135	11	17
10	95.0	11	17

g700-B260, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
9	210	13	18
15	230	13	20
16	260	13	21
12	260	13	20
20	260	13	21
25	230	13	20
32	260	13	21
40	230	13	20
64	120	13	18

Technical data

Bevel gearbox g700-B
Radial forces and axial forces



g700-B260, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
60	260	15	21
80	260	15	21
100	260	15	21
120	230	15	20
160	260	15	21
200	230	15	21
256	260	15	21
320	230	15	20

Radial forces and axial forces

Gearbox			g700-B44	g700-B44	g700-B44	g700-B130	g700-B130	g700-B130	g700-B260	g700-B260	g700-B260
Number of stages	z		1	2	3	1	2	3	1	2	3
Bearing service life 20000 h											
Speed		rpm	100	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	400	400	400	750	750	750	1750	1750	1750
Axial force	F_{ax}	N	500	500	500	1000	1000	1000	2500	2500	2500
Bearing service life 30000 h											
Speed		rpm	100	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	340	340	340	650	650	650	1500	1500	1500
Axial force	F_{ax}	N	450	450	450	900	900	900	2100	2100	2100
Max. radial force	$F_{\text{rad, max}}$	N	700	700	700	1250	1250	1250	2000	2000	2000
Max. axial force	$F_{\text{ax, max}}$	N	800	800	800	1600	1600	1600	3800	3800	3800



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.0	1013	5.3	19.0	506	0.388	4	B44	06C41-	1	4.0
2.0	1013	5.3	19.0	506	0.388	4	B44	06C41L	1	4.0
2.5	810	5.3	24.0	405	0.376	5	B44	06C41-	1	4.0
2.5	810	5.3	24.0	405	0.376	5	B44	06C41L	1	4.0
3.5	579	5.1	25.0	289	0.365	7	B44	06C41-	1	4.0
3.5	579	5.1	25.0	289	0.365	7	B44	06C41L	1	4.0
4.2	506	4.0	18.0	253	0.363	8	B44	06C41-	1	4.0
4.2	506	4.0	18.0	253	0.363	8	B44	06C41L	1	4.0
5.3	338	5.0	44.0	169	0.486	12	B44	06C41-	2	4.2
5.3	338	5.0	44.0	169	0.486	12	B44	06C41L	2	4.2
5.5	405	2.7	15.0	203	0.361	10	B44	06C41-	1	4.0
5.5	405	2.7	15.0	203	0.361	10	B44	06C41L	1	4.0
6.9	270	4.4	44.0	135	0.372	15	B44	06C41-	2	4.2
6.9	270	4.4	44.0	135	0.372	15	B44	06C41L	2	4.2
7.6	253	4.1	44.0	127	0.381	16	B44	06C41-	2	4.2
7.6	253	4.1	44.0	127	0.381	16	B44	06C41L	2	4.2
10.0	203	3.6	44.0	101	0.371	20	B44	06C41-	2	4.2
10.0	203	3.6	44.0	101	0.371	20	B44	06C41L	2	4.2
13.0	162	2.9	40.0	81.0	0.371	25	B44	06C41-	2	4.2
13.0	162	2.9	40.0	81.0	0.371	25	B44	06C41L	2	4.2
17.0	127	2.5	44.0	63.0	0.362	32	B44	06C41-	2	4.2
17.0	127	2.5	44.0	63.0	0.362	32	B44	06C41L	2	4.2
17.0	101	5.1	110	51.0	1.056	40	B130	06C41-	2	7.3
17.0	101	5.1	110	51.0	1.056	40	B130	06C41L	2	7.3
21.0	101	1.9	40.0	51.0	0.362	40	B44	06C41-	2	4.2
21.0	101	1.9	40.0	51.0	0.362	40	B44	06C41L	2	4.2
27.0	67.5	3.5	110	34.0	1.343	60	B130	06C41-	3	7.8
27.0	67.5	3.5	110	34.0	1.343	60	B130	06C41L	3	7.8
31.0	67.5	1.4	44.0	34.0	0.372	60	B44	06C41-	3	4.4
31.0	67.5	1.4	44.0	34.0	0.372	60	B44	06C41L	3	4.4
31.0	63.3	1.6	50.0	32.0	1.057	64	B130	06C41-	2	7.3
31.0	63.3	1.6	50.0	32.0	1.057	64	B130	06C41L	2	7.3
31.0	63.3	3.7	120	32.0	1.995	64	B260	06C41-	2	16
31.0	63.3	3.7	120	32.0	1.995	64	B260	06C41L	2	16
39.0	50.6	2.9	120	25.0	1.095	80	B130	06C41-	3	7.8
39.0	50.6	2.9	120	25.0	1.095	80	B130	06C41L	3	7.8
40.0	50.6	1.1	44.0	25.0	0.371	80	B44	06C41-	3	4.4
40.0	50.6	1.1	44.0	25.0	0.371	80	B44	06C41L	3	4.4
50.0	40.5	2.4	120	20.0	1.094	100	B130	06C41-	3	7.8
50.0	40.5	2.4	120	20.0	1.094	100	B130	06C41L	3	7.8
51.0	33.8	3.9	230	17.0	2.803	120	B260	06C41-	3	18
51.0	33.8	3.9	230	17.0	2.803	120	B260	06C41L	3	18
58.0	33.8	1.9	110	17.0	1.349	120	B130	06C41-	3	7.8
58.0	33.8	1.9	110	17.0	1.349	120	B130	06C41L	3	7.8
74.0	25.3	3.3	260	13.0	1.997	160	B260	06C41-	3	18
74.0	25.3	3.3	260	13.0	1.997	160	B260	06C41L	3	18
76.0	25.3	1.6	120	13.0	1.056	160	B130	06C41-	3	7.8
76.0	25.3	1.6	120	13.0	1.056	160	B130	06C41L	3	7.8

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
89.0	20.3	1.2	110	10.0	1.056	200	B130	06C41-	3	7.8
89.0	20.3	1.2	110	10.0	1.056	200	B130	06C41L	3	7.8
92.0	20.3	2.5	230	10.0	1.997	200	B260	06C41-	3	18
92.0	20.3	2.5	230	10.0	1.997	200	B260	06C41L	3	18
111	15.8	1.1	120	8.0	1.057	256	B130	06C41-	3	7.8
111	15.8	1.1	120	8.0	1.057	256	B130	06C41L	3	7.8
115	15.8	2.3	260	8.0	1.995	256	B260	06C41-	3	18
115	15.8	2.3	260	8.0	1.995	256	B260	06C41L	3	18
134	12.7	1.7	230	6.0	1.995	320	B260	06C41-	3	18
134	12.7	1.7	230	6.0	1.995	320	B260	06C41L	3	18



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.31 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
1.6	1500	5.7	19.0	750	0.388	4	B44	06C60-	1	4.0
1.6	1500	5.7	19.0	750	0.388	4	B44	06C60L	1	4.0
2.0	1200	5.7	24.0	600	0.376	5	B44	06C60-	1	4.0
2.0	1200	5.7	24.0	600	0.376	5	B44	06C60L	1	4.0
2.9	857	5.5	25.0	429	0.365	7	B44	06C60-	1	4.0
2.9	857	5.5	25.0	429	0.365	7	B44	06C60L	1	4.0
3.4	750	4.8	18.0	375	0.363	8	B44	06C60-	1	4.0
3.4	750	4.8	18.0	375	0.363	8	B44	06C60L	1	4.0
4.2	500	5.3	44.0	250	0.486	12	B44	06C60-	2	4.2
4.2	500	5.3	44.0	250	0.486	12	B44	06C60L	2	4.2
4.5	600	3.3	15.0	300	0.361	10	B44	06C60-	1	4.0
4.5	600	3.3	15.0	300	0.361	10	B44	06C60L	1	4.0
5.6	400	4.7	44.0	200	0.372	15	B44	06C60-	2	4.2
5.6	400	4.7	44.0	200	0.372	15	B44	06C60L	2	4.2
6.2	375	4.4	44.0	188	0.381	16	B44	06C60-	2	4.2
6.2	375	4.4	44.0	188	0.381	16	B44	06C60L	2	4.2
8.1	300	3.8	44.0	150	0.371	20	B44	06C60-	2	4.2
8.1	300	3.8	44.0	150	0.371	20	B44	06C60L	2	4.2
11.0	240	3.2	40.0	120	0.371	25	B44	06C60-	2	4.2
11.0	240	3.2	40.0	120	0.371	25	B44	06C60L	2	4.2
14.0	188	2.8	44.0	94.0	0.362	32	B44	06C60-	2	4.2
14.0	188	2.8	44.0	94.0	0.362	32	B44	06C60L	2	4.2
18.0	150	2.3	40.0	75.0	0.362	40	B44	06C60-	2	4.2
18.0	150	2.3	40.0	75.0	0.362	40	B44	06C60L	2	4.2
20.0	100	4.2	110	50.0	1.343	60	B130	06C60-	3	7.8
20.0	100	4.2	110	50.0	1.343	60	B130	06C60L	3	7.8
26.0	100	1.7	44.0	50.0	0.372	60	B44	06C60-	3	4.4
26.0	100	1.7	44.0	50.0	0.372	60	B44	06C60L	3	4.4
26.0	93.8	2.0	50.0	47.0	1.057	64	B130	06C60-	2	7.3
26.0	93.8	2.0	50.0	47.0	1.057	64	B130	06C60L	2	7.3
30.0	75.0	3.5	120	38.0	1.095	80	B130	06C60-	3	7.8
30.0	75.0	3.5	120	38.0	1.095	80	B130	06C60L	3	7.8
34.0	75.0	1.3	44.0	38.0	0.371	80	B44	06C60-	3	4.4
34.0	75.0	1.3	44.0	38.0	0.371	80	B44	06C60L	3	4.4
41.0	60.0	1.1	44.0	30.0	0.371	100	B44	06C60-	3	4.4
41.0	60.0	1.1	44.0	30.0	0.371	100	B44	06C60L	3	4.4
41.0	60.0	2.9	120	30.0	1.094	100	B130	06C60-	3	7.8
41.0	60.0	2.9	120	30.0	1.094	100	B130	06C60L	3	7.8
49.0	50.0	2.3	110	25.0	1.349	120	B130	06C60-	3	7.8
49.0	50.0	2.3	110	25.0	1.349	120	B130	06C60L	3	7.8
63.0	37.5	1.9	120	19.0	1.056	160	B130	06C60-	3	7.8
63.0	37.5	1.9	120	19.0	1.056	160	B130	06C60L	3	7.8
74.0	30.0	1.5	110	15.0	1.056	200	B130	06C60-	3	7.8
74.0	30.0	1.5	110	15.0	1.056	200	B130	06C60L	3	7.8
92.0	23.4	1.3	120	12.0	1.057	256	B130	06C60-	3	7.8
92.0	23.4	1.3	120	12.0	1.057	256	B130	06C60L	3	7.8
106	18.8	1.0	110	9.0	1.057	320	B130	06C60-	3	7.8
106	18.8	1.0	110	9.0	1.057	320	B130	06C60L	3	7.8

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.0	1350	5.3	40.0	675	1.493	3	B130	06F41-	1	7.1
3.0	1350	5.3	40.0	675	1.493	3	B130	06F41L	1	7.1
3.3	1350	3.3	14.0	675	0.577	3	B44	06F41-	1	4.4
3.3	1350	3.3	14.0	675	0.577	3	B44	06F41L	1	4.4
4.5	1013	2.7	19.0	506	0.468	4	B44	06F41-	1	4.4
4.5	1013	2.7	19.0	506	0.468	4	B44	06F41L	1	4.4
5.6	810	2.7	24.0	405	0.456	5	B44	06F41-	1	4.4
5.6	810	2.7	24.0	405	0.456	5	B44	06F41L	1	4.4
7.9	579	2.6	25.0	289	0.445	7	B44	06F41-	1	4.4
7.9	579	2.6	25.0	289	0.445	7	B44	06F41L	1	4.4
7.9	506	5.5	50.0	253	1.140	8	B130	06F41-	1	7.1
7.9	506	5.5	50.0	253	1.140	8	B130	06F41L	1	7.1
8.9	506	2.0	18.0	253	0.443	8	B44	06F41-	1	4.4
8.9	506	2.0	18.0	253	0.443	8	B44	06F41L	1	4.4
9.3	450	3.1	44.0	225	0.570	9	B44	06F41-	2	4.6
9.3	450	3.1	44.0	225	0.570	9	B44	06F41L	2	4.6
11.0	405	1.4	15.0	203	0.441	10	B44	06F41-	1	4.4
11.0	405	1.4	15.0	203	0.441	10	B44	06F41L	1	4.4
11.0	405	3.4	38.0	203	1.130	10	B130	06F41-	1	7.1
11.0	405	3.4	38.0	203	1.130	10	B130	06F41L	1	7.1
13.0	338	2.5	44.0	169	0.566	12	B44	06F41-	2	4.6
13.0	338	2.5	44.0	169	0.566	12	B44	06F41L	2	4.6
17.0	270	2.2	44.0	135	0.452	15	B44	06F41-	2	4.6
17.0	270	2.2	44.0	135	0.452	15	B44	06F41L	2	4.6
17.0	203	5.4	120	101	1.175	20	B130	06F41-	2	7.7
17.0	203	5.4	120	101	1.175	20	B130	06F41L	2	7.7
18.0	253	2.1	44.0	127	0.461	16	B44	06F41-	2	4.6
18.0	253	2.1	44.0	127	0.461	16	B44	06F41L	2	4.6
22.0	203	1.8	44.0	101	0.451	20	B44	06F41-	2	4.6
22.0	203	1.8	44.0	101	0.451	20	B44	06F41L	2	4.6
24.0	162	4.0	110	81.0	1.174	25	B130	06F41-	2	7.7
24.0	162	4.0	110	81.0	1.174	25	B130	06F41L	2	7.7
27.0	162	1.5	40.0	81.0	0.451	25	B44	06F41-	2	4.6
27.0	162	1.5	40.0	81.0	0.451	25	B44	06F41L	2	4.6
32.0	127	3.4	120	63.0	1.137	32	B130	06F41-	2	7.7
32.0	127	3.4	120	63.0	1.137	32	B130	06F41L	2	7.7
34.0	101	5.3	230	51.0	2.078	40	B260	06F41-	2	17
34.0	101	5.3	230	51.0	2.078	40	B260	06F41L	2	17
35.0	127	1.3	44.0	63.0	0.442	32	B44	06F41-	2	4.6
35.0	127	1.3	44.0	63.0	0.442	32	B44	06F41L	2	4.6
43.0	101	2.6	110	51.0	1.136	40	B130	06F41-	2	7.7
43.0	101	2.6	110	51.0	1.136	40	B130	06F41L	2	7.7
50.0	67.5	4.1	260	34.0	2.901	60	B260	06F41-	3	19
50.0	67.5	4.1	260	34.0	2.901	60	B260	06F41L	3	19
63.0	67.5	1.8	110	34.0	1.423	60	B130	06F41-	3	8.2
63.0	67.5	1.8	110	34.0	1.423	60	B130	06F41L	3	8.2
65.0	63.3	1.9	120	32.0	2.075	64	B260	06F41-	2	17
65.0	63.3	1.9	120	32.0	2.075	64	B260	06F41L	2	17
76.0	50.6	3.1	260	25.0	2.231	80	B260	06F41-	3	19
76.0	50.6	3.1	260	25.0	2.231	80	B260	06F41L	3	19
83.0	50.6	1.5	120	25.0	1.175	80	B130	06F41-	3	8.2



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
83.0	50.6	1.5	120	25.0	1.175	80	B130	06F41L	3	8.2
101	40.5	1.2	120	20.0	1.174	100	B130	06F41-	3	8.2
101	40.5	1.2	120	20.0	1.174	100	B130	06F41L	3	8.2
101	40.5	2.6	260	20.0	2.225	100	B260	06F41-	3	19
101	40.5	2.6	260	20.0	2.225	100	B260	06F41L	3	19
118	33.8	2.0	230	17.0	2.883	120	B260	06F41-	3	19
118	33.8	2.0	230	17.0	2.883	120	B260	06F41L	3	19
156	25.3	1.7	260	13.0	2.077	160	B260	06F41-	3	19
156	25.3	1.7	260	13.0	2.077	160	B260	06F41L	3	19
185	20.3	1.2	230	10.0	2.077	200	B260	06F41-	3	19
185	20.3	1.2	230	10.0	2.077	200	B260	06F41L	3	19
230	15.8	1.1	260	8.0	2.075	256	B260	06F41-	3	19
230	15.8	1.1	260	8.0	2.075	256	B260	06F41L	3	19

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.4	2000	3.8	14.0	1000	0.577	3	B44	06F60-	1	4.4
2.4	2000	3.8	14.0	1000	0.577	3	B44	06F60L	1	4.4
3.3	1500	3.2	19.0	750	0.468	4	B44	06F60-	1	4.4
3.3	1500	3.2	19.0	750	0.468	4	B44	06F60L	1	4.4
4.1	1200	3.2	24.0	600	0.456	5	B44	06F60-	1	4.4
4.1	1200	3.2	24.0	600	0.456	5	B44	06F60L	1	4.4
5.8	857	3.0	25.0	429	0.445	7	B44	06F60-	1	4.4
5.8	857	3.0	25.0	429	0.445	7	B44	06F60L	1	4.4
6.6	667	3.7	44.0	333	0.570	9	B44	06F60-	2	4.6
6.6	667	3.7	44.0	333	0.570	9	B44	06F60L	2	4.6
6.7	750	2.7	18.0	375	0.443	8	B44	06F60-	1	4.4
6.7	750	2.7	18.0	375	0.443	8	B44	06F60L	1	4.4
7.7	600	4.5	38.0	300	1.130	10	B130	06F60-	1	7.1
7.7	600	4.5	38.0	300	1.130	10	B130	06F60L	1	7.1
8.3	600	1.8	15.0	300	0.441	10	B44	06F60-	1	4.4
8.3	600	1.8	15.0	300	0.441	10	B44	06F60L	1	4.4
9.4	500	3.0	44.0	250	0.566	12	B44	06F60-	2	4.6
9.4	500	3.0	44.0	250	0.566	12	B44	06F60L	2	4.6
12.0	400	2.6	44.0	200	0.452	15	B44	06F60-	2	4.6
12.0	400	2.6	44.0	200	0.452	15	B44	06F60L	2	4.6
13.0	375	2.4	44.0	188	0.461	16	B44	06F60-	2	4.6
13.0	375	2.4	44.0	188	0.461	16	B44	06F60L	2	4.6
16.0	240	5.3	110	120	1.174	25	B130	06F60-	2	7.7
16.0	240	5.3	110	120	1.174	25	B130	06F60L	2	7.7
17.0	300	2.1	44.0	150	0.451	20	B44	06F60-	2	4.6
17.0	300	2.1	44.0	150	0.451	20	B44	06F60L	2	4.6
20.0	240	1.8	40.0	120	0.451	25	B44	06F60-	2	4.6
20.0	240	1.8	40.0	120	0.451	25	B44	06F60L	2	4.6
22.0	188	4.5	120	94.0	1.137	32	B130	06F60-	2	7.7
22.0	188	4.5	120	94.0	1.137	32	B130	06F60L	2	7.7
26.0	188	1.5	44.0	94.0	0.442	32	B44	06F60-	2	4.6
26.0	188	1.5	44.0	94.0	0.442	32	B44	06F60L	2	4.6
30.0	150	3.4	110	75.0	1.136	40	B130	06F60-	2	7.7
30.0	150	3.4	110	75.0	1.136	40	B130	06F60L	2	7.7
30.0	100	5.5	260	50.0	2.901	60	B260	06F60-	3	19
30.0	100	5.5	260	50.0	2.901	60	B260	06F60L	3	19
32.0	150	1.3	40.0	75.0	0.442	40	B44	06F60-	2	4.6
32.0	150	1.3	40.0	75.0	0.442	40	B44	06F60L	2	4.6
46.0	93.8	1.1	50.0	47.0	1.137	64	B130	06F60-	2	7.7
46.0	93.8	1.1	50.0	47.0	1.137	64	B130	06F60L	2	7.7
47.0	100	2.3	110	50.0	1.423	60	B130	06F60-	3	8.2
47.0	100	2.3	110	50.0	1.423	60	B130	06F60L	3	8.2
48.0	93.8	2.5	120	47.0	2.075	64	B260	06F60-	2	17
48.0	93.8	2.5	120	47.0	2.075	64	B260	06F60L	2	17
49.0	75.0	4.2	260	38.0	2.231	80	B260	06F60-	3	19
49.0	75.0	4.2	260	38.0	2.231	80	B260	06F60L	3	19
62.0	75.0	1.9	120	38.0	1.175	80	B130	06F60-	3	8.2
62.0	75.0	1.9	120	38.0	1.175	80	B130	06F60L	3	8.2
68.0	60.0	3.4	260	30.0	2.225	100	B260	06F60-	3	19
68.0	60.0	3.4	260	30.0	2.225	100	B260	06F60L	3	19
76.0	60.0	1.6	120	30.0	1.174	100	B130	06F60-	3	8.2



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
76.0	60.0	1.6	120	30.0	1.174	100	B130	06F60L	3	8.2
87.0	50.0	1.3	110	25.0	1.429	120	B130	06F60-	3	8.2
87.0	50.0	1.3	110	25.0	1.429	120	B130	06F60L	3	8.2
89.0	50.0	2.6	230	25.0	2.883	120	B260	06F60-	3	19
89.0	50.0	2.6	230	25.0	2.883	120	B260	06F60L	3	19
114	37.5	1.1	120	19.0	1.136	160	B130	06F60-	3	8.2
114	37.5	1.1	120	19.0	1.136	160	B130	06F60L	3	8.2
117	37.5	2.2	260	19.0	2.077	160	B260	06F60-	3	19
117	37.5	2.2	260	19.0	2.077	160	B260	06F60L	3	19
139	30.0	1.7	230	15.0	2.077	200	B260	06F60-	3	19
139	30.0	1.7	230	15.0	2.077	200	B260	06F60L	3	19
173	23.4	1.5	260	12.0	2.075	256	B260	06F60-	3	19
173	23.4	1.5	260	12.0	2.075	256	B260	06F60L	3	19
202	18.8	1.1	230	9.0	2.075	320	B260	06F60-	3	19
202	18.8	1.1	230	9.0	2.075	320	B260	06F60L	3	19

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.9	1350	4.2	40.0	675	1.573	3	B130	06I41-	1	7.8
3.9	1350	4.2	40.0	675	1.573	3	B130	06I41L	1	7.8
4.2	1350	2.6	14.0	675	0.657	3	B44	06I41-	1	5.1
4.2	1350	2.6	14.0	675	0.657	3	B44	06I41L	1	5.1
4.8	1013	5.9	53.0	506	1.304	4	B130	06I41-	1	7.8
4.8	1013	5.9	53.0	506	1.304	4	B130	06I41L	1	7.8
5.7	1013	2.1	19.0	506	0.548	4	B44	06I41-	1	5.1
5.7	1013	2.1	19.0	506	0.548	4	B44	06I41L	1	5.1
7.1	810	2.1	24.0	405	0.536	5	B44	06I41-	1	5.1
7.1	810	2.1	24.0	405	0.536	5	B44	06I41L	1	5.1
9.9	579	2.1	25.0	289	0.525	7	B44	06I41-	1	5.1
9.9	579	2.1	25.0	289	0.525	7	B44	06I41L	1	5.1
10.0	506	4.4	50.0	253	1.220	8	B130	06I41-	1	7.8
10.0	506	4.4	50.0	253	1.220	8	B130	06I41L	1	7.8
11.0	506	1.6	18.0	253	0.523	8	B44	06I41-	1	5.1
11.0	506	1.6	18.0	253	0.523	8	B44	06I41L	1	5.1
12.0	450	2.5	44.0	225	0.650	9	B44	06I41-	2	5.3
12.0	450	2.5	44.0	225	0.650	9	B44	06I41L	2	5.3
14.0	405	1.1	15.0	203	0.521	10	B44	06I41-	1	5.1
14.0	405	1.1	15.0	203	0.521	10	B44	06I41L	1	5.1
14.0	405	2.7	38.0	203	1.210	10	B130	06I41-	1	7.8
14.0	405	2.7	38.0	203	1.210	10	B130	06I41L	1	7.8
16.0	270	5.3	110	135	1.505	15	B130	06I41-	2	8.4
16.0	270	5.3	110	135	1.505	15	B130	06I41L	2	8.4
17.0	338	2.0	44.0	169	0.646	12	B44	06I41-	2	5.3
17.0	338	2.0	44.0	169	0.646	12	B44	06I41L	2	5.3
17.0	253	5.4	120	127	1.296	16	B130	06I41-	2	8.4
17.0	253	5.4	120	127	1.296	16	B130	06I41L	2	8.4
21.0	270	1.8	44.0	135	0.532	15	B44	06I41-	2	5.3
21.0	270	1.8	44.0	135	0.532	15	B44	06I41L	2	5.3
22.0	253	1.7	44.0	127	0.541	16	B44	06I41-	2	5.3
22.0	253	1.7	44.0	127	0.541	16	B44	06I41L	2	5.3
23.0	203	4.3	120	101	1.255	20	B130	06I41-	2	8.4
23.0	203	4.3	120	101	1.255	20	B130	06I41L	2	8.4
28.0	203	1.4	44.0	101	0.531	20	B44	06I41-	2	5.3
28.0	203	1.4	44.0	101	0.531	20	B44	06I41L	2	5.3
32.0	162	3.2	110	81.0	1.254	25	B130	06I41-	2	8.4
32.0	162	3.2	110	81.0	1.254	25	B130	06I41L	2	8.4
32.0	127	5.9	260	63.0	2.161	32	B260	06I41-	2	17
32.0	127	5.9	260	63.0	2.161	32	B260	06I41L	2	17
34.0	162	1.2	40.0	81.0	0.531	25	B44	06I41-	2	5.3
34.0	162	1.2	40.0	81.0	0.531	25	B44	06I41L	2	5.3
43.0	127	2.7	120	63.0	1.217	32	B130	06I41-	2	8.4
43.0	127	2.7	120	63.0	1.217	32	B130	06I41L	2	8.4
44.0	127	1.0	44.0	63.0	0.522	32	B44	06I41-	2	5.3
44.0	127	1.0	44.0	63.0	0.522	32	B44	06I41L	2	5.3
47.0	101	4.2	230	51.0	2.158	40	B260	06I41-	2	17
47.0	101	4.2	230	51.0	2.158	40	B260	06I41L	2	17
54.0	101	2.0	110	51.0	1.216	40	B130	06I41-	2	8.4
54.0	101	2.0	110	51.0	1.216	40	B130	06I41L	2	8.4
69.0	67.5	3.3	260	34.0	2.981	60	B260	06I41-	3	19



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
69.0	67.5	3.3	260	34.0	2.981	60	B260	06I41L	3	19
78.0	67.5	1.4	110	34.0	1.503	60	B130	06I41-	3	8.9
78.0	67.5	1.4	110	34.0	1.503	60	B130	06I41L	3	8.9
81.0	63.3	1.5	120	32.0	2.155	64	B260	06I41-	2	17
81.0	63.3	1.5	120	32.0	2.155	64	B260	06I41L	2	17
102	50.6	2.5	260	25.0	2.311	80	B260	06I41-	3	19
102	50.6	2.5	260	25.0	2.311	80	B260	06I41L	3	19
103	50.6	1.2	120	25.0	1.255	80	B130	06I41-	3	8.9
103	50.6	1.2	120	25.0	1.255	80	B130	06I41L	3	8.9
128	40.5	2.0	260	20.0	2.305	100	B260	06I41-	3	19
128	40.5	2.0	260	20.0	2.305	100	B260	06I41L	3	19
148	33.8	1.6	230	17.0	2.963	120	B260	06I41-	3	19
148	33.8	1.6	230	17.0	2.963	120	B260	06I41L	3	19
194	25.3	1.3	260	13.0	2.157	160	B260	06I41-	3	19
194	25.3	1.3	260	13.0	2.157	160	B260	06I41L	3	19

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.1	2000	4.7	40.0	1000	1.573	3	B130	06I60-	1	7.8
3.1	2000	4.7	40.0	1000	1.573	3	B130	06I60L	1	7.8
3.3	2000	2.9	14.0	1000	0.657	3	B44	06I60-	1	5.1
3.3	2000	2.9	14.0	1000	0.657	3	B44	06I60L	1	5.1
4.5	1500	2.4	19.0	750	0.548	4	B44	06I60-	1	5.1
4.5	1500	2.4	19.0	750	0.548	4	B44	06I60L	1	5.1
5.7	1200	2.4	24.0	600	0.536	5	B44	06I60-	1	5.1
5.7	1200	2.4	24.0	600	0.536	5	B44	06I60L	1	5.1
7.9	857	2.3	25.0	429	0.525	7	B44	06I60-	1	5.1
7.9	857	2.3	25.0	429	0.525	7	B44	06I60L	1	5.1
7.9	750	5.5	50.0	375	1.220	8	B130	06I60-	1	7.8
7.9	750	5.5	50.0	375	1.220	8	B130	06I60L	1	7.8
8.9	750	2.0	18.0	375	0.523	8	B44	06I60-	1	5.1
8.9	750	2.0	18.0	375	0.523	8	B44	06I60L	1	5.1
9.6	667	2.8	44.0	333	0.650	9	B44	06I60-	2	5.3
9.6	667	2.8	44.0	333	0.650	9	B44	06I60L	2	5.3
11.0	600	1.4	15.0	300	0.521	10	B44	06I60-	1	5.1
11.0	600	1.4	15.0	300	0.521	10	B44	06I60L	1	5.1
11.0	600	3.4	38.0	300	1.210	10	B130	06I60-	1	7.8
11.0	600	3.4	38.0	300	1.210	10	B130	06I60L	1	7.8
13.0	500	2.2	44.0	250	0.646	12	B44	06I60-	2	5.3
13.0	500	2.2	44.0	250	0.646	12	B44	06I60L	2	5.3
17.0	400	2.0	44.0	200	0.532	15	B44	06I60-	2	5.3
17.0	400	2.0	44.0	200	0.532	15	B44	06I60L	2	5.3
17.0	300	5.3	120	150	1.255	20	B130	06I60-	2	8.4
17.0	300	5.3	120	150	1.255	20	B130	06I60L	2	8.4
18.0	375	1.8	44.0	188	0.541	16	B44	06I60-	2	5.3
18.0	375	1.8	44.0	188	0.541	16	B44	06I60L	2	5.3
22.0	300	1.6	44.0	150	0.531	20	B44	06I60-	2	5.3
22.0	300	1.6	44.0	150	0.531	20	B44	06I60L	2	5.3
24.0	240	4.0	110	120	1.254	25	B130	06I60-	2	8.4
24.0	240	4.0	110	120	1.254	25	B130	06I60L	2	8.4
27.0	240	1.3	40.0	120	0.531	25	B44	06I60-	2	5.3
27.0	240	1.3	40.0	120	0.531	25	B44	06I60L	2	5.3
32.0	188	3.4	120	94.0	1.217	32	B130	06I60-	2	8.4
32.0	188	3.4	120	94.0	1.217	32	B130	06I60L	2	8.4
34.0	150	5.3	230	75.0	2.158	40	B260	06I60-	2	17
34.0	150	5.3	230	75.0	2.158	40	B260	06I60L	2	17
35.0	188	1.2	44.0	94.0	0.522	32	B44	06I60-	2	5.3
35.0	188	1.2	44.0	94.0	0.522	32	B44	06I60L	2	5.3
43.0	150	2.6	110	75.0	1.216	40	B130	06I60-	2	8.4
43.0	150	2.6	110	75.0	1.216	40	B130	06I60L	2	8.4
50.0	100	4.1	260	50.0	2.981	60	B260	06I60-	3	19
50.0	100	4.1	260	50.0	2.981	60	B260	06I60L	3	19
63.0	100	1.8	110	50.0	1.503	60	B130	06I60-	3	8.9
63.0	100	1.8	110	50.0	1.503	60	B130	06I60L	3	8.9
65.0	93.8	1.9	120	47.0	2.155	64	B260	06I60-	2	17
65.0	93.8	1.9	120	47.0	2.155	64	B260	06I60L	2	17
76.0	75.0	3.1	260	38.0	2.311	80	B260	06I60-	3	19
76.0	75.0	3.1	260	38.0	2.311	80	B260	06I60L	3	19
83.0	75.0	1.5	120	38.0	1.255	80	B130	06I60-	3	8.9



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
83.0	75.0	1.5	120	38.0	1.255	80	B130	06I60L	3	8.9
101	60.0	1.2	120	30.0	1.254	100	B130	06I60-	3	8.9
101	60.0	1.2	120	30.0	1.254	100	B130	06I60L	3	8.9
101	60.0	2.6	260	30.0	2.305	100	B260	06I60-	3	19
101	60.0	2.6	260	30.0	2.305	100	B260	06I60L	3	19
118	50.0	2.0	230	25.0	2.963	120	B260	06I60-	3	19
118	50.0	2.0	230	25.0	2.963	120	B260	06I60L	3	19
156	37.5	1.7	260	19.0	2.157	160	B260	06I60-	3	19
156	37.5	1.7	260	19.0	2.157	160	B260	06I60L	3	19
185	30.0	1.2	230	15.0	2.157	200	B260	06I60-	3	19
185	30.0	1.2	230	15.0	2.157	200	B260	06I60L	3	19
230	23.4	1.1	260	12.0	2.155	256	B260	06I60-	3	19
230	23.4	1.1	260	12.0	2.155	256	B260	06I60L	3	19

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.4	1350	2.7	40.0	675	2.373	3	B130	09D41-	1	9.2
6.4	1350	2.7	40.0	675	2.373	3	B130	09D41L	1	9.3
8.1	1013	3.9	53.0	506	2.104	4	B130	09D41-	1	9.2
8.1	1013	3.9	53.0	506	2.104	4	B130	09D41L	1	9.3
10.0	810	4.2	67.0	405	2.073	5	B130	09D41-	1	9.2
10.0	810	4.2	67.0	405	2.073	5	B130	09D41L	1	9.3
14.0	579	4.3	65.0	289	2.029	7	B130	09D41-	1	9.2
14.0	579	4.3	65.0	289	2.029	7	B130	09D41L	1	9.3
16.0	450	4.6	130	225	2.332	9	B130	09D41-	2	9.8
16.0	450	4.6	130	225	2.332	9	B130	09D41L	2	9.9
17.0	506	2.9	50.0	253	2.020	8	B130	09D41-	1	9.2
17.0	506	2.9	50.0	253	2.020	8	B130	09D41L	1	9.3
20.0	405	4.4	95.0	203	2.920	10	B260	09D41-	1	17
20.0	405	4.4	95.0	203	2.920	10	B260	09D41L	1	17
21.0	405	1.8	38.0	203	2.010	10	B130	09D41-	1	9.2
21.0	405	1.8	38.0	203	2.010	10	B130	09D41L	1	9.3
21.0	338	4.4	120	169	2.309	12	B130	09D41-	2	9.8
21.0	338	4.4	120	169	2.309	12	B130	09D41L	2	9.9
29.0	270	3.4	110	135	2.305	15	B130	09D41-	2	9.8
29.0	270	3.4	110	135	2.305	15	B130	09D41L	2	9.9
31.0	253	3.5	120	127	2.096	16	B130	09D41-	2	9.8
31.0	253	3.5	120	127	2.096	16	B130	09D41L	2	9.9
41.0	203	2.8	120	101	2.055	20	B130	09D41-	2	9.8
41.0	203	2.8	120	101	2.055	20	B130	09D41L	2	9.9
45.0	162	4.4	230	81.0	3.107	25	B260	09D41-	2	19
45.0	162	4.4	230	81.0	3.107	25	B260	09D41L	2	19
53.0	162	2.1	110	81.0	2.054	25	B130	09D41-	2	9.8
53.0	162	2.1	110	81.0	2.054	25	B130	09D41L	2	9.9
60.0	127	3.8	260	63.0	2.961	32	B260	09D41-	2	19
60.0	127	3.8	260	63.0	2.961	32	B260	09D41L	2	19
68.0	127	1.8	120	63.0	2.017	32	B130	09D41-	2	9.8
68.0	127	1.8	120	63.0	2.017	32	B130	09D41L	2	9.9
82.0	101	2.8	230	51.0	2.958	40	B260	09D41-	2	19
82.0	101	2.8	230	51.0	2.958	40	B260	09D41L	2	19
83.0	101	1.3	110	51.0	2.016	40	B130	09D41-	2	9.8
83.0	101	1.3	110	51.0	2.016	40	B130	09D41L	2	9.9
121	67.5	2.1	260	34.0	3.781	60	B260	09D41-	3	21
121	67.5	2.1	260	34.0	3.781	60	B260	09D41L	3	21
160	50.6	1.6	260	25.0	3.111	80	B260	09D41-	3	21
160	50.6	1.6	260	25.0	3.111	80	B260	09D41L	3	21
196	40.5	1.3	260	20.0	3.105	100	B260	09D41-	3	21
196	40.5	1.3	260	20.0	3.105	100	B260	09D41L	3	21
226	33.8	1.0	230	17.0	3.763	120	B260	09D41-	3	21
226	33.8	1.0	230	17.0	3.763	120	B260	09D41L	3	21



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.9	2000	3.1	40.0	1000	2.373	3	B130	09D60-	1	9.2
4.9	2000	3.1	40.0	1000	2.373	3	B130	09D60L	1	9.3
6.2	1500	4.3	53.0	750	2.104	4	B130	09D60-	1	9.2
6.2	1500	4.3	53.0	750	2.104	4	B130	09D60L	1	9.3
7.7	1200	4.7	67.0	600	2.073	5	B130	09D60-	1	9.2
7.7	1200	4.7	67.0	600	2.073	5	B130	09D60L	1	9.3
11.0	857	5.1	65.0	429	2.029	7	B130	09D60-	1	9.2
11.0	857	5.1	65.0	429	2.029	7	B130	09D60L	1	9.3
12.0	667	5.2	130	333	2.332	9	B130	09D60-	2	9.8
12.0	667	5.2	130	333	2.332	9	B130	09D60L	2	9.9
13.0	750	3.7	50.0	375	2.020	8	B130	09D60-	1	9.2
13.0	750	3.7	50.0	375	2.020	8	B130	09D60L	1	9.3
14.0	650	4.2	80.0	325	6.846	3	B260	12D20-	1	19
14.0	650	4.2	80.0	325	6.846	3	B260	12D20L	1	19
15.0	600	5.6	95.0	300	2.920	10	B260	09D60-	1	17
15.0	600	5.6	95.0	300	2.920	10	B260	09D60L	1	17
16.0	650	1.4	40.0	325	5.273	3	B130	12D20-	1	11
16.0	650	1.4	40.0	325	5.273	3	B130	12D20L	1	12
16.0	500	5.0	120	250	2.309	12	B130	09D60-	2	9.8
16.0	500	5.0	120	250	2.309	12	B130	09D60L	2	9.9
17.0	600	2.3	38.0	300	2.010	10	B130	09D60-	1	9.2
17.0	600	2.3	38.0	300	2.010	10	B130	09D60L	1	9.3
19.0	488	4.7	105	244	6.276	4	B260	12D20-	1	19
19.0	488	4.7	105	244	6.276	4	B260	12D20L	1	19
21.0	488	2.1	53.0	244	5.004	4	B130	12D20-	1	11
21.0	488	2.1	53.0	244	5.004	4	B130	12D20L	1	12
21.0	400	4.2	110	200	2.305	15	B130	09D60-	2	9.8
21.0	400	4.2	110	200	2.305	15	B130	09D60L	2	9.9
23.0	390	5.0	130	195	6.074	5	B260	12D20-	1	19
23.0	390	5.0	130	195	6.074	5	B260	12D20L	1	19
23.0	375	4.1	120	188	2.096	16	B130	09D60-	2	9.8
23.0	375	4.1	120	188	2.096	16	B130	09D60L	2	9.9
26.0	390	2.2	67.0	195	4.973	5	B130	12D20-	1	11
26.0	390	2.2	67.0	195	4.973	5	B130	12D20L	1	12
30.0	300	3.5	120	150	2.055	20	B130	09D60-	2	9.8
30.0	300	3.5	120	150	2.055	20	B130	09D60L	2	9.9
31.0	240	5.6	230	120	3.107	25	B260	09D60-	2	19
31.0	240	5.6	230	120	3.107	25	B260	09D60L	2	19
34.0	279	3.7	135	139	5.905	7	B260	12D20-	1	19
34.0	279	3.7	135	139	5.905	7	B260	12D20L	1	19
37.0	279	1.8	65.0	139	4.929	7	B130	12D20-	1	11
37.0	279	1.8	65.0	139	4.929	7	B130	12D20L	1	12
39.0	217	4.0	210	108	6.773	9	B260	12D20-	2	21
39.0	217	4.0	210	108	6.773	9	B260	12D20L	2	21
40.0	240	2.7	110	120	2.054	25	B130	09D60-	2	9.8
40.0	240	2.7	110	120	2.054	25	B130	09D60L	2	9.9
41.0	244	1.2	50.0	122	4.920	8	B130	12D20-	1	11
41.0	244	1.2	50.0	122	4.920	8	B130	12D20L	1	12
41.0	244	2.9	120	122	5.873	8	B260	12D20-	1	19
41.0	244	2.9	120	122	5.873	8	B260	12D20L	1	19
42.0	188	4.9	260	94.0	2.961	32	B260	09D60-	2	19

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
42.0	188	4.9	260	94.0	2.961	32	B260	09D60L	2	19
45.0	217	2.4	130	108	5.232	9	B130	12D20-	2	12
45.0	217	2.4	130	108	5.232	9	B130	12D20L	2	12
52.0	195	1.8	95.0	98.0	5.820	10	B260	12D20-	1	19
52.0	195	1.8	95.0	98.0	5.820	10	B260	12D20L	1	19
52.0	163	4.2	260	81.0	6.708	12	B260	12D20-	2	21
52.0	163	4.2	260	81.0	6.708	12	B260	12D20L	2	21
53.0	188	2.3	120	94.0	2.017	32	B130	09D60-	2	9.8
53.0	188	2.3	120	94.0	2.017	32	B130	09D60L	2	9.9
60.0	150	3.5	230	75.0	2.958	40	B260	09D60-	2	19
60.0	150	3.5	230	75.0	2.958	40	B260	09D60L	2	19
62.0	163	1.9	120	81.0	5.209	12	B130	12D20-	2	12
62.0	163	1.9	120	81.0	5.209	12	B130	12D20L	2	12
65.0	150	1.7	110	75.0	2.016	40	B130	09D60-	2	9.8
65.0	150	1.7	110	75.0	2.016	40	B130	09D60L	2	9.9
72.0	130	3.0	230	65.0	6.687	15	B260	12D20-	2	21
72.0	130	3.0	230	65.0	6.687	15	B260	12D20L	2	21
76.0	122	3.1	260	61.0	6.188	16	B260	12D20-	2	21
76.0	122	3.1	260	61.0	6.188	16	B260	12D20L	2	21
77.0	130	1.4	110	65.0	5.205	15	B130	12D20-	2	12
77.0	130	1.4	110	65.0	5.205	15	B130	12D20L	2	12
82.0	122	1.5	120	61.0	4.996	16	B130	12D20-	2	12
82.0	122	1.5	120	61.0	4.996	16	B130	12D20L	2	12
89.0	100	2.7	260	50.0	3.781	60	B260	09D60-	3	21
89.0	100	2.7	260	50.0	3.781	60	B260	09D60L	3	21
94.0	100	1.2	110	50.0	2.303	60	B130	09D60-	3	10
94.0	100	1.2	110	50.0	2.303	60	B130	09D60L	3	10
97.0	93.8	1.2	120	47.0	2.955	64	B260	09D60-	2	19
97.0	93.8	1.2	120	47.0	2.955	64	B260	09D60L	2	19
99.0	97.5	2.5	260	49.0	6.015	20	B260	12D20-	2	21
99.0	97.5	2.5	260	49.0	6.015	20	B260	12D20L	2	21
102	97.5	1.2	120	49.0	4.955	20	B130	12D20-	2	12
102	97.5	1.2	120	49.0	4.955	20	B130	12D20L	2	12
125	75.0	2.1	260	38.0	3.111	80	B260	09D60-	3	21
125	75.0	2.1	260	38.0	3.111	80	B260	09D60L	3	21
127	78.0	1.8	230	39.0	6.007	25	B260	12D20-	2	21
127	78.0	1.8	230	39.0	6.007	25	B260	12D20L	2	21
153	60.0	1.7	260	30.0	3.105	100	B260	09D60-	3	21
153	60.0	1.7	260	30.0	3.105	100	B260	09D60L	3	21
162	60.9	1.6	260	30.0	5.861	32	B260	12D20-	2	21
162	60.9	1.6	260	30.0	5.861	32	B260	12D20L	2	21
177	50.0	1.3	230	25.0	3.763	120	B260	09D60-	3	21
177	50.0	1.3	230	25.0	3.763	120	B260	09D60L	3	21
200	48.8	1.2	230	24.0	5.858	40	B260	12D20-	2	21
200	48.8	1.2	230	24.0	5.858	40	B260	12D20L	2	21
233	37.5	1.1	260	19.0	2.957	160	B260	09D60-	3	21
233	37.5	1.1	260	19.0	2.957	160	B260	09D60L	3	21



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.8	1250	2.1	40.0	625	2.773	3	B130	09F38-	1	10
8.8	1250	2.1	40.0	625	2.773	3	B130	09F38L	1	10
11.0	938	3.0	53.0	469	2.504	4	B130	09F38-	1	10
11.0	938	3.0	53.0	469	2.504	4	B130	09F38L	1	10
14.0	750	3.2	67.0	375	2.473	5	B130	09F38-	1	10
14.0	750	3.2	67.0	375	2.473	5	B130	09F38L	1	10
19.0	417	5.9	210	208	4.273	9	B260	09F38-	2	20
19.0	417	5.9	210	208	4.273	9	B260	09F38L	2	20
20.0	536	3.2	65.0	268	2.429	7	B130	09F38-	1	10
20.0	536	3.2	65.0	268	2.429	7	B130	09F38L	1	10
21.0	469	5.1	120	234	3.373	8	B260	09F38-	1	18
21.0	469	5.1	120	234	3.373	8	B260	09F38L	1	18
23.0	469	2.1	50.0	234	2.420	8	B130	09F38-	1	10
23.0	469	2.1	50.0	234	2.420	8	B130	09F38L	1	10
23.0	417	3.5	130	208	2.732	9	B130	09F38-	2	11
23.0	417	3.5	130	208	2.732	9	B130	09F38L	2	11
28.0	375	3.3	95.0	188	3.320	10	B260	09F38-	1	18
28.0	375	3.3	95.0	188	3.320	10	B260	09F38L	1	18
29.0	375	1.3	38.0	188	2.410	10	B130	09F38-	1	10
29.0	375	1.3	38.0	188	2.410	10	B130	09F38L	1	10
31.0	313	3.3	120	156	2.709	12	B130	09F38-	2	11
31.0	313	3.3	120	156	2.709	12	B130	09F38L	2	11
33.0	250	5.3	230	125	4.187	15	B260	09F38-	2	20
33.0	250	5.3	230	125	4.187	15	B260	09F38L	2	20
34.0	234	5.6	260	117	3.688	16	B260	09F38-	2	20
34.0	234	5.6	260	117	3.688	16	B260	09F38L	2	20
42.0	250	2.5	110	125	2.705	15	B130	09F38-	2	11
42.0	250	2.5	110	125	2.705	15	B130	09F38L	2	11
45.0	234	2.6	120	117	2.496	16	B130	09F38-	2	11
45.0	234	2.6	120	117	2.496	16	B130	09F38L	2	11
47.0	188	4.5	260	94.0	3.515	20	B260	09F38-	2	20
47.0	188	4.5	260	94.0	3.515	20	B260	09F38L	2	20
58.0	188	2.1	120	94.0	2.455	20	B130	09F38-	2	11
58.0	188	2.1	120	94.0	2.455	20	B130	09F38L	2	11
66.0	150	3.2	230	75.0	3.507	25	B260	09F38-	2	20
66.0	150	3.2	230	75.0	3.507	25	B260	09F38L	2	20
71.0	150	1.5	110	75.0	2.454	25	B130	09F38-	2	11
71.0	150	1.5	110	75.0	2.454	25	B130	09F38L	2	11
87.0	117	2.9	260	59.0	3.361	32	B260	09F38-	2	20
87.0	117	2.9	260	59.0	3.361	32	B260	09F38L	2	20
91.0	117	1.3	120	59.0	2.417	32	B130	09F38-	2	11
91.0	117	1.3	120	59.0	2.417	32	B130	09F38L	2	11
113	93.8	2.0	230	47.0	3.358	40	B260	09F38-	2	20
113	93.8	2.0	230	47.0	3.358	40	B260	09F38L	2	20
164	62.5	1.6	260	31.0	4.181	60	B260	09F38-	3	22
164	62.5	1.6	260	31.0	4.181	60	B260	09F38L	3	22
216	46.9	1.2	260	23.0	3.511	80	B260	09F38-	3	22
216	46.9	1.2	260	23.0	3.511	80	B260	09F38L	3	22

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
26.0	500	2.8	80.0	250	10.946	3	B260	14D15-	1	41
34.0	375	3.0	105	188	10.376	4	B260	14D15-	1	41
42.0	300	3.0	130	150	10.174	5	B260	14D15-	1	41
61.0	214	2.2	135	107	10.005	7	B260	14D15-	1	41
70.0	188	1.7	120	94.0	9.973	8	B260	14D15-	1	41
74.0	167	2.6	210	83.0	10.873	9	B260	14D15-	2	43
86.0	150	1.1	95.0	75.0	9.920	10	B260	14D15-	1	41
100	125	2.5	260	63.0	10.808	12	B260	14D15-	2	43
130	100	1.8	230	50.0	10.787	15	B260	14D15-	2	43
138	93.8	1.9	260	47.0	10.288	16	B260	14D15-	2	43
171	75.0	1.5	260	38.0	10.115	20	B260	14D15-	2	43
212	60.0	1.1	230	30.0	10.107	25	B260	14D15-	2	43



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.8	2000	2.3	40.0	1000	2.773	3	B130	09F60-	1	10
6.8	2000	2.3	40.0	1000	2.773	3	B130	09F60L	1	10
8.7	1500	3.3	53.0	750	2.504	4	B130	09F60-	1	10
8.7	1500	3.3	53.0	750	2.504	4	B130	09F60L	1	10
11.0	1200	3.5	67.0	600	2.473	5	B130	09F60-	1	10
11.0	1200	3.5	67.0	600	2.473	5	B130	09F60L	1	10
15.0	857	3.8	65.0	429	2.429	7	B130	09F60-	1	10
15.0	857	3.8	65.0	429	2.429	7	B130	09F60L	1	10
17.0	667	3.9	130	333	2.732	9	B130	09F60-	2	11
17.0	667	3.9	130	333	2.732	9	B130	09F60L	2	11
18.0	750	2.8	50.0	375	2.420	8	B130	09F60-	1	10
18.0	750	2.8	50.0	375	2.420	8	B130	09F60L	1	10
21.0	600	4.2	95.0	300	3.320	10	B260	09F60-	1	18
21.0	600	4.2	95.0	300	3.320	10	B260	09F60L	1	18
22.0	600	1.7	38.0	300	2.410	10	B130	09F60-	1	10
22.0	600	1.7	38.0	300	2.410	10	B130	09F60L	1	10
24.0	500	3.8	120	250	2.709	12	B130	09F60-	2	11
24.0	500	3.8	120	250	2.709	12	B130	09F60L	2	11
31.0	400	3.2	110	200	2.705	15	B130	09F60-	2	11
31.0	400	3.2	110	200	2.705	15	B130	09F60L	2	11
32.0	300	5.8	260	150	3.515	20	B260	09F60-	2	20
32.0	300	5.8	260	150	3.515	20	B260	09F60L	2	20
33.0	375	3.1	120	188	2.496	16	B130	09F60-	2	11
33.0	375	3.1	120	188	2.496	16	B130	09F60L	2	11
43.0	300	2.7	120	150	2.455	20	B130	09F60-	2	11
43.0	300	2.7	120	150	2.455	20	B130	09F60L	2	11
47.0	240	4.2	230	120	3.507	25	B260	09F60-	2	20
47.0	240	4.2	230	120	3.507	25	B260	09F60L	2	20
55.0	240	2.0	110	120	2.454	25	B130	09F60-	2	11
55.0	240	2.0	110	120	2.454	25	B130	09F60L	2	11
63.0	188	3.7	260	94.0	3.361	32	B260	09F60-	2	20
63.0	188	3.7	260	94.0	3.361	32	B260	09F60L	2	20
71.0	188	1.7	120	94.0	2.417	32	B130	09F60-	2	11
71.0	188	1.7	120	94.0	2.417	32	B130	09F60L	2	11
86.0	150	1.3	110	75.0	2.416	40	B130	09F60-	2	11
86.0	150	1.3	110	75.0	2.416	40	B130	09F60L	2	11
86.0	150	2.6	230	75.0	3.358	40	B260	09F60-	2	20
86.0	150	2.6	230	75.0	3.358	40	B260	09F60L	2	20
127	100	2.1	260	50.0	4.181	60	B260	09F60-	3	22
127	100	2.1	260	50.0	4.181	60	B260	09F60L	3	22
167	75.0	1.6	260	38.0	3.511	80	B260	09F60-	3	22
167	75.0	1.6	260	38.0	3.511	80	B260	09F60L	3	22
204	60.0	1.3	260	30.0	3.505	100	B260	09F60-	3	22
204	60.0	1.3	260	30.0	3.505	100	B260	09F60L	3	22

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
9.7	1350	4.8	80.0	675	4.746	3	B260	09H41-	1	19
9.7	1350	4.8	80.0	675	4.746	3	B260	09H41L	1	19
11.0	1350	1.7	40.0	675	3.173	3	B130	09H41-	1	11
11.0	1350	1.7	40.0	675	3.173	3	B130	09H41L	1	11
13.0	1013	5.3	105	506	4.176	4	B260	09H41-	1	19
13.0	1013	5.3	105	506	4.176	4	B260	09H41L	1	19
14.0	1013	2.4	53.0	506	2.904	4	B130	09H41-	1	11
14.0	1013	2.4	53.0	506	2.904	4	B130	09H41L	1	11
15.0	810	5.7	130	405	3.974	5	B260	09H41-	1	19
15.0	810	5.7	130	405	3.974	5	B260	09H41L	1	19
18.0	810	2.5	67.0	405	2.873	5	B130	09H41-	1	11
18.0	810	2.5	67.0	405	2.873	5	B130	09H41L	1	11
22.0	579	5.3	135	289	3.805	7	B260	09H41-	1	19
22.0	579	5.3	135	289	3.805	7	B260	09H41L	1	19
25.0	579	2.6	65.0	289	2.829	7	B130	09H41-	1	11
25.0	579	2.6	65.0	289	2.829	7	B130	09H41L	1	11
26.0	450	4.7	210	225	4.673	9	B260	09H41-	2	21
26.0	450	4.7	210	225	4.673	9	B260	09H41L	2	21
27.0	506	4.2	120	253	3.773	8	B260	09H41-	1	19
27.0	506	4.2	120	253	3.773	8	B260	09H41L	1	19
28.0	500	2.5	80.0	250	10.146	3	B260	12H15-	1	22
28.0	500	2.5	80.0	250	10.146	3	B260	12H15L	1	22
29.0	506	1.8	50.0	253	2.820	8	B130	09H41-	1	11
29.0	506	1.8	50.0	253	2.820	8	B130	09H41L	1	11
30.0	450	2.8	130	225	3.132	9	B130	09H41-	2	12
30.0	450	2.8	130	225	3.132	9	B130	09H41L	2	12
35.0	405	1.1	38.0	203	2.810	10	B130	09H41-	1	11
35.0	405	1.1	38.0	203	2.810	10	B130	09H41L	1	11
35.0	405	2.7	95.0	203	3.720	10	B260	09H41-	1	19
35.0	405	2.7	95.0	203	3.720	10	B260	09H41L	1	19
37.0	375	2.8	105	188	9.576	4	B260	12H15-	1	22
37.0	375	2.8	105	188	9.576	4	B260	12H15L	1	22
41.0	338	2.7	120	169	3.109	12	B130	09H41-	2	12
41.0	338	2.7	120	169	3.109	12	B130	09H41L	2	12
44.0	270	4.3	230	135	4.587	15	B260	09H41-	2	21
44.0	270	4.3	230	135	4.587	15	B260	09H41L	2	21
46.0	253	4.6	260	127	4.088	16	B260	09H41-	2	21
46.0	253	4.6	260	127	4.088	16	B260	09H41L	2	21
47.0	300	2.7	130	150	9.374	5	B260	12H15-	1	22
47.0	300	2.7	130	150	9.374	5	B260	12H15L	1	22
53.0	270	2.1	110	135	3.105	15	B130	09H41-	2	12
53.0	270	2.1	110	135	3.105	15	B130	09H41L	2	12
57.0	253	2.1	120	127	2.896	16	B130	09H41-	2	12
57.0	253	2.1	120	127	2.896	16	B130	09H41L	2	12
63.0	203	3.7	260	101	3.915	20	B260	09H41-	2	21
63.0	203	3.7	260	101	3.915	20	B260	09H41L	2	21
67.0	214	2.0	135	107	9.205	7	B260	12H15-	1	22
67.0	214	2.0	135	107	9.205	7	B260	12H15L	1	22
71.0	203	1.7	120	101	2.855	20	B130	09H41-	2	12
71.0	203	1.7	120	101	2.855	20	B130	09H41L	2	12
76.0	188	1.6	120	94.0	9.173	8	B260	12H15-	1	22



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
76.0	188	1.6	120	94.0	9.173	8	B260	12H15L	1	22
82.0	167	2.4	210	83.0	10.073	9	B260	12H15-	2	24
82.0	167	2.4	210	83.0	10.073	9	B260	12H15L	2	24
85.0	162	2.6	230	81.0	3.907	25	B260	09H41-	2	21
85.0	162	2.6	230	81.0	3.907	25	B260	09H41L	2	21
87.0	162	1.3	110	81.0	2.854	25	B130	09H41-	2	12
87.0	162	1.3	110	81.0	2.854	25	B130	09H41L	2	12
94.0	150	1.0	95.0	75.0	9.120	10	B260	12H15-	1	22
94.0	150	1.0	95.0	75.0	9.120	10	B260	12H15L	1	22
110	125	2.3	260	63.0	10.008	12	B260	12H15-	2	24
110	125	2.3	260	63.0	10.008	12	B260	12H15L	2	24
112	127	1.1	120	63.0	2.817	32	B130	09H41-	2	12
112	127	1.1	120	63.0	2.817	32	B130	09H41L	2	12
112	127	2.3	260	63.0	3.761	32	B260	09H41-	2	21
112	127	2.3	260	63.0	3.761	32	B260	09H41L	2	21
138	101	1.7	230	51.0	3.758	40	B260	09H41-	2	21
138	101	1.7	230	51.0	3.758	40	B260	09H41L	2	21
141	100	1.6	230	50.0	9.987	15	B260	12H15-	2	24
141	100	1.6	230	50.0	9.987	15	B260	12H15L	2	24
150	93.8	1.7	260	47.0	9.488	16	B260	12H15-	2	24
150	93.8	1.7	260	47.0	9.488	16	B260	12H15L	2	24
186	75.0	1.4	260	38.0	9.315	20	B260	12H15-	2	24
186	75.0	1.4	260	38.0	9.315	20	B260	12H15L	2	24
201	67.5	1.3	260	34.0	4.581	60	B260	09H41-	3	23
201	67.5	1.3	260	34.0	4.581	60	B260	09H41L	3	23
230	60.0	1.0	230	30.0	9.307	25	B260	12H15-	2	24
230	60.0	1.0	230	30.0	9.307	25	B260	12H15L	2	24

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1350	4.3	80.0	675	6.846	3	B260	12D41-	1	19
11.0	1350	4.3	80.0	675	6.846	3	B260	12D41L	1	19
12.0	1350	1.5	40.0	675	5.273	3	B130	12D41-	1	11
12.0	1350	1.5	40.0	675	5.273	3	B130	12D41L	1	12
15.0	1013	4.7	105	506	6.276	4	B260	12D41-	1	19
15.0	1013	4.7	105	506	6.276	4	B260	12D41L	1	19
16.0	1013	2.1	53.0	506	5.004	4	B130	12D41-	1	11
16.0	1013	2.1	53.0	506	5.004	4	B130	12D41L	1	12
18.0	810	5.0	130	405	6.074	5	B260	12D41-	1	19
18.0	810	5.0	130	405	6.074	5	B260	12D41L	1	19
20.0	810	2.2	67.0	405	4.973	5	B130	12D41-	1	11
20.0	810	2.2	67.0	405	4.973	5	B130	12D41L	1	12
26.0	579	4.7	135	289	5.905	7	B260	12D41-	1	19
26.0	579	4.7	135	289	5.905	7	B260	12D41L	1	19
29.0	579	2.3	65.0	289	4.929	7	B130	12D41-	1	11
29.0	579	2.3	65.0	289	4.929	7	B130	12D41L	1	12
31.0	506	3.7	120	253	5.873	8	B260	12D41-	1	19
31.0	506	3.7	120	253	5.873	8	B260	12D41L	1	19
31.0	450	4.2	210	225	6.773	9	B260	12D41-	2	21
31.0	450	4.2	210	225	6.773	9	B260	12D41L	2	21
32.0	506	1.6	50.0	253	4.920	8	B130	12D41-	1	11
32.0	506	1.6	50.0	253	4.920	8	B130	12D41L	1	12
35.0	450	2.4	130	225	5.232	9	B130	12D41-	2	12
35.0	450	2.4	130	225	5.232	9	B130	12D41L	2	12
36.0	338	5.4	260	169	6.708	12	B260	12D41-	2	21
36.0	338	5.4	260	169	6.708	12	B260	12D41L	2	21
40.0	405	2.4	95.0	203	5.820	10	B260	12D41-	1	19
40.0	405	2.4	95.0	203	5.820	10	B260	12D41L	1	19
47.0	338	2.4	120	169	5.209	12	B130	12D41-	2	12
47.0	338	2.4	120	169	5.209	12	B130	12D41L	2	12
53.0	270	3.8	230	135	6.687	15	B260	12D41-	2	21
53.0	270	3.8	230	135	6.687	15	B260	12D41L	2	21
55.0	253	4.0	260	127	6.188	16	B260	12D41-	2	21
55.0	253	4.0	260	127	6.188	16	B260	12D41L	2	21
60.0	270	1.8	110	135	5.205	15	B130	12D41-	2	12
60.0	270	1.8	110	135	5.205	15	B130	12D41L	2	12
64.0	253	1.9	120	127	4.996	16	B130	12D41-	2	12
64.0	253	1.9	120	127	4.996	16	B130	12D41L	2	12
73.0	203	3.3	260	101	6.015	20	B260	12D41-	2	21
73.0	203	3.3	260	101	6.015	20	B260	12D41L	2	21
80.0	203	1.5	120	101	4.955	20	B130	12D41-	2	12
80.0	203	1.5	120	101	4.955	20	B130	12D41L	2	12
99.0	162	1.1	110	81.0	4.954	25	B130	12D41-	2	12
99.0	162	1.1	110	81.0	4.954	25	B130	12D41L	2	12
99.0	162	2.3	230	81.0	6.007	25	B260	12D41-	2	21
99.0	162	2.3	230	81.0	6.007	25	B260	12D41L	2	21
127	127	2.1	260	63.0	5.861	32	B260	12D41-	2	21
127	127	2.1	260	63.0	5.861	32	B260	12D41L	2	21
157	101	1.5	230	51.0	5.858	40	B260	12D41-	2	21
157	101	1.5	230	51.0	5.858	40	B260	12D41L	2	21
227	67.5	1.2	260	34.0	6.681	60	B260	12D41-	3	23



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
227	67.5	1.2	260	34.0	6.681	60	B260	12D41L	3	23

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
7.4	2000	5.3	80.0	1000	4.746	3	B260	09H60-	1	19
7.4	2000	5.3	80.0	1000	4.746	3	B260	09H60L	1	19
8.6	2000	1.9	40.0	1000	3.173	3	B130	09H60-	1	11
8.6	2000	1.9	40.0	1000	3.173	3	B130	09H60L	1	11
9.2	1700	4.7	80.0	850	5.646	3	B260	09L51-	1	20
9.7	1500	5.9	105	750	4.176	4	B260	09H60-	1	19
9.7	1500	5.9	105	750	4.176	4	B260	09H60L	1	19
11.0	1500	2.6	53.0	750	2.904	4	B130	09H60-	1	11
11.0	1500	2.6	53.0	750	2.904	4	B130	09H60L	1	11
12.0	1350	4.1	80.0	675	5.646	3	B260	09L41-	1	20
12.0	1350	4.1	80.0	675	5.646	3	B260	09L41L	1	21
12.0	1275	5.2	105	638	5.076	4	B260	09L51-	1	20
14.0	1200	2.8	67.0	600	2.873	5	B130	09H60-	1	11
14.0	1200	2.8	67.0	600	2.873	5	B130	09H60L	1	11
15.0	1020	5.6	130	510	4.874	5	B260	09L51-	1	20
16.0	1013	4.5	105	506	5.076	4	B260	09L41-	1	20
16.0	1013	4.5	105	506	5.076	4	B260	09L41L	1	21
19.0	857	3.1	65.0	429	2.829	7	B130	09H60-	1	11
19.0	857	3.1	65.0	429	2.829	7	B130	09H60L	1	11
19.0	810	4.8	130	405	4.874	5	B260	09L41-	1	20
19.0	810	4.8	130	405	4.874	5	B260	09L41L	1	21
19.0	667	5.3	210	333	4.673	9	B260	09H60-	2	21
19.0	667	5.3	210	333	4.673	9	B260	09H60L	2	21
20.0	750	5.3	120	375	3.773	8	B260	09H60-	1	19
20.0	750	5.3	120	375	3.773	8	B260	09H60L	1	19
21.0	729	5.6	135	364	4.705	7	B260	09L51-	1	20
23.0	750	2.2	50.0	375	2.820	8	B130	09H60-	1	11
23.0	750	2.2	50.0	375	2.820	8	B130	09H60L	1	11
23.0	667	3.1	130	333	3.132	9	B130	09H60-	2	12
23.0	667	3.1	130	333	3.132	9	B130	09H60L	2	12
24.0	567	4.6	210	283	5.573	9	B260	09L51-	2	22
25.0	638	4.4	120	319	4.673	8	B260	09L51-	1	20
27.0	600	3.4	95.0	300	3.720	10	B260	09H60-	1	19
27.0	600	3.4	95.0	300	3.720	10	B260	09H60L	1	19
27.0	579	4.5	135	289	4.705	7	B260	09L41-	1	20
27.0	579	4.5	135	289	4.705	7	B260	09L41L	1	21
28.0	600	1.4	38.0	300	2.810	10	B130	09H60-	1	11
28.0	600	1.4	38.0	300	2.810	10	B130	09H60L	1	11
31.0	500	3.0	120	250	3.109	12	B130	09H60-	2	12
31.0	500	3.0	120	250	3.109	12	B130	09H60L	2	12
31.0	400	5.4	230	200	4.587	15	B260	09H60-	2	21
31.0	400	5.4	230	200	4.587	15	B260	09H60L	2	21
32.0	506	3.5	120	253	4.673	8	B260	09L41-	1	20
32.0	506	3.5	120	253	4.673	8	B260	09L41L	1	21
32.0	450	4.0	210	225	5.573	9	B260	09L41-	2	22
32.0	450	4.0	210	225	5.573	9	B260	09L41L	2	23
33.0	510	2.8	95.0	255	4.620	10	B260	09L51-	1	20
33.0	375	5.6	260	188	4.088	16	B260	09H60-	2	21
33.0	375	5.6	260	188	4.088	16	B260	09H60L	2	21
39.0	338	5.1	260	169	5.508	12	B260	09L41-	2	22
39.0	338	5.1	260	169	5.508	12	B260	09L41L	2	23



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
41.0	400	2.5	110	200	3.105	15	B130	09H60-	2	12
41.0	400	2.5	110	200	3.105	15	B130	09H60L	2	12
41.0	340	4.5	230	170	5.487	15	B260	09L51-	2	22
42.0	405	2.3	95.0	203	4.620	10	B260	09L41-	1	20
42.0	405	2.3	95.0	203	4.620	10	B260	09L41L	1	21
43.0	319	4.8	260	159	4.988	16	B260	09L51-	2	22
44.0	375	2.5	120	188	2.896	16	B130	09H60-	2	12
44.0	375	2.5	120	188	2.896	16	B130	09H60L	2	12
45.0	300	4.7	260	150	3.915	20	B260	09H60-	2	21
45.0	300	4.7	260	150	3.915	20	B260	09H60L	2	21
56.0	300	2.1	120	150	2.855	20	B130	09H60-	2	12
56.0	300	2.1	120	150	2.855	20	B130	09H60L	2	12
56.0	270	3.6	230	135	5.487	15	B260	09L41-	2	22
56.0	270	3.6	230	135	5.487	15	B260	09L41L	2	23
58.0	255	3.9	260	128	4.815	20	B260	09L51-	2	22
58.0	253	3.8	260	127	4.988	16	B260	09L41-	2	22
58.0	253	3.8	260	127	4.988	16	B260	09L41L	2	23
64.0	240	3.3	230	120	3.907	25	B260	09H60-	2	21
64.0	240	3.3	230	120	3.907	25	B260	09H60L	2	21
69.0	240	1.6	110	120	2.854	25	B130	09H60-	2	12
69.0	240	1.6	110	120	2.854	25	B130	09H60L	2	12
78.0	203	3.1	260	101	4.815	20	B260	09L41-	2	22
78.0	203	3.1	260	101	4.815	20	B260	09L41L	2	23
80.0	204	2.8	230	102	4.807	25	B260	09L51-	2	22
84.0	188	2.9	260	94.0	3.761	32	B260	09H60-	2	21
84.0	188	2.9	260	94.0	3.761	32	B260	09H60L	2	21
88.0	188	1.4	120	94.0	2.817	32	B130	09H60-	2	12
88.0	188	1.4	120	94.0	2.817	32	B130	09H60L	2	12
104	162	2.2	230	81.0	4.807	25	B260	09L41-	2	22
104	162	2.2	230	81.0	4.807	25	B260	09L41L	2	23
105	159	2.5	260	80.0	4.661	32	B260	09L51-	2	22
108	150	1.0	110	75.0	2.816	40	B130	09H60-	2	12
108	150	1.0	110	75.0	2.816	40	B130	09H60L	2	12
109	150	2.1	230	75.0	3.758	40	B260	09H60-	2	21
109	150	2.1	230	75.0	3.758	40	B260	09H60L	2	21
131	128	1.8	230	64.0	4.658	40	B260	09L51-	2	22
132	127	2.0	260	63.0	4.661	32	B260	09L41-	2	22
132	127	2.0	260	63.0	4.661	32	B260	09L41L	2	23
158	100	1.6	260	50.0	4.581	60	B260	09H60-	3	23
158	100	1.6	260	50.0	4.581	60	B260	09H60L	3	23
164	101	1.4	230	51.0	4.658	40	B260	09L41-	2	22
164	101	1.4	230	51.0	4.658	40	B260	09L41L	2	23
190	85.0	1.4	260	43.0	5.481	60	B260	09L51-	3	24
209	75.0	1.3	260	38.0	3.911	80	B260	09H60-	3	23
209	75.0	1.3	260	38.0	3.911	80	B260	09H60L	3	23
238	67.5	1.1	260	34.0	5.481	60	B260	09L41-	3	24
238	67.5	1.1	260	34.0	5.481	60	B260	09L41L	3	25
251	63.8	1.0	260	32.0	4.811	80	B260	09L51-	3	24
255	60.0	1.0	260	30.0	3.905	100	B260	09H60-	3	23
255	60.0	1.0	260	30.0	3.905	100	B260	09H60L	3	23

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
23.0	1000	2.5	80.0	500	10.146	3	B260	12H30L	1	22
30.0	750	2.8	105	375	9.576	4	B260	12H30L	1	22
37.0	600	3.0	130	300	9.374	5	B260	12H30L	1	22
53.0	429	2.5	135	214	9.205	7	B260	12H30L	1	22
61.0	375	2.0	120	188	9.173	8	B260	12H30L	1	22
65.0	333	2.4	210	167	10.073	9	B260	12H30L	2	24
75.0	300	1.3	95.0	150	9.120	10	B260	12H30L	1	22
84.0	250	2.9	260	125	10.008	12	B260	12H30L	2	24
112	200	2.0	230	100	9.987	15	B260	12H30L	2	24
119	188	2.2	260	94.0	9.488	16	B260	12H30L	2	24
149	150	1.8	260	75.0	9.315	20	B260	12H30L	2	24
184	120	1.3	230	60.0	9.307	25	B260	12H30L	2	24
236	93.8	1.1	260	47.0	9.161	32	B260	12H30L	2	24



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
21.0	1200	2.5	80.0	600	10.946	3	B260	14D36-	1	41
21.0	1175	2.6	80.0	588	10.146	3	B260	12H35-	1	22
28.0	900	2.8	105	450	10.376	4	B260	14D36-	1	41
28.0	881	2.8	105	441	9.576	4	B260	12H35-	1	22
34.0	720	3.0	130	360	10.174	5	B260	14D36-	1	41
34.0	705	3.0	130	353	9.374	5	B260	12H35-	1	22
38.0	650	1.7	80.0	325	13.446	3	B260	12L20-	1	25
38.0	650	1.7	80.0	325	13.446	3	B260	12L20L	1	25
49.0	514	2.7	135	257	10.005	7	B260	14D36-	1	41
49.0	504	2.7	135	252	9.205	7	B260	12H35-	1	22
51.0	488	1.9	105	244	12.876	4	B260	12L20-	1	25
51.0	488	1.9	105	244	12.876	4	B260	12L20L	1	25
57.0	450	2.1	120	225	9.973	8	B260	14D36-	1	41
57.0	441	2.1	120	220	9.173	8	B260	12H35-	1	22
61.0	400	2.5	210	200	10.873	9	B260	14D36-	2	43
61.0	392	2.5	210	196	10.073	9	B260	12H35-	2	24
64.0	390	2.0	130	195	12.674	5	B260	12L20-	1	25
64.0	390	2.0	130	195	12.674	5	B260	12L20L	1	25
71.0	360	1.4	95.0	180	9.920	10	B260	14D36-	1	41
71.0	353	1.4	95.0	176	9.120	10	B260	12H35-	1	22
78.0	300	3.1	260	150	10.808	12	B260	14D36-	2	43
78.0	294	3.1	260	147	10.008	12	B260	12H35-	2	24
90.0	279	1.5	135	139	12.505	7	B260	12L20-	1	25
90.0	279	1.5	135	139	12.505	7	B260	12L20L	1	25
103	244	1.2	120	122	12.473	8	B260	12L20-	1	25
103	244	1.2	120	122	12.473	8	B260	12L20L	1	25
104	240	2.2	230	120	10.787	15	B260	14D36-	2	43
104	235	2.2	230	118	9.987	15	B260	12H35-	2	24
110	225	2.3	260	113	10.288	16	B260	14D36-	2	43
110	220	2.3	260	110	9.488	16	B260	12H35-	2	24
114	217	1.7	210	108	13.373	9	B260	12L20-	2	27
114	217	1.7	210	108	13.373	9	B260	12L20L	2	27
140	180	1.9	260	90.0	10.115	20	B260	14D36-	2	43
140	176	1.9	260	88.0	9.315	20	B260	12H35-	2	24
152	163	1.7	260	81.0	13.308	12	B260	12L20-	2	27
152	163	1.7	260	81.0	13.308	12	B260	12L20L	2	27
173	144	1.3	230	72.0	10.107	25	B260	14D36-	2	43
173	141	1.3	230	71.0	9.307	25	B260	12H35-	2	24
190	130	1.2	230	65.0	13.287	15	B260	12L20-	2	27
190	130	1.2	230	65.0	13.287	15	B260	12L20L	2	27
203	122	1.3	260	61.0	12.788	16	B260	12L20-	2	27
203	122	1.3	260	61.0	12.788	16	B260	12L20L	2	27
221	113	1.2	260	56.0	9.961	32	B260	14D36-	2	43
221	110	1.2	260	55.0	9.161	32	B260	12H35-	2	24
251	97.5	1.0	260	49.0	12.615	20	B260	12L20-	2	27
251	97.5	1.0	260	49.0	12.615	20	B260	12L20L	2	27

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
31.0	1350	1.7	80.0	675	13.446	3	B260	12L41-	1	25
42.0	1013	1.8	105	506	12.876	4	B260	12L41-	1	25
52.0	810	2.0	130	405	12.674	5	B260	12L41-	1	25
73.0	579	1.9	135	289	12.505	7	B260	12L41-	1	25
84.0	506	1.4	120	253	12.473	8	B260	12L41-	1	25
93.0	450	1.6	210	225	13.373	9	B260	12L41-	2	27
123	338	2.1	260	169	13.308	12	B260	12L41-	2	27
155	270	1.5	230	135	13.287	15	B260	12L41-	2	27
165	253	1.6	260	127	12.788	16	B260	12L41-	2	27
205	203	1.3	260	101	12.615	20	B260	12L41-	2	27



Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
19.0	550	3.5	80.0	275	6.846	3	B260	12D17-	1	21
25.0	413	3.9	105	206	6.276	4	B260	12D17-	1	21
31.0	330	3.9	130	165	6.074	5	B260	12D17-	1	21
45.0	236	2.9	135	118	5.905	7	B260	12D17-	1	21
53.0	206	2.3	120	103	5.873	8	B260	12D17-	1	21
53.0	183	3.3	210	92.0	6.773	9	B260	12D17-	2	23
66.0	165	1.4	95.0	83.0	5.820	10	B260	12D17-	1	21
71.0	138	3.3	260	69.0	6.708	12	B260	12D17-	2	23
96.0	110	2.3	230	55.0	6.687	15	B260	12D17-	2	23
102	103	2.5	260	52.0	6.188	16	B260	12D17-	2	23
130	82.5	2.0	260	41.0	6.015	20	B260	12D17-	2	23
161	66.0	1.4	230	33.0	6.007	25	B260	12D17-	2	23
206	51.6	1.3	260	26.0	5.861	32	B260	12D17-	2	23

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	450	2.2	80.0	225	10.146	3	B260	12H14-	1	24
45.0	338	2.3	105	169	9.576	4	B260	12H14-	1	24
57.0	270	2.3	130	135	9.374	5	B260	12H14-	1	24
80.0	193	1.7	135	96.0	9.205	7	B260	12H14-	1	24
91.0	169	1.3	120	84.0	9.173	8	B260	12H14-	1	24
101	150	2.1	210	75.0	10.073	9	B260	12H14-	2	26
135	113	1.9	260	56.0	10.008	12	B260	12H14-	2	26
169	90.0	1.4	230	45.0	9.987	15	B260	12H14-	2	26
180	84.4	1.4	260	42.0	9.488	16	B260	12H14-	2	26
223	67.5	1.2	260	34.0	9.315	20	B260	12H14-	2	26

2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1175	3.2	80.0	588	6.846	3	B260	12D35-	1	21
22.0	881	3.5	105	441	6.276	4	B260	12D35-	1	21
27.0	705	3.8	130	353	6.074	5	B260	12D35-	1	21
38.0	504	3.4	135	252	5.905	7	B260	12D35-	1	21
45.0	441	2.6	120	220	5.873	8	B260	12D35-	1	21
47.0	392	3.1	210	196	6.773	9	B260	12D35-	2	23
56.0	353	1.7	95.0	176	5.820	10	B260	12D35-	1	21
58.0	294	3.8	260	147	6.708	12	B260	12D35-	2	23
80.0	235	2.7	230	118	6.687	15	B260	12D35-	2	23
84.0	220	2.9	260	110	6.188	16	B260	12D35-	2	23
110	176	2.3	260	88.0	6.015	20	B260	12D35-	2	23
138	141	1.7	230	71.0	6.007	25	B260	12D35-	2	23
177	110	1.5	260	55.0	5.861	32	B260	12D35-	2	23
218	88.1	1.1	230	44.0	5.858	40	B260	12D35-	2	23

Technical data

Bevel gearbox g700-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



3.7 kW

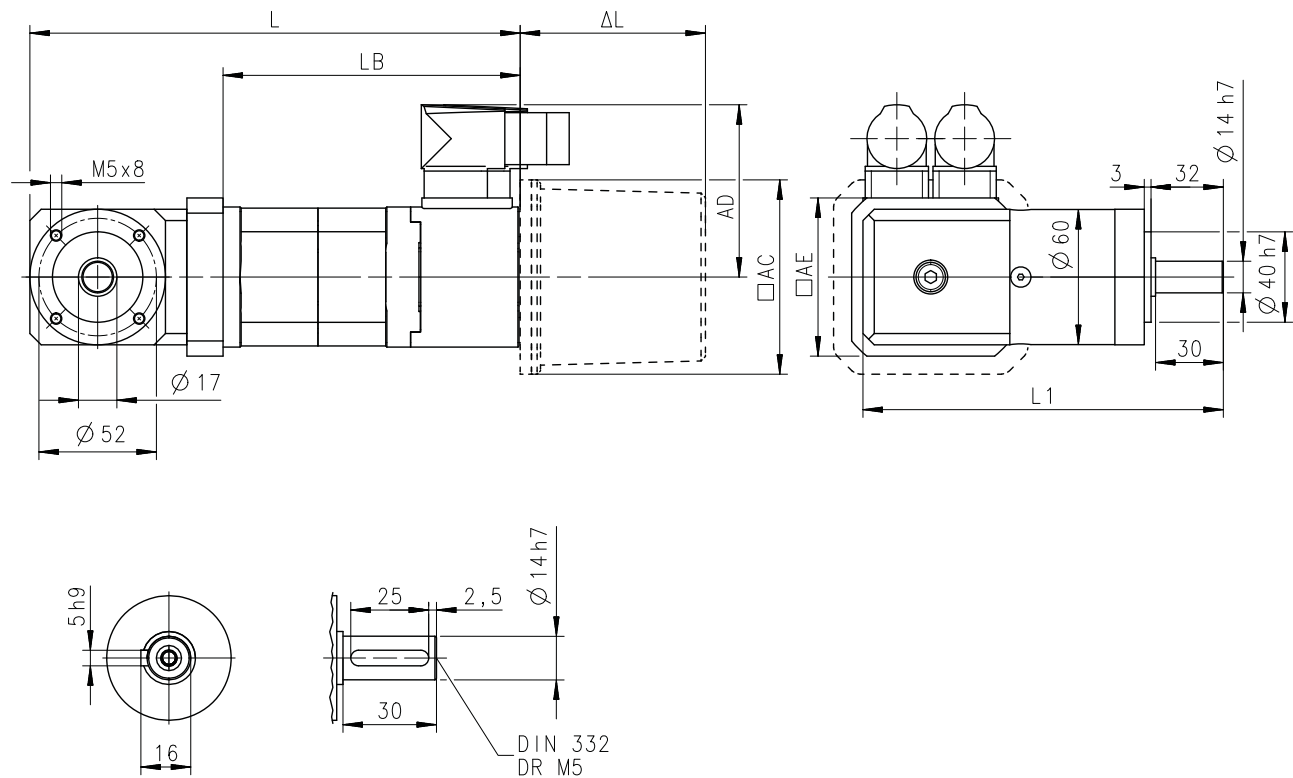
Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g700-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	1125	1.9	80.0	563	10.146	3	B260	12H34-	1	24
40.0	844	2.0	105	422	9.576	4	B260	12H34-	1	24
50.0	675	2.2	130	338	9.374	5	B260	12H34-	1	24
70.0	482	1.9	135	241	9.205	7	B260	12H34-	1	24
80.0	422	1.5	120	211	9.173	8	B260	12H34-	1	24
89.0	375	1.8	210	188	10.073	9	B260	12H34-	2	26
117	281	2.2	260	141	10.008	12	B260	12H34-	2	26
148	225	1.6	230	113	9.987	15	B260	12H34-	2	26
158	211	1.7	260	105	9.488	16	B260	12H34-	2	26
195	169	1.3	260	84.0	9.315	20	B260	12H34-	2	26



Basic dimensions

g700-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800810-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	147	147	147	147	147	147
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

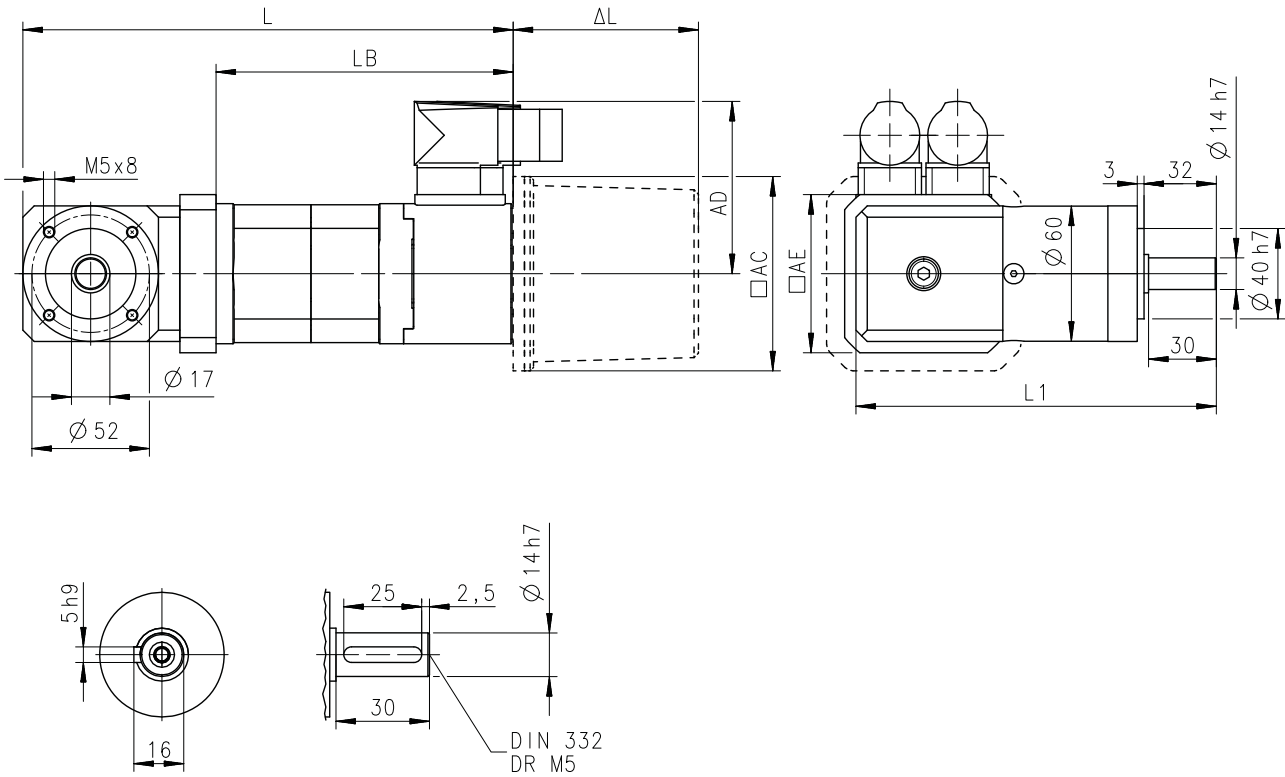
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



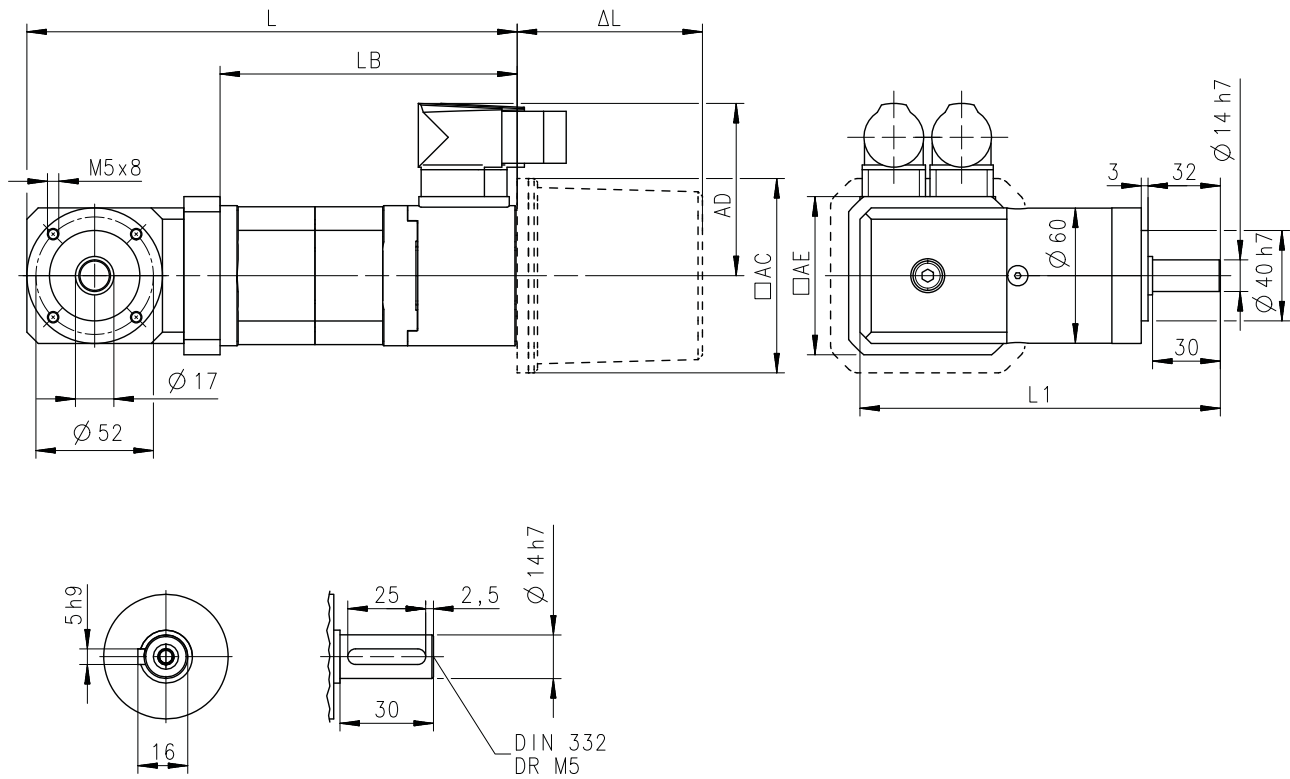
8800810-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	159.5	159.5	159.5	159.5	159.5	159.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70



g700-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800810-00

Motor			MCS 06	
			C41- C41L	C60- C60L
Total length	L	mm	217.5	217.5
Gearbox length	L1	mm	172	172
Motor length	LB	mm	132	132
Motor diameter	AC	mm	86	86
Motor/connection distance	AD	mm	77	77
Gearbox diameter	AE	mm	70	70

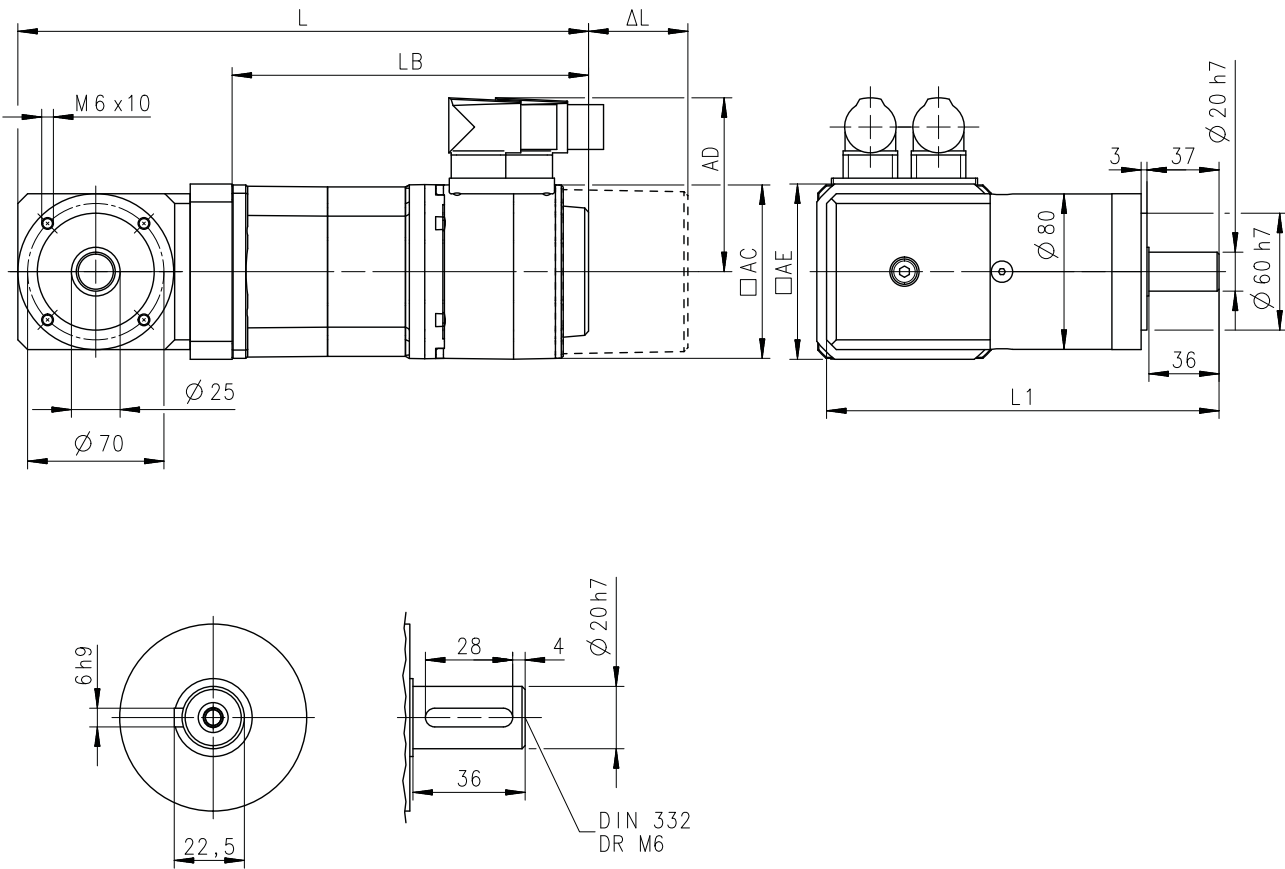
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B130 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



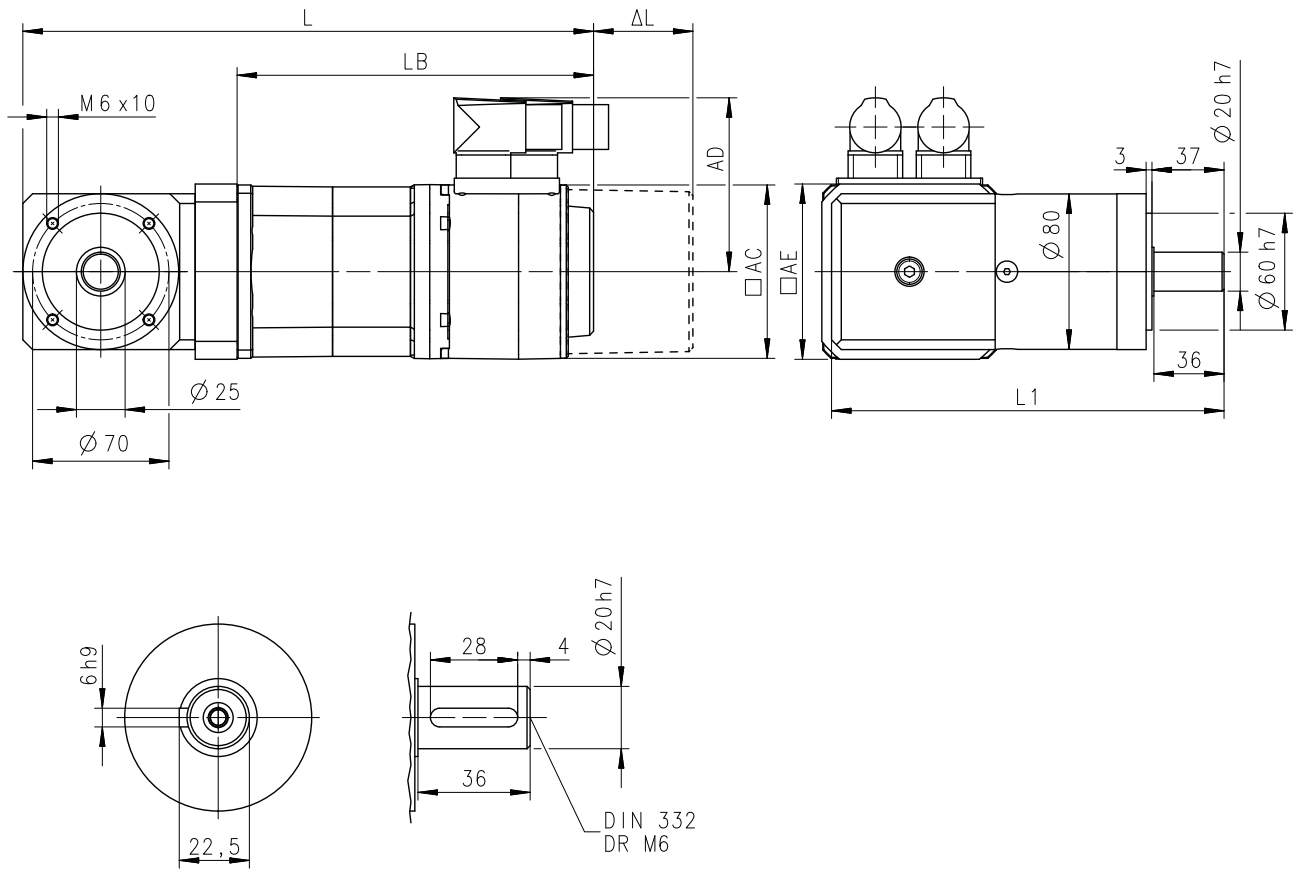
8800811-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	272	272	302	302
Gearbox length	L1	mm	184	184	184	184
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80



g700-B130 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800811-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	242	242	272	272	302	302
Gearbox length	L1	mm	201.5	201.5	201.5	201.5	201.5	201.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80	80	80

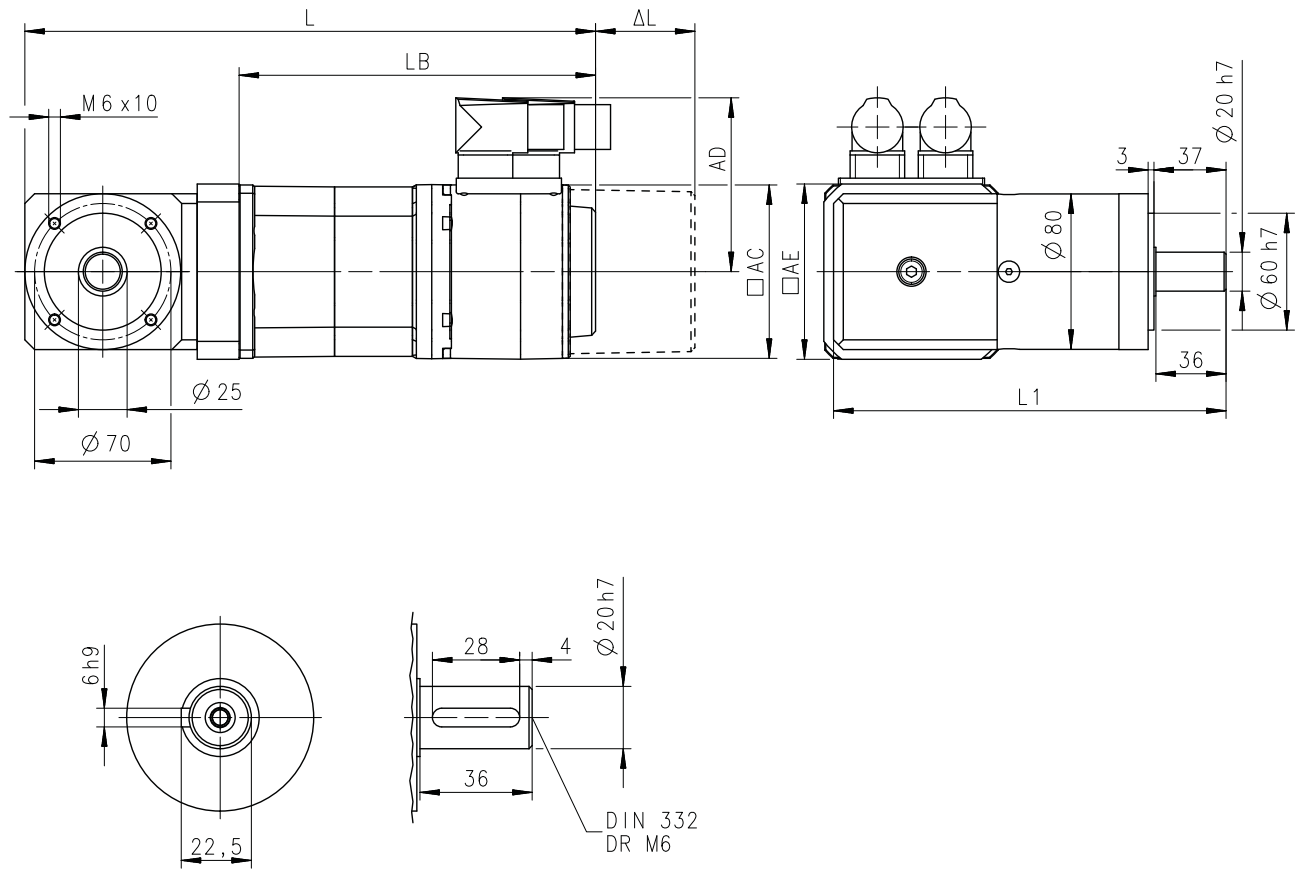
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B130 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



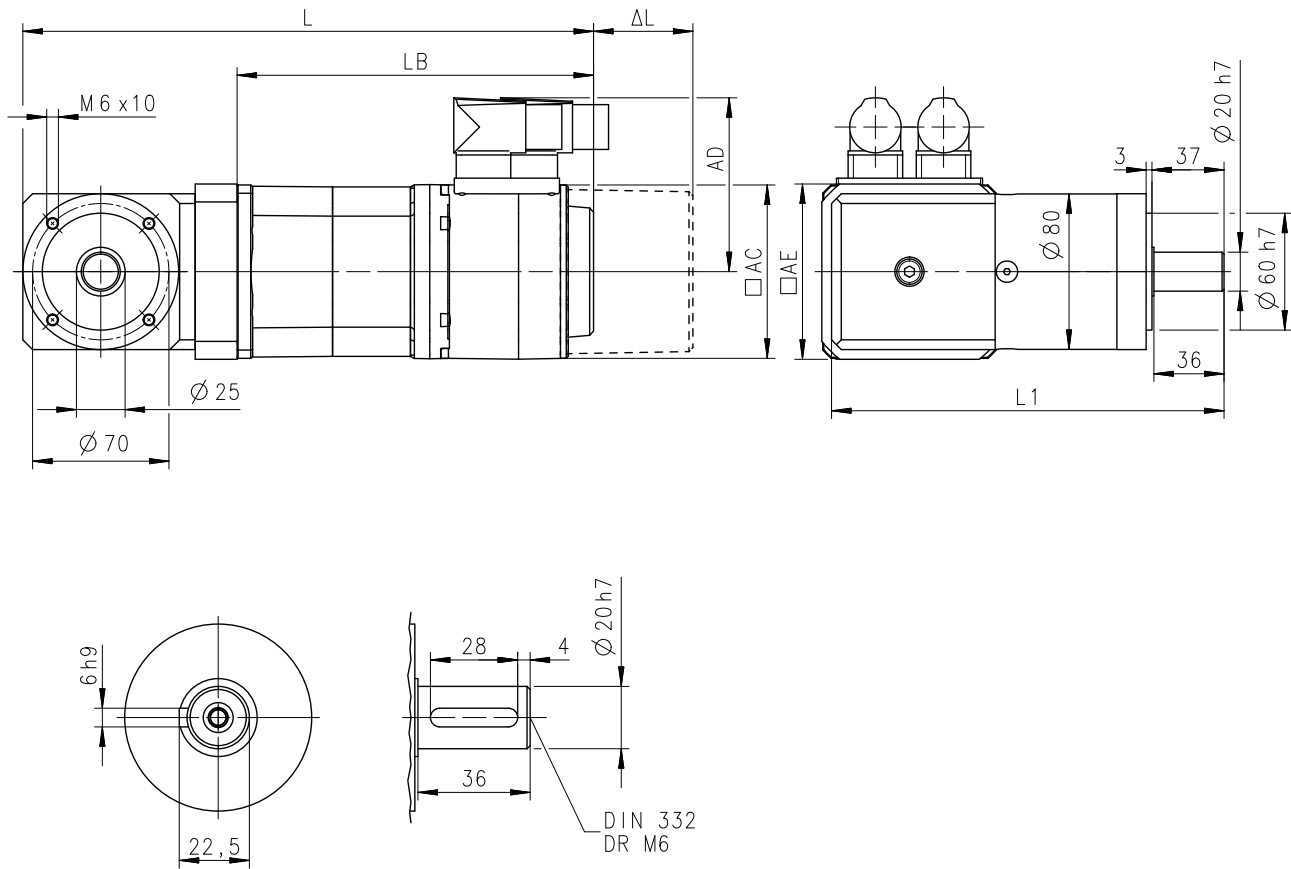
8800811-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	242	242	272	272	302	302
Gearbox length	L1	mm	219	219	219	219	219	219
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80	80	80



g700-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800811-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	184	184	184	184	184	184
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

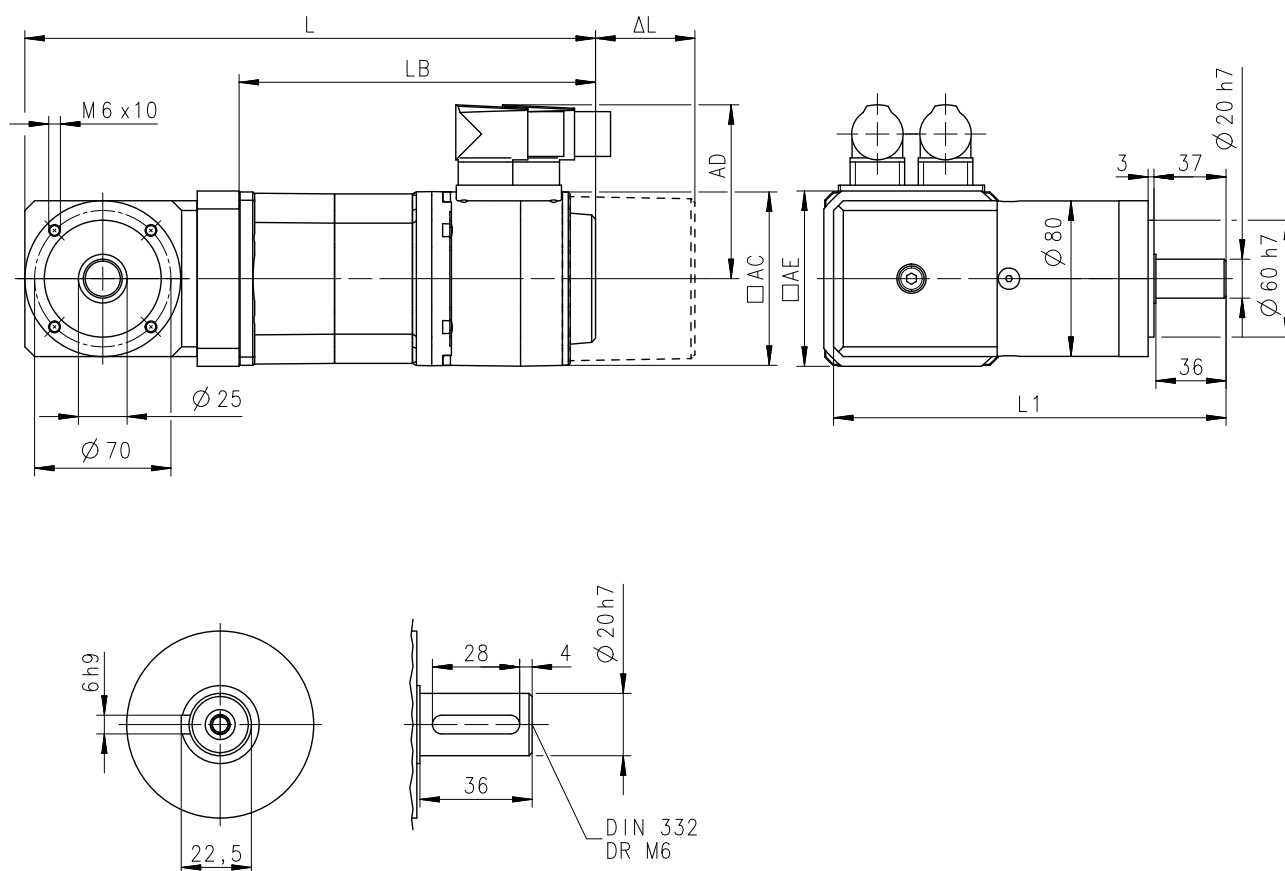
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



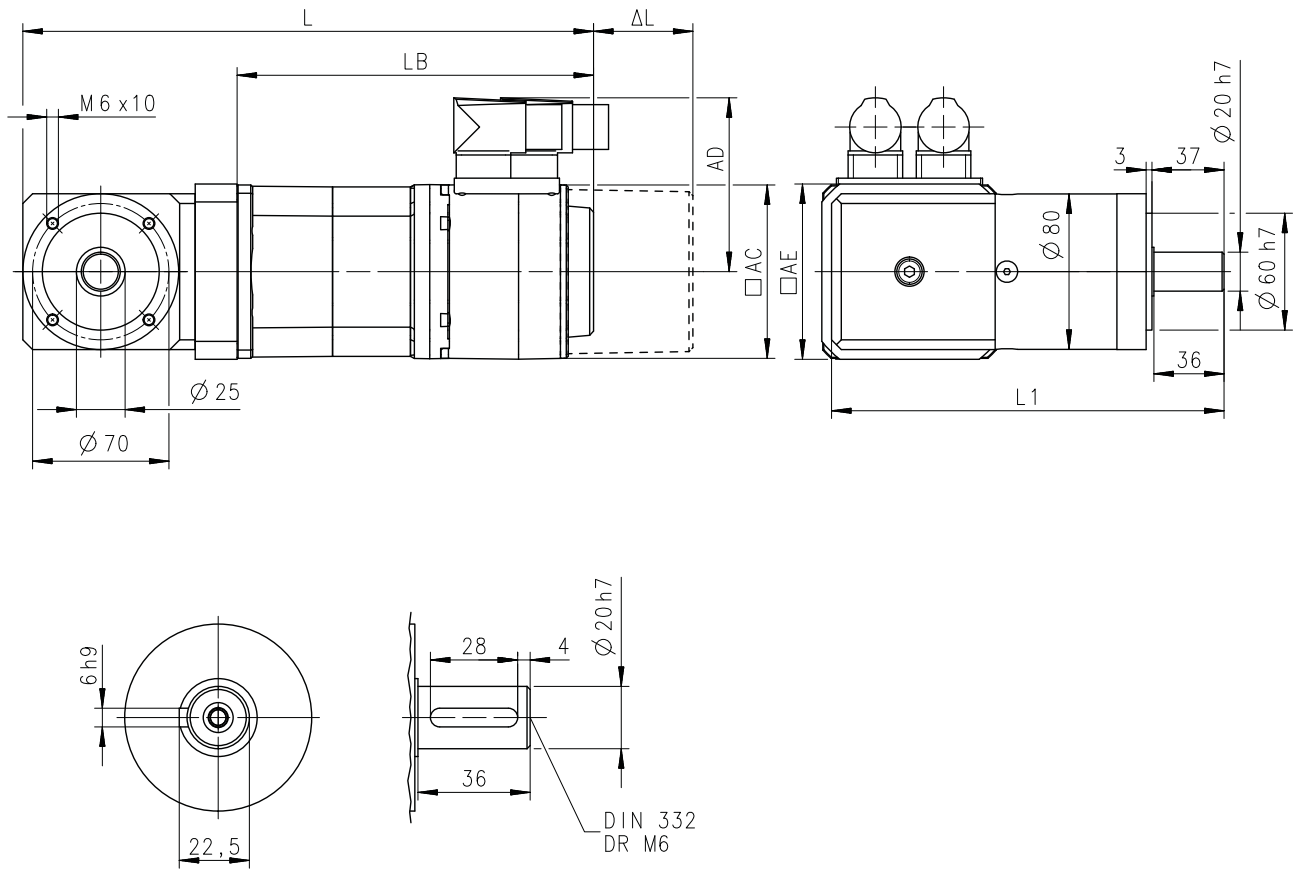
8800811-00

Motor			MCS 09					
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	201.5	201.5	201.5	201.5	201.5	201.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90



g700-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800811-00

Motor			MCS 09
			D60- D60L
Total length	L	mm	292
Gearbox length	L1	mm	219
Motor length	LB	mm	182
Motor diameter	AC	mm	89
Motor/connection distance	AD	mm	90
Gearbox diameter	AE	mm	90

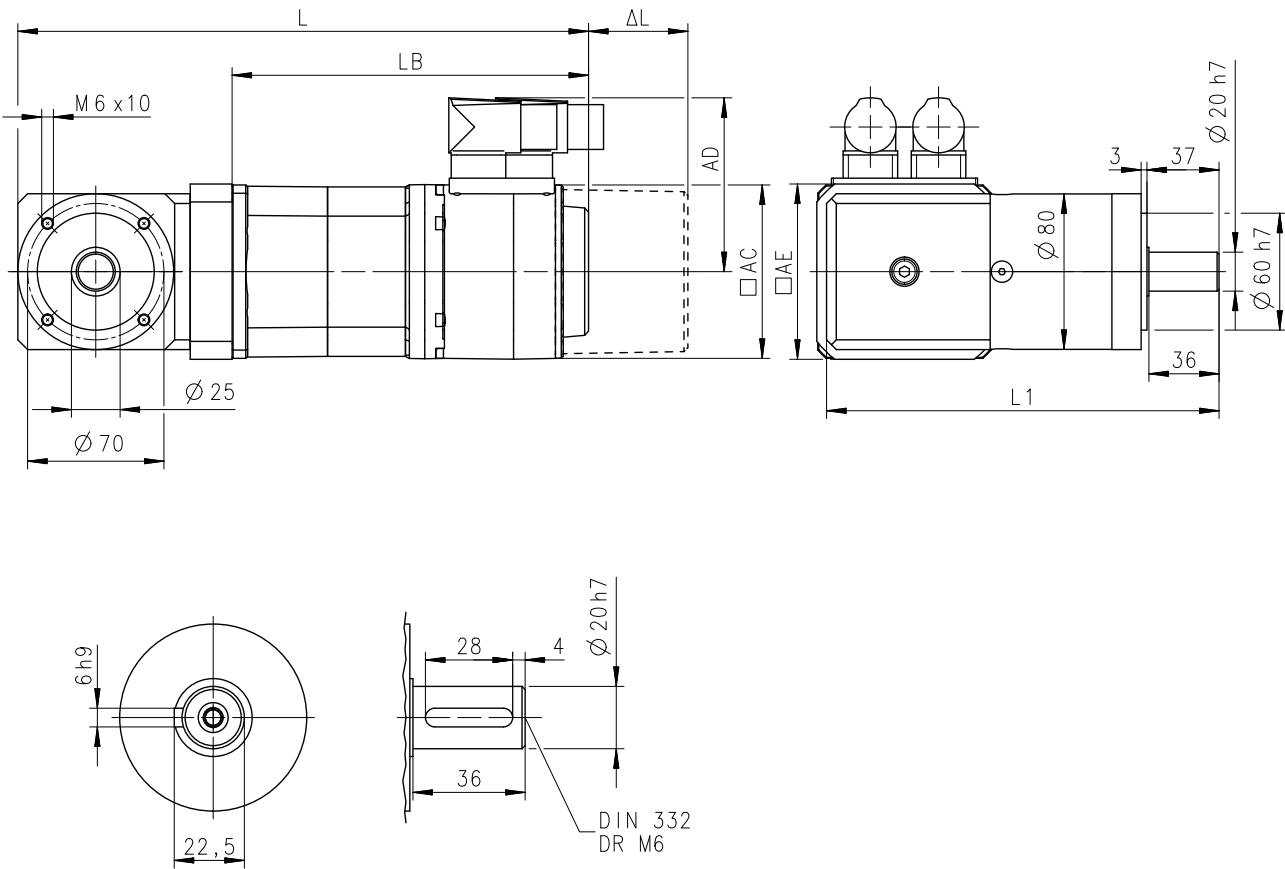
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B130 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



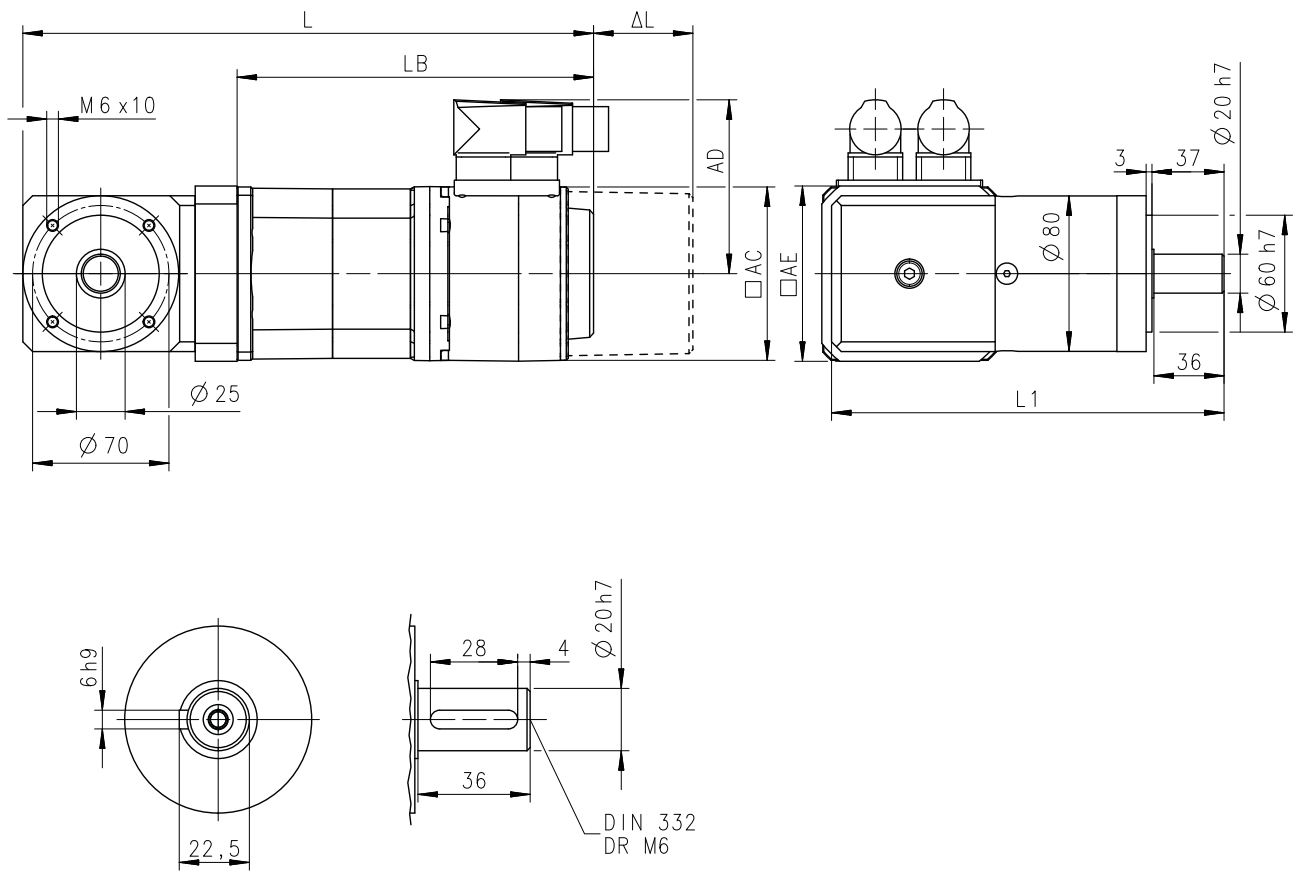
8800811-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	184	184
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g700-B130 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800811-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	201.5	201.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

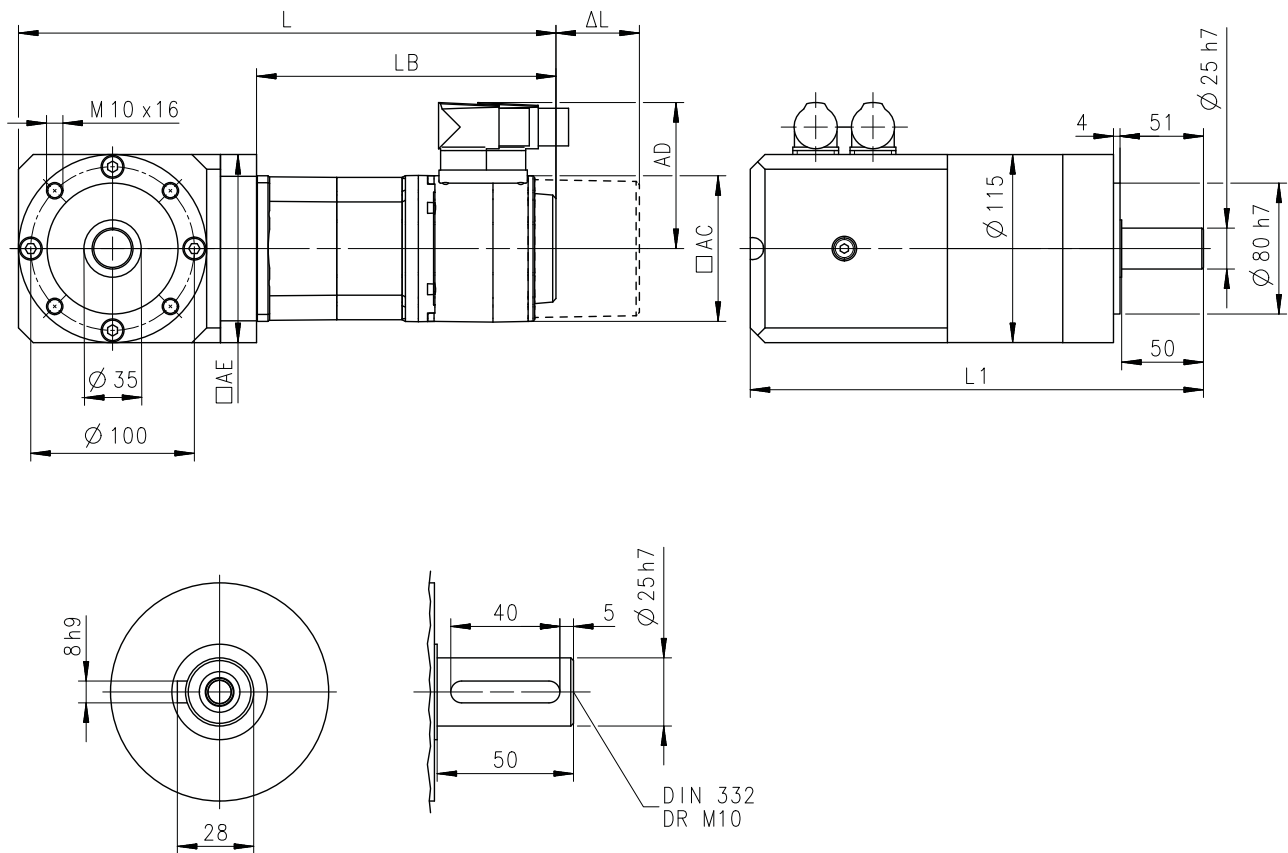
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B260 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



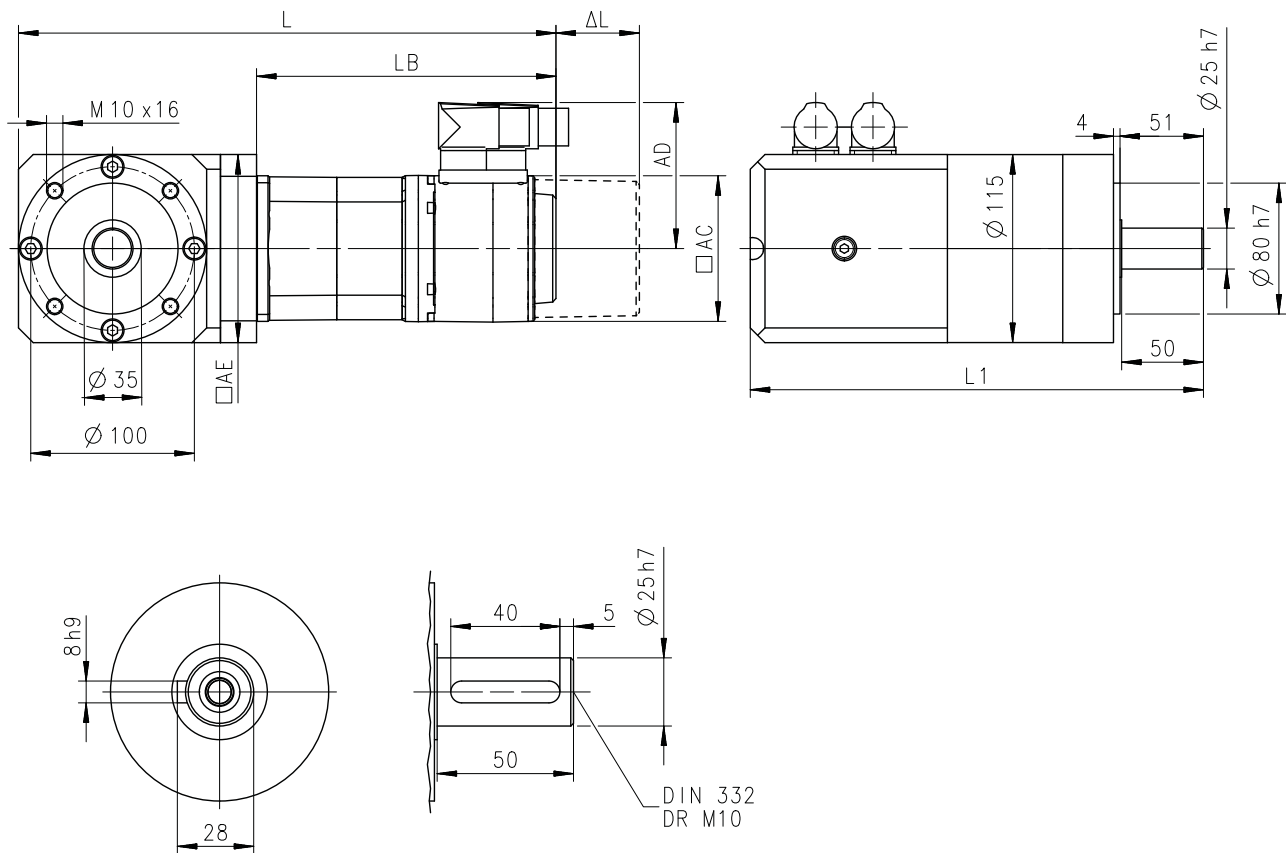
8800812-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	277.5	307.5	307.5	337.5	337.5
Gearbox length	L1	mm	277	277	277	277	277
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	115	115	115	115	115



g700-B260 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800812-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	277.5	307.5	307.5	337.5	337.5
Gearbox length	L1	mm	304.5	304.5	304.5	304.5	304.5
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	115	115	115	115	115

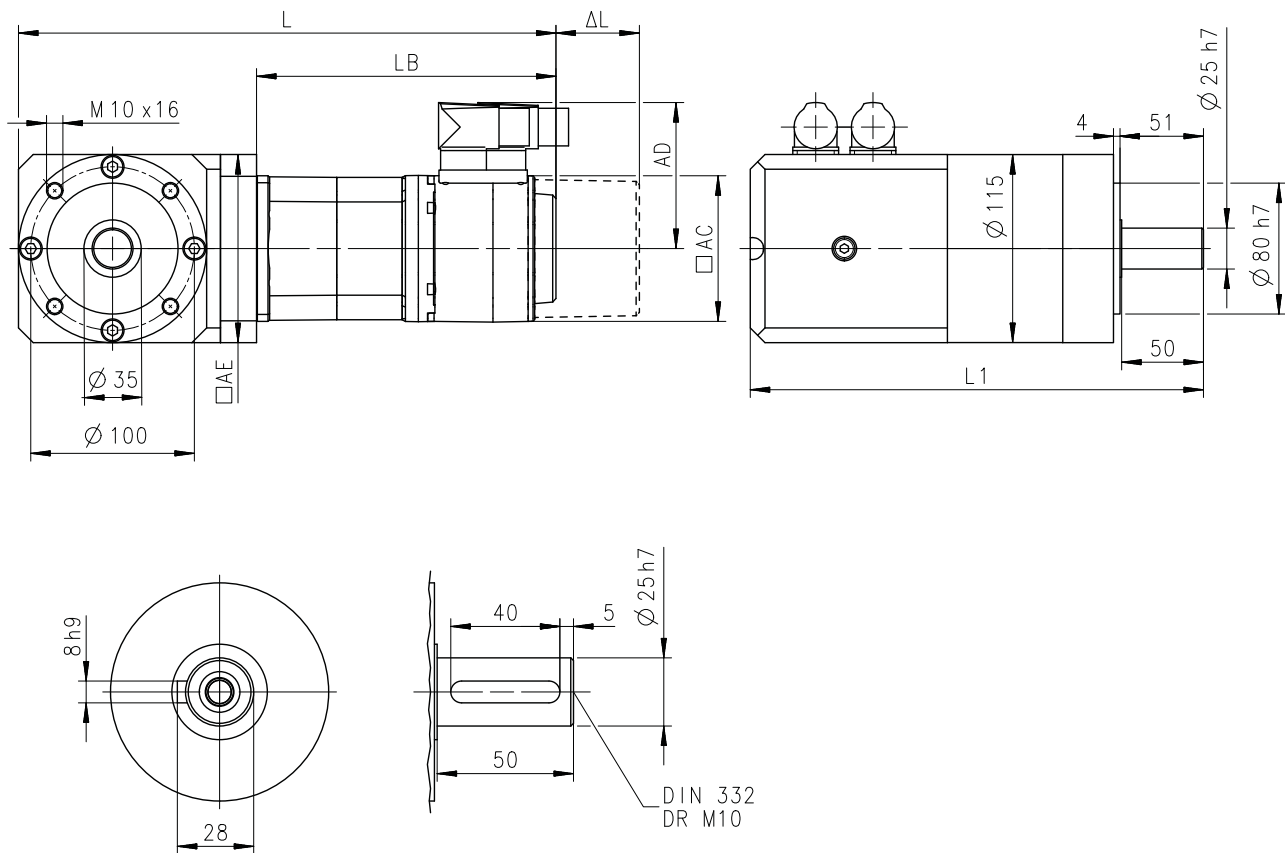
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800812-00

Motor			MCS 09							
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L	L41- L41L	L51-
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

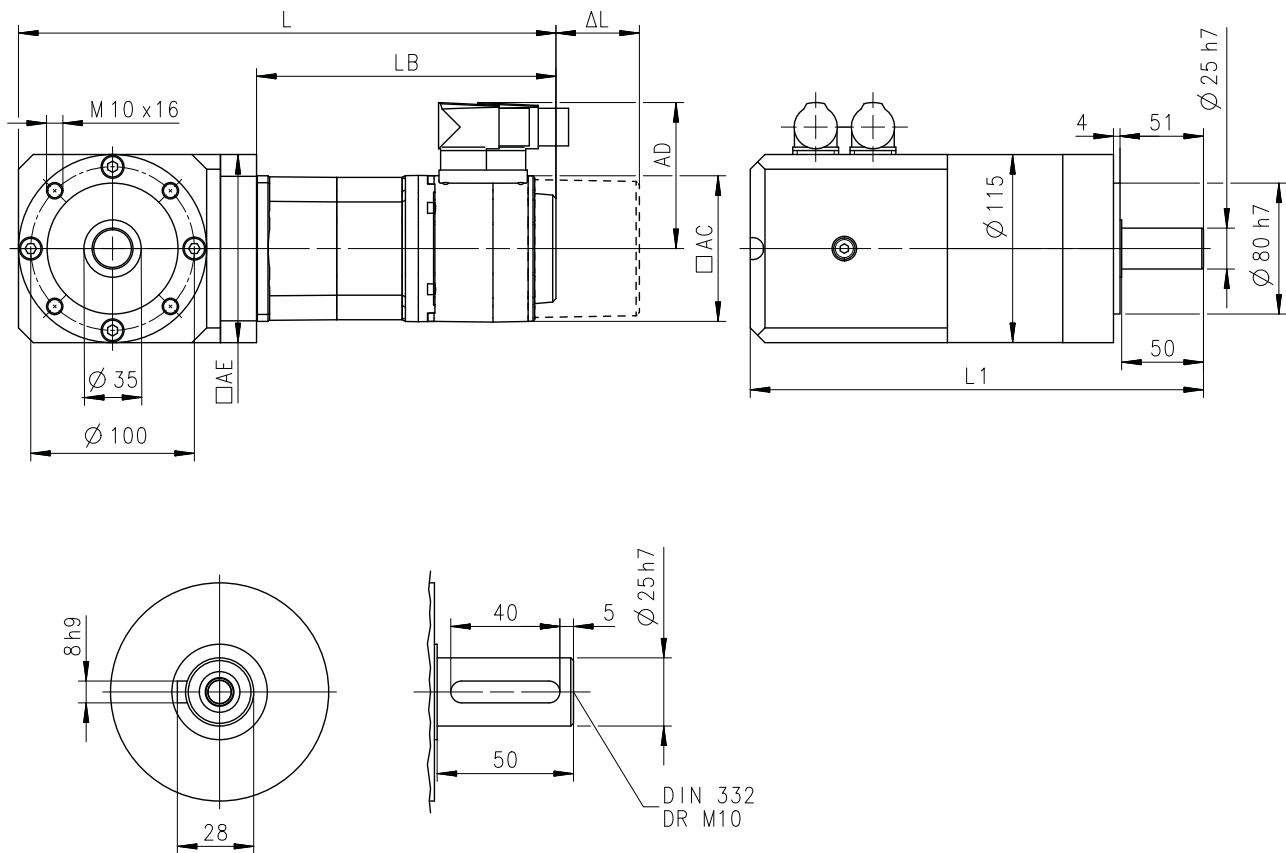


Technical data

Bevel gearbox g700-B
Basic dimensions

g700-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800812-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	277	277	277	277	277	277	277	277
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

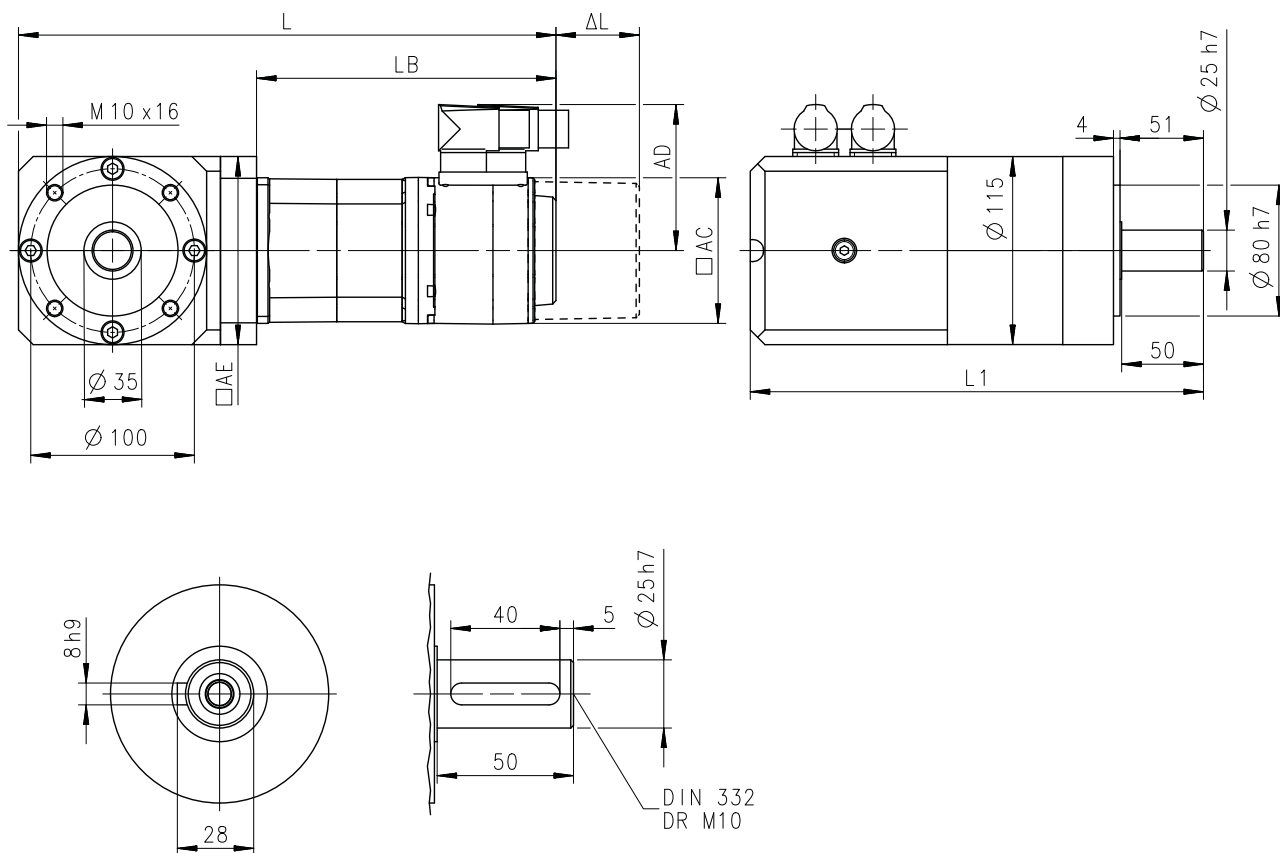
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 3-stage



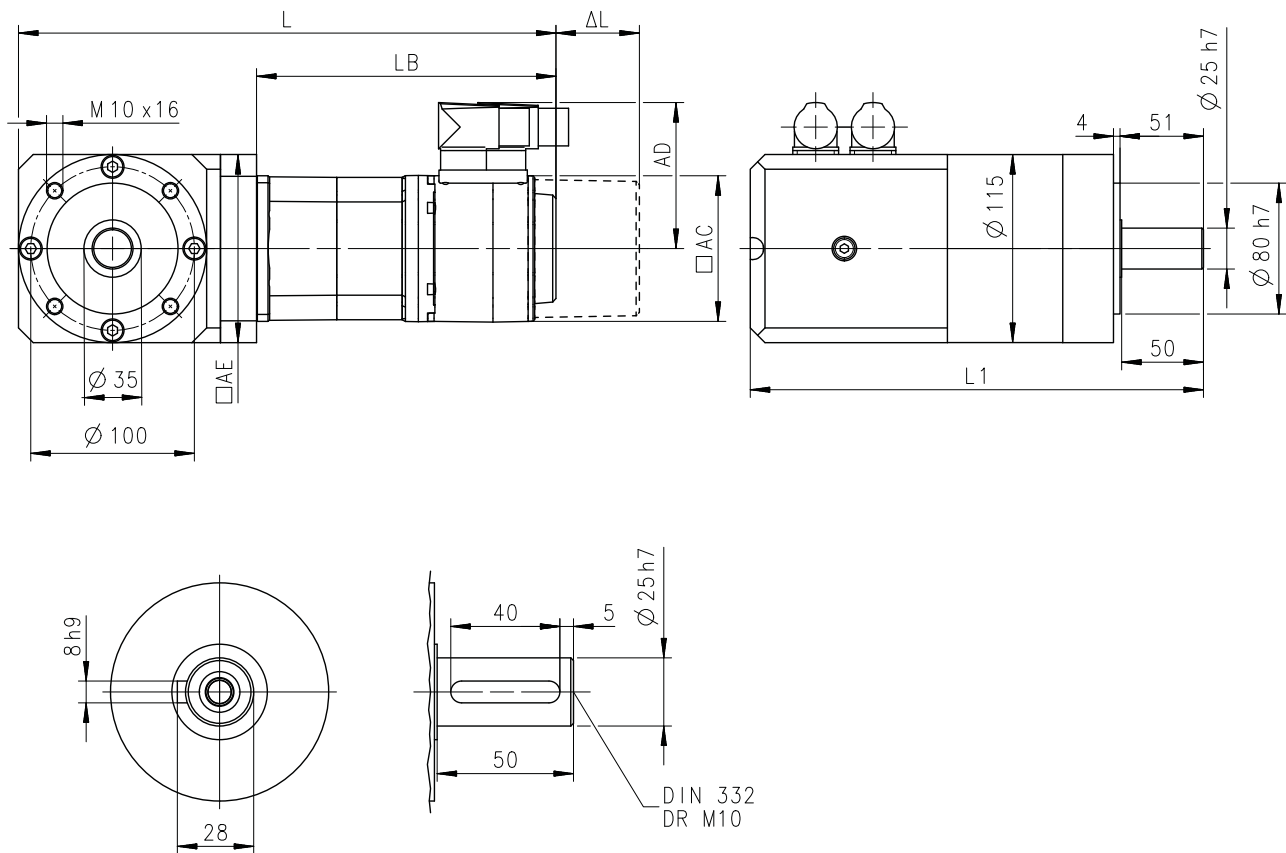
8800812-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115



g700-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800812-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

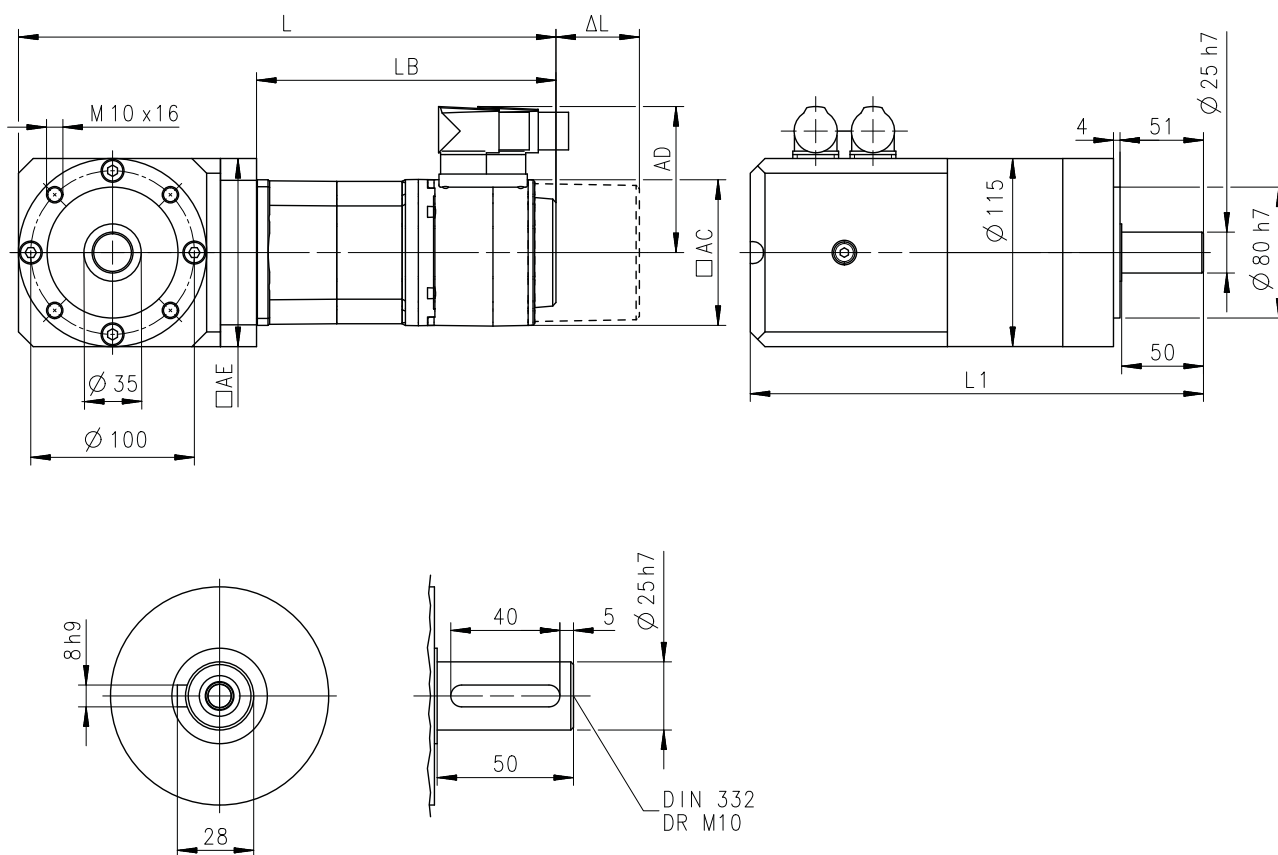
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



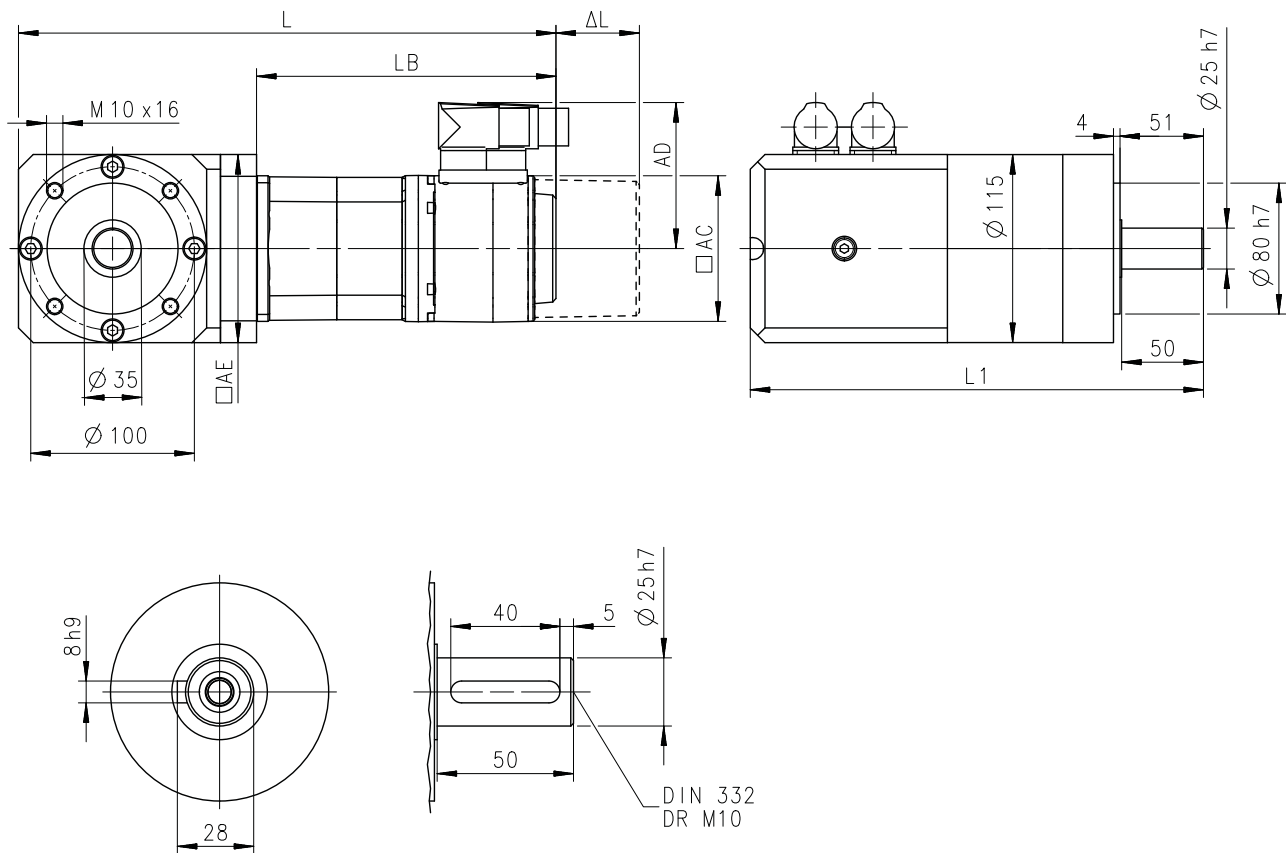
8800812-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	277	277	277	277	277	277	277	277	277	277	277
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115



g700-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800812-00

Motor			MCS 12
			D41- D41L
Total length	L	mm	333.5
Gearbox length	L1	mm	304.5
Motor length	LB	mm	188
Motor diameter	AC	mm	116
Motor/connection distance	AD	mm	105
Gearbox diameter	AE	mm	115

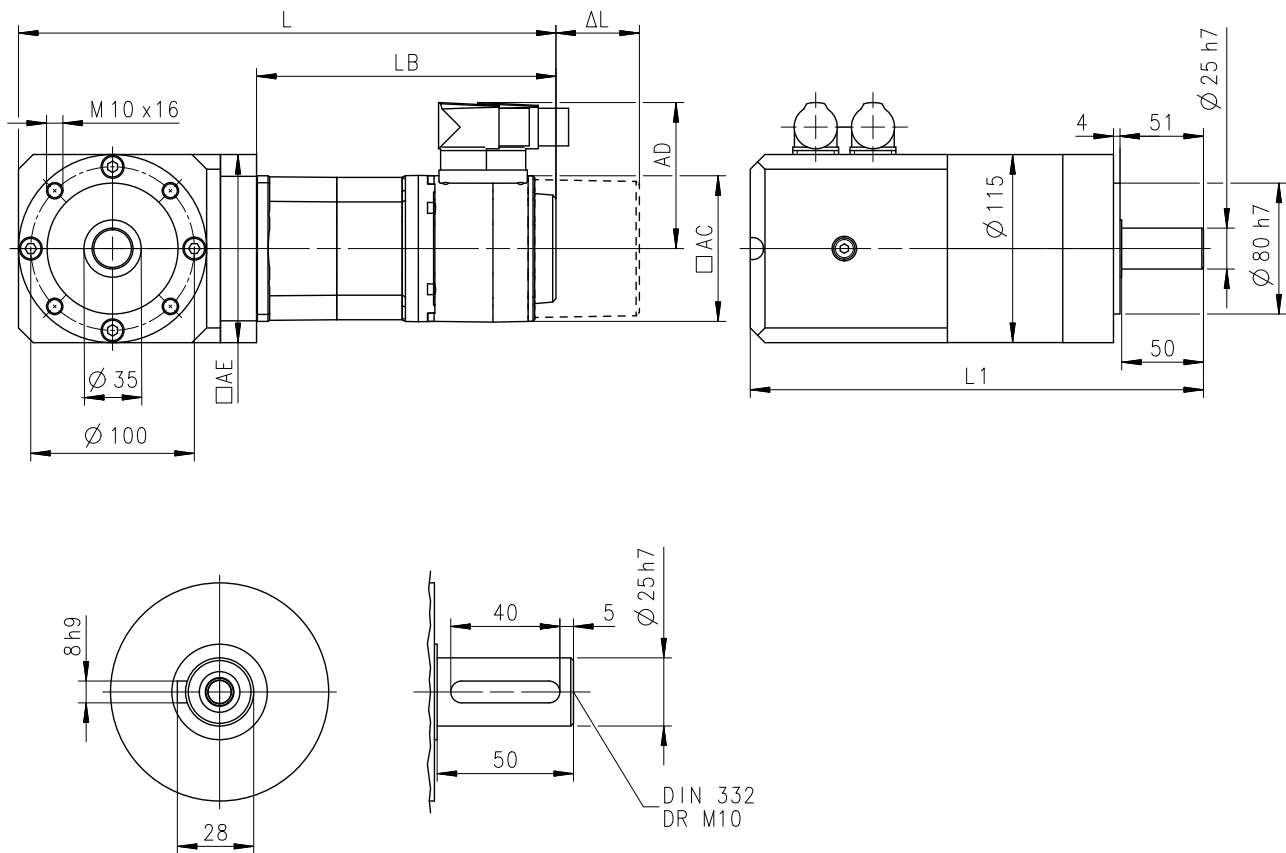
Technical data

Bevel gearbox g700-B
Basic dimensions



g700-B260 with MCS14

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800812-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	249.5	249.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140

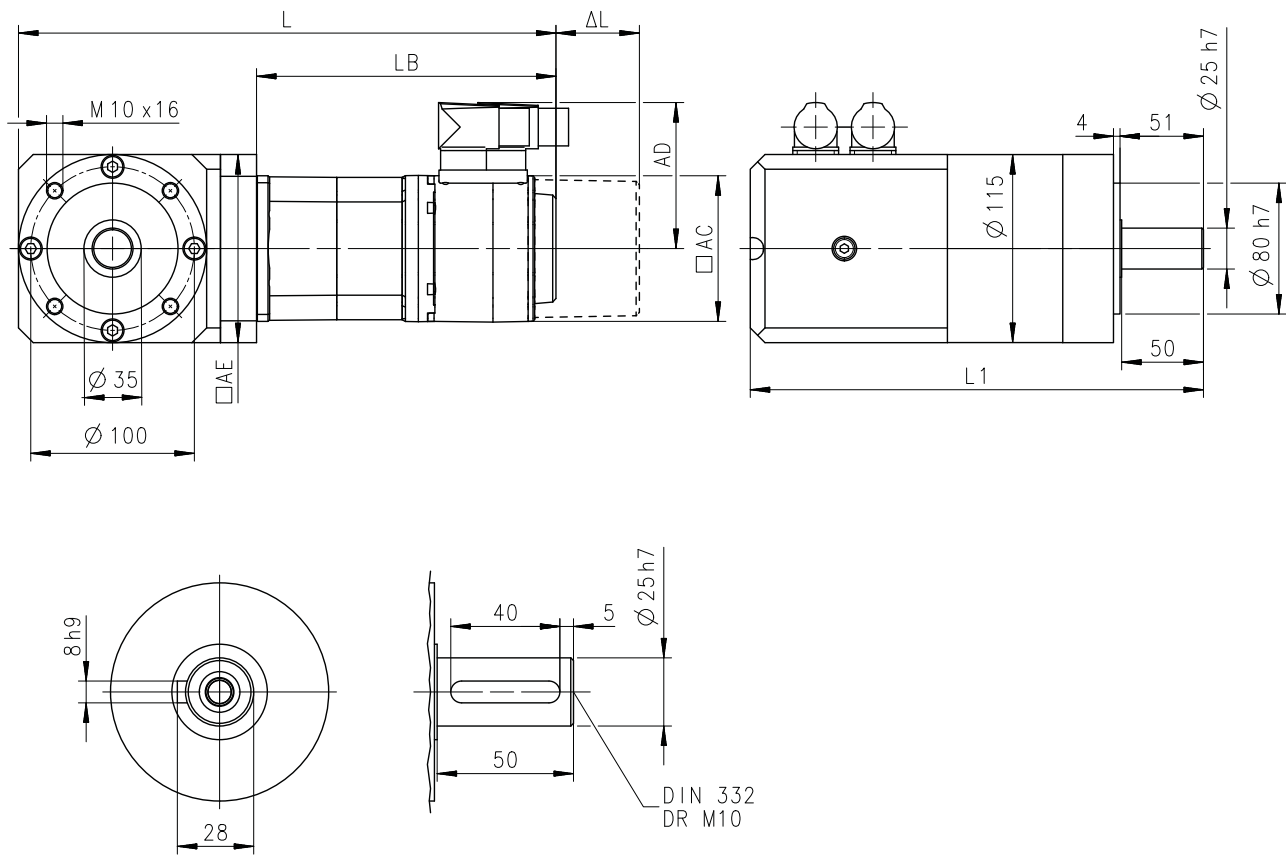


Technical data

Bevel gearbox g700-B
Basic dimensions

g700-B260 with MCS14

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800812-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	277	277
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140

Technical data

Bevel gearbox g720-B
The modular system



Bevel gearbox g720-B

The modular system

g720-B bevel planetary gearbox with MCS synchronous servo motor

Gearbox		g720-B44	g720-B130	g720-B260
Min. motor assignment		MCS06	MCS06	MCS06
Max. motor assignment		MCS06	MCS12	MCS14
Technical data				
Max. output torque	Nm	44	130	260
Min. input torque	Nm	0.6	0.6	0.6
Max. input torque	Nm	0.6	17	42
Mounting position		Any		
Color		Primed Painted in RAL colors		
Surface and corrosion protection		OKS-G Different types of OKS		
Output shaft				
Solid shaft with featherkey	mm	16 x 28	20 x 36	25 x 50
Smooth solid shaft	mm	16 x 28	20 x 36	25 x 50
Shaft material		Steel		
Shaft sealing ring material		NBR		
Gearbox design		Without foot with centering		
Gearbox stages		1/2/3	1/2/3	1/2/3
Output flange	mm	60	80	120
Lubricant		Standard Food compatible		
Cooling		Self-ventilated Forced ventilated		
Motor connection		Connector Terminal box		
Holding brake		Without With		
Feedback				
Without functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
With functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
Temperature monitoring		MCS06: PT1000 temperature sensor MCS09 ... MCS19: PT1000 temperature sensor and 2x PTC thermistor		



Gearbox data

g720-B44, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	14.0	16	2
4	19.0	16	3
5	24.0	16	3
7	25.0	16	3
8	18.0	16	3
10	15.0	16	3

g720-B44, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	44.0	18	3
12	44.0	18	4
15	44.0	18	4
16	44.0	18	4
20	44.0	18	4
25	40.0	18	4
32	44.0	18	4
40	40.0	18	4

g720-B44, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
60	44.0	21	4
80	44.0	21	4
100	44.0	21	4

g720-B130, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	40.0	13	5
4	53.0	13	7
5	67.0	13	8
7	65.0	13	9
8	50.0	13	9
10	38.0	13	9

Technical data

Bevel gearbox g720-B
Gearbox data



g720-B130, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
9	130	15	9
12	120	15	11
15	110	15	11
16	120	15	12
20	120	15	12
25	110	15	12
32	120	15	12
40	110	15	12
64	50.0	15	9

g720-B130, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
60	110	17	12
80	120	17	12
100	120	17	12
120	110	17	12
160	120	17	12
200	110	17	12
256	120	17	12
320	110	17	12

g720-B260, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
3	80.0	11	10
4	105	11	13
5	130	11	14
8	120	11	15
7	135	11	15
10	95.0	11	15

g720-B260, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/°
9	210	13	16
15	230	13	18
16	260	13	18
12	260	13	18
20	260	13	18
25	230	13	18
32	260	13	18
40	230	13	18
64	120	13	16



g720-B260, 3-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
60	260	15	19
80	260	15	19
100	260	15	19
120	230	15	18
160	260	15	19
200	230	15	18
256	260	15	18
320	230	15	18

Radial forces and axial forces

Gearbox			g720-B44	g720-B44	g720-B44	g720-B130	g720-B130	g720-B130	g720-B260	g720-B260	g720-B260
Number of stages	z		1	2	3	1	2	3	1	2	3
Bearing service life 20000 h											
Speed		rpm	100	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	900	900	900	2050	2050	2050	2950	2950	2950
Axial force	F_{ax}	N	1000	1000	1000	2500	2500	2500	2500	2500	2500
Bearing service life 30000 h											
Speed		rpm	100	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	700	700	700	1700	1700	1700	2400	2400	2400
Axial force	F_{ax}	N	800	800	800	2000	2000	2000	2100	2100	2100
Max. radial force	$F_{\text{rad, max}}$	N	1500	1500	1500	2500	2500	2500	4000	4000	4000
Max. axial force	$F_{\text{ax, max}}$	N	1950	1950	1950	3800	3800	3800	3800	3800	3800

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.0	1013	5.3	19.0	506	0.395	4	B44	06C41-	1	4.2
2.0	1013	5.3	19.0	506	0.395	4	B44	06C41L	1	4.2
2.5	810	5.3	24.0	405	0.380	5	B44	06C41-	1	4.2
2.5	810	5.3	24.0	405	0.380	5	B44	06C41L	1	4.2
3.5	579	5.1	25.0	289	0.368	7	B44	06C41-	1	4.2
3.5	579	5.1	25.0	289	0.368	7	B44	06C41L	1	4.2
4.2	506	4.0	18.0	253	0.365	8	B44	06C41-	1	4.2
4.2	506	4.0	18.0	253	0.365	8	B44	06C41L	1	4.2
5.2	338	5.0	44.0	169	0.487	12	B44	06C41-	2	4.4
5.2	338	5.0	44.0	169	0.487	12	B44	06C41L	2	4.4
5.5	405	2.7	15.0	203	0.362	10	B44	06C41-	1	4.2
5.5	405	2.7	15.0	203	0.362	10	B44	06C41L	1	4.2
6.9	270	4.4	44.0	135	0.373	15	B44	06C41-	2	4.4
6.9	270	4.4	44.0	135	0.373	15	B44	06C41L	2	4.4
7.6	253	4.1	44.0	127	0.381	16	B44	06C41-	2	4.4
7.6	253	4.1	44.0	127	0.381	16	B44	06C41L	2	4.4
10.0	203	3.6	44.0	101	0.372	20	B44	06C41-	2	4.4
10.0	203	3.6	44.0	101	0.372	20	B44	06C41L	2	4.4
13.0	162	2.9	40.0	81.0	0.371	25	B44	06C41-	2	4.4
13.0	162	2.9	40.0	81.0	0.371	25	B44	06C41L	2	4.4
17.0	127	2.5	44.0	63.0	0.362	32	B44	06C41-	2	4.4
17.0	127	2.5	44.0	63.0	0.362	32	B44	06C41L	2	4.4
17.0	101	5.1	110	51.0	1.057	40	B130	06C41-	2	8.4
17.0	101	5.1	110	51.0	1.057	40	B130	06C41L	2	8.4
21.0	101	1.9	40.0	51.0	0.362	40	B44	06C41-	2	4.4
21.0	101	1.9	40.0	51.0	0.362	40	B44	06C41L	2	4.4
27.0	67.5	3.5	110	34.0	1.344	60	B130	06C41-	3	8.9
27.0	67.5	3.5	110	34.0	1.344	60	B130	06C41L	3	8.9
31.0	67.5	1.4	44.0	34.0	0.372	60	B44	06C41-	3	4.6
31.0	67.5	1.4	44.0	34.0	0.372	60	B44	06C41L	3	4.6
31.0	63.3	1.6	50.0	32.0	1.057	64	B130	06C41-	2	8.4
31.0	63.3	1.6	50.0	32.0	1.057	64	B130	06C41L	2	8.4
31.0	63.3	3.7	120	32.0	1.995	64	B260	06C41-	2	17
31.0	63.3	3.7	120	32.0	1.995	64	B260	06C41L	2	17
39.0	50.6	2.9	120	25.0	1.095	80	B130	06C41-	3	8.9
39.0	50.6	2.9	120	25.0	1.095	80	B130	06C41L	3	8.9
40.0	50.6	1.1	44.0	25.0	0.371	80	B44	06C41-	3	4.6
40.0	50.6	1.1	44.0	25.0	0.371	80	B44	06C41L	3	4.6
50.0	40.5	2.4	120	20.0	1.094	100	B130	06C41-	3	8.9
50.0	40.5	2.4	120	20.0	1.094	100	B130	06C41L	3	8.9
51.0	33.8	3.9	230	17.0	2.803	120	B260	06C41-	3	19
51.0	33.8	3.9	230	17.0	2.803	120	B260	06C41L	3	19
58.0	33.8	1.9	110	17.0	1.350	120	B130	06C41-	3	8.9
58.0	33.8	1.9	110	17.0	1.350	120	B130	06C41L	3	8.9
74.0	25.3	3.3	260	13.0	1.997	160	B260	06C41-	3	19
74.0	25.3	3.3	260	13.0	1.997	160	B260	06C41L	3	19
76.0	25.3	1.6	120	13.0	1.056	160	B130	06C41-	3	8.9
76.0	25.3	1.6	120	13.0	1.056	160	B130	06C41L	3	8.9



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
89.0	20.3	1.2	110	10.0	1.056	200	B130	06C41-	3	8.9
89.0	20.3	1.2	110	10.0	1.056	200	B130	06C41L	3	8.9
92.0	20.3	2.5	230	10.0	1.997	200	B260	06C41-	3	19
92.0	20.3	2.5	230	10.0	1.997	200	B260	06C41L	3	19
111	15.8	1.1	120	8.0	1.057	256	B130	06C41-	3	8.9
111	15.8	1.1	120	8.0	1.057	256	B130	06C41L	3	8.9
115	15.8	2.3	260	8.0	1.995	256	B260	06C41-	3	19
115	15.8	2.3	260	8.0	1.995	256	B260	06C41L	3	19
134	12.7	1.7	230	6.0	1.995	320	B260	06C41-	3	19
134	12.7	1.7	230	6.0	1.995	320	B260	06C41L	3	19

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.31 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
1.6	1500	5.7	19.0	750	0.395	4	B44	06C60-	1	4.2
1.6	1500	5.7	19.0	750	0.395	4	B44	06C60L	1	4.2
2.0	1200	5.7	24.0	600	0.380	5	B44	06C60-	1	4.2
2.0	1200	5.7	24.0	600	0.380	5	B44	06C60L	1	4.2
2.9	857	5.5	25.0	429	0.368	7	B44	06C60-	1	4.2
2.9	857	5.5	25.0	429	0.368	7	B44	06C60L	1	4.2
3.4	750	4.8	18.0	375	0.365	8	B44	06C60-	1	4.2
3.4	750	4.8	18.0	375	0.365	8	B44	06C60L	1	4.2
4.2	500	5.4	44.0	250	0.487	12	B44	06C60-	2	4.4
4.2	500	5.4	44.0	250	0.487	12	B44	06C60L	2	4.4
4.5	600	3.3	15.0	300	0.362	10	B44	06C60-	1	4.2
4.5	600	3.3	15.0	300	0.362	10	B44	06C60L	1	4.2
5.6	400	4.7	44.0	200	0.373	15	B44	06C60-	2	4.4
5.6	400	4.7	44.0	200	0.373	15	B44	06C60L	2	4.4
6.2	375	4.4	44.0	188	0.381	16	B44	06C60-	2	4.4
6.2	375	4.4	44.0	188	0.381	16	B44	06C60L	2	4.4
8.1	300	3.8	44.0	150	0.372	20	B44	06C60-	2	4.4
8.1	300	3.8	44.0	150	0.372	20	B44	06C60L	2	4.4
11.0	240	3.2	40.0	120	0.371	25	B44	06C60-	2	4.4
11.0	240	3.2	40.0	120	0.371	25	B44	06C60L	2	4.4
14.0	188	2.8	44.0	94.0	0.362	32	B44	06C60-	2	4.4
14.0	188	2.8	44.0	94.0	0.362	32	B44	06C60L	2	4.4
18.0	150	2.3	40.0	75.0	0.362	40	B44	06C60-	2	4.4
18.0	150	2.3	40.0	75.0	0.362	40	B44	06C60L	2	4.4
20.0	100	4.2	110	50.0	1.344	60	B130	06C60-	3	8.9
20.0	100	4.2	110	50.0	1.344	60	B130	06C60L	3	8.9
26.0	100	1.7	44.0	50.0	0.372	60	B44	06C60-	3	4.6
26.0	100	1.7	44.0	50.0	0.372	60	B44	06C60L	3	4.6
26.0	93.8	2.0	50.0	47.0	1.057	64	B130	06C60-	2	8.4
26.0	93.8	2.0	50.0	47.0	1.057	64	B130	06C60L	2	8.4
30.0	75.0	3.5	120	38.0	1.095	80	B130	06C60-	3	8.9
30.0	75.0	3.5	120	38.0	1.095	80	B130	06C60L	3	8.9
34.0	75.0	1.3	44.0	38.0	0.371	80	B44	06C60-	3	4.6
34.0	75.0	1.3	44.0	38.0	0.371	80	B44	06C60L	3	4.6
41.0	60.0	1.1	44.0	30.0	0.371	100	B44	06C60-	3	4.6
41.0	60.0	1.1	44.0	30.0	0.371	100	B44	06C60L	3	4.6
41.0	60.0	2.9	120	30.0	1.094	100	B130	06C60-	3	8.9
41.0	60.0	2.9	120	30.0	1.094	100	B130	06C60L	3	8.9
49.0	50.0	2.3	110	25.0	1.350	120	B130	06C60-	3	8.9
49.0	50.0	2.3	110	25.0	1.350	120	B130	06C60L	3	8.9
63.0	37.5	1.9	120	19.0	1.056	160	B130	06C60-	3	8.9
63.0	37.5	1.9	120	19.0	1.056	160	B130	06C60L	3	8.9
74.0	30.0	1.5	110	15.0	1.056	200	B130	06C60-	3	8.9
74.0	30.0	1.5	110	15.0	1.056	200	B130	06C60L	3	8.9
92.0	23.4	1.3	120	12.0	1.057	256	B130	06C60-	3	8.9
92.0	23.4	1.3	120	12.0	1.057	256	B130	06C60L	3	8.9
106	18.8	1.0	110	9.0	1.057	320	B130	06C60-	3	8.9
106	18.8	1.0	110	9.0	1.057	320	B130	06C60L	3	8.9



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.0	1350	5.3	40.0	675	1.622	3	B130	06F41-	1	8.2
3.0	1350	5.3	40.0	675	1.622	3	B130	06F41L	1	8.2
3.3	1350	3.3	14.0	675	0.590	3	B44	06F41-	1	4.6
3.3	1350	3.3	14.0	675	0.590	3	B44	06F41L	1	4.6
4.5	1013	2.7	19.0	506	0.475	4	B44	06F41-	1	4.6
4.5	1013	2.7	19.0	506	0.475	4	B44	06F41L	1	4.6
5.6	810	2.7	24.0	405	0.460	5	B44	06F41-	1	4.6
5.6	810	2.7	24.0	405	0.460	5	B44	06F41L	1	4.6
7.9	579	2.6	25.0	289	0.448	7	B44	06F41-	1	4.6
7.9	579	2.6	25.0	289	0.448	7	B44	06F41L	1	4.6
7.9	506	5.5	50.0	253	1.159	8	B130	06F41-	1	8.2
7.9	506	5.5	50.0	253	1.159	8	B130	06F41L	1	8.2
8.9	506	2.0	18.0	253	0.445	8	B44	06F41-	1	4.6
8.9	506	2.0	18.0	253	0.445	8	B44	06F41L	1	4.6
9.3	450	3.1	44.0	225	0.571	9	B44	06F41-	2	4.8
9.3	450	3.1	44.0	225	0.571	9	B44	06F41L	2	4.8
11.0	405	1.4	15.0	203	0.442	10	B44	06F41-	1	4.6
11.0	405	1.4	15.0	203	0.442	10	B44	06F41L	1	4.6
11.0	405	3.4	38.0	203	1.141	10	B130	06F41-	1	8.2
11.0	405	3.4	38.0	203	1.141	10	B130	06F41L	1	8.2
13.0	338	2.5	44.0	169	0.567	12	B44	06F41-	2	4.8
13.0	338	2.5	44.0	169	0.567	12	B44	06F41L	2	4.8
17.0	270	2.2	44.0	135	0.453	15	B44	06F41-	2	4.8
17.0	270	2.2	44.0	135	0.453	15	B44	06F41L	2	4.8
17.0	203	5.4	120	101	1.179	20	B130	06F41-	2	8.8
17.0	203	5.4	120	101	1.179	20	B130	06F41L	2	8.8
18.0	253	2.1	44.0	127	0.461	16	B44	06F41-	2	4.8
18.0	253	2.1	44.0	127	0.461	16	B44	06F41L	2	4.8
22.0	203	1.8	44.0	101	0.452	20	B44	06F41-	2	4.8
22.0	203	1.8	44.0	101	0.452	20	B44	06F41L	2	4.8
24.0	162	4.0	110	81.0	1.176	25	B130	06F41-	2	8.8
24.0	162	4.0	110	81.0	1.176	25	B130	06F41L	2	8.8
27.0	162	1.5	40.0	81.0	0.451	25	B44	06F41-	2	4.8
27.0	162	1.5	40.0	81.0	0.451	25	B44	06F41L	2	4.8
32.0	127	3.4	120	63.0	1.138	32	B130	06F41-	2	8.8
32.0	127	3.4	120	63.0	1.138	32	B130	06F41L	2	8.8
34.0	101	5.3	230	51.0	2.078	40	B260	06F41-	2	17
34.0	101	5.3	230	51.0	2.078	40	B260	06F41L	2	17
35.0	127	1.3	44.0	63.0	0.442	32	B44	06F41-	2	4.8
35.0	127	1.3	44.0	63.0	0.442	32	B44	06F41L	2	4.8
43.0	101	2.6	110	51.0	1.137	40	B130	06F41-	2	8.8
43.0	101	2.6	110	51.0	1.137	40	B130	06F41L	2	8.8
50.0	67.5	4.1	260	34.0	2.901	60	B260	06F41-	3	19
50.0	67.5	4.1	260	34.0	2.901	60	B260	06F41L	3	19
63.0	67.5	1.8	110	34.0	1.424	60	B130	06F41-	3	9.3
63.0	67.5	1.8	110	34.0	1.424	60	B130	06F41L	3	9.3
65.0	63.3	1.9	120	32.0	2.075	64	B260	06F41-	2	17
65.0	63.3	1.9	120	32.0	2.075	64	B260	06F41L	2	17
76.0	50.6	3.1	260	25.0	2.232	80	B260	06F41-	3	19
76.0	50.6	3.1	260	25.0	2.232	80	B260	06F41L	3	19
82.0	50.6	1.5	120	25.0	1.175	80	B130	06F41-	3	9.3

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
82.0	50.6	1.5	120	25.0	1.175	80	B130	06F41L	3	9.3
101	40.5	1.2	120	20.0	1.174	100	B130	06F41-	3	9.3
101	40.5	1.2	120	20.0	1.174	100	B130	06F41L	3	9.3
101	40.5	2.6	260	20.0	2.225	100	B260	06F41-	3	19
101	40.5	2.6	260	20.0	2.225	100	B260	06F41L	3	19
118	33.8	2.0	230	17.0	2.883	120	B260	06F41-	3	19
118	33.8	2.0	230	17.0	2.883	120	B260	06F41L	3	19
156	25.3	1.7	260	13.0	2.077	160	B260	06F41-	3	19
156	25.3	1.7	260	13.0	2.077	160	B260	06F41L	3	19
185	20.3	1.2	230	10.0	2.077	200	B260	06F41-	3	19
185	20.3	1.2	230	10.0	2.077	200	B260	06F41L	3	19
230	15.8	1.1	260	8.0	2.075	256	B260	06F41-	3	19
230	15.8	1.1	260	8.0	2.075	256	B260	06F41L	3	19



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.4	2000	3.8	14.0	1000	0.590	3	B44	06F60-	1	4.6
2.4	2000	3.8	14.0	1000	0.590	3	B44	06F60L	1	4.6
3.3	1500	3.2	19.0	750	0.475	4	B44	06F60-	1	4.6
3.3	1500	3.2	19.0	750	0.475	4	B44	06F60L	1	4.6
4.1	1200	3.2	24.0	600	0.460	5	B44	06F60-	1	4.6
4.1	1200	3.2	24.0	600	0.460	5	B44	06F60L	1	4.6
5.8	857	3.0	25.0	429	0.448	7	B44	06F60-	1	4.6
5.8	857	3.0	25.0	429	0.448	7	B44	06F60L	1	4.6
6.6	667	3.7	44.0	333	0.571	9	B44	06F60-	2	4.8
6.6	667	3.7	44.0	333	0.571	9	B44	06F60L	2	4.8
6.7	750	2.7	18.0	375	0.445	8	B44	06F60-	1	4.6
6.7	750	2.7	18.0	375	0.445	8	B44	06F60L	1	4.6
7.7	600	4.6	38.0	300	1.141	10	B130	06F60-	1	8.2
7.7	600	4.6	38.0	300	1.141	10	B130	06F60L	1	8.2
8.3	600	1.8	15.0	300	0.442	10	B44	06F60-	1	4.6
8.3	600	1.8	15.0	300	0.442	10	B44	06F60L	1	4.6
9.4	500	3.0	44.0	250	0.567	12	B44	06F60-	2	4.8
9.4	500	3.0	44.0	250	0.567	12	B44	06F60L	2	4.8
12.0	400	2.6	44.0	200	0.453	15	B44	06F60-	2	4.8
12.0	400	2.6	44.0	200	0.453	15	B44	06F60L	2	4.8
13.0	375	2.4	44.0	188	0.461	16	B44	06F60-	2	4.8
13.0	375	2.4	44.0	188	0.461	16	B44	06F60L	2	4.8
16.0	240	5.3	110	120	1.176	25	B130	06F60-	2	8.8
16.0	240	5.3	110	120	1.176	25	B130	06F60L	2	8.8
17.0	300	2.1	44.0	150	0.452	20	B44	06F60-	2	4.8
17.0	300	2.1	44.0	150	0.452	20	B44	06F60L	2	4.8
20.0	240	1.8	40.0	120	0.451	25	B44	06F60-	2	4.8
20.0	240	1.8	40.0	120	0.451	25	B44	06F60L	2	4.8
22.0	188	4.6	120	94.0	1.138	32	B130	06F60-	2	8.8
22.0	188	4.6	120	94.0	1.138	32	B130	06F60L	2	8.8
26.0	188	1.5	44.0	94.0	0.442	32	B44	06F60-	2	4.8
26.0	188	1.5	44.0	94.0	0.442	32	B44	06F60L	2	4.8
30.0	150	3.4	110	75.0	1.137	40	B130	06F60-	2	8.8
30.0	150	3.4	110	75.0	1.137	40	B130	06F60L	2	8.8
30.0	100	5.5	260	50.0	2.901	60	B260	06F60-	3	19
30.0	100	5.5	260	50.0	2.901	60	B260	06F60L	3	19
32.0	150	1.3	40.0	75.0	0.442	40	B44	06F60-	2	4.8
32.0	150	1.3	40.0	75.0	0.442	40	B44	06F60L	2	4.8
46.0	93.8	1.1	50.0	47.0	1.137	64	B130	06F60-	2	8.8
46.0	93.8	1.1	50.0	47.0	1.137	64	B130	06F60L	2	8.8
47.0	100	2.3	110	50.0	1.424	60	B130	06F60-	3	9.3
47.0	100	2.3	110	50.0	1.424	60	B130	06F60L	3	9.3
48.0	93.8	2.5	120	47.0	2.075	64	B260	06F60-	2	17
48.0	93.8	2.5	120	47.0	2.075	64	B260	06F60L	2	17
49.0	75.0	4.2	260	38.0	2.232	80	B260	06F60-	3	19
49.0	75.0	4.2	260	38.0	2.232	80	B260	06F60L	3	19
61.0	75.0	2.0	120	38.0	1.175	80	B130	06F60-	3	9.3
61.0	75.0	2.0	120	38.0	1.175	80	B130	06F60L	3	9.3
68.0	60.0	3.4	260	30.0	2.225	100	B260	06F60-	3	19
68.0	60.0	3.4	260	30.0	2.225	100	B260	06F60L	3	19
76.0	60.0	1.6	120	30.0	1.174	100	B130	06F60-	3	9.3

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
76.0	60.0	1.6	120	30.0	1.174	100	B130	06F60L	3	9.3
87.0	50.0	1.3	110	25.0	1.430	120	B130	06F60-	3	9.3
87.0	50.0	1.3	110	25.0	1.430	120	B130	06F60L	3	9.3
89.0	50.0	2.6	230	25.0	2.883	120	B260	06F60-	3	19
89.0	50.0	2.6	230	25.0	2.883	120	B260	06F60L	3	19
114	37.5	1.1	120	19.0	1.136	160	B130	06F60-	3	9.3
114	37.5	1.1	120	19.0	1.136	160	B130	06F60L	3	9.3
117	37.5	2.2	260	19.0	2.077	160	B260	06F60-	3	19
117	37.5	2.2	260	19.0	2.077	160	B260	06F60L	3	19
139	30.0	1.7	230	15.0	2.077	200	B260	06F60-	3	19
139	30.0	1.7	230	15.0	2.077	200	B260	06F60L	3	19
173	23.4	1.5	260	12.0	2.075	256	B260	06F60-	3	19
173	23.4	1.5	260	12.0	2.075	256	B260	06F60L	3	19
202	18.8	1.1	230	9.0	2.075	320	B260	06F60-	3	19
202	18.8	1.1	230	9.0	2.075	320	B260	06F60L	3	19



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.9	1350	4.2	40.0	675	1.702	3	B130	06I41-	1	8.9
3.9	1350	4.2	40.0	675	1.702	3	B130	06I41L	1	8.9
4.2	1350	2.6	14.0	675	0.670	3	B44	06I41-	1	5.3
4.2	1350	2.6	14.0	675	0.670	3	B44	06I41L	1	5.3
4.8	1013	5.9	53.0	506	1.394	4	B130	06I41-	1	8.9
4.8	1013	5.9	53.0	506	1.394	4	B130	06I41L	1	8.9
5.7	1013	2.1	19.0	506	0.555	4	B44	06I41-	1	5.3
5.7	1013	2.1	19.0	506	0.555	4	B44	06I41L	1	5.3
7.1	810	2.1	24.0	405	0.540	5	B44	06I41-	1	5.3
7.1	810	2.1	24.0	405	0.540	5	B44	06I41L	1	5.3
9.9	579	2.1	25.0	289	0.528	7	B44	06I41-	1	5.3
9.9	579	2.1	25.0	289	0.528	7	B44	06I41L	1	5.3
10.0	506	4.4	50.0	253	1.239	8	B130	06I41-	1	8.9
10.0	506	4.4	50.0	253	1.239	8	B130	06I41L	1	8.9
11.0	506	1.6	18.0	253	0.525	8	B44	06I41-	1	5.3
11.0	506	1.6	18.0	253	0.525	8	B44	06I41L	1	5.3
12.0	450	2.5	44.0	225	0.651	9	B44	06I41-	2	5.5
12.0	450	2.5	44.0	225	0.651	9	B44	06I41L	2	5.5
14.0	405	1.1	15.0	203	0.522	10	B44	06I41-	1	5.3
14.0	405	1.1	15.0	203	0.522	10	B44	06I41L	1	5.3
14.0	405	2.8	38.0	203	1.221	10	B130	06I41-	1	8.9
14.0	405	2.8	38.0	203	1.221	10	B130	06I41L	1	8.9
16.0	270	5.3	110	135	1.510	15	B130	06I41-	2	9.5
16.0	270	5.3	110	135	1.510	15	B130	06I41L	2	9.5
17.0	338	2.0	44.0	169	0.647	12	B44	06I41-	2	5.5
17.0	338	2.0	44.0	169	0.647	12	B44	06I41L	2	5.5
17.0	253	5.4	120	127	1.301	16	B130	06I41-	2	9.5
17.0	253	5.4	120	127	1.301	16	B130	06I41L	2	9.5
21.0	270	1.8	44.0	135	0.533	15	B44	06I41-	2	5.5
21.0	270	1.8	44.0	135	0.533	15	B44	06I41L	2	5.5
22.0	253	1.7	44.0	127	0.541	16	B44	06I41-	2	5.5
22.0	253	1.7	44.0	127	0.541	16	B44	06I41L	2	5.5
23.0	203	4.3	120	101	1.259	20	B130	06I41-	2	9.5
23.0	203	4.3	120	101	1.259	20	B130	06I41L	2	9.5
28.0	203	1.4	44.0	101	0.532	20	B44	06I41-	2	5.5
28.0	203	1.4	44.0	101	0.532	20	B44	06I41L	2	5.5
32.0	162	3.2	110	81.0	1.256	25	B130	06I41-	2	9.5
32.0	162	3.2	110	81.0	1.256	25	B130	06I41L	2	9.5
32.0	127	5.9	260	63.0	2.161	32	B260	06I41-	2	18
32.0	127	5.9	260	63.0	2.161	32	B260	06I41L	2	18
34.0	162	1.2	40.0	81.0	0.531	25	B44	06I41-	2	5.5
34.0	162	1.2	40.0	81.0	0.531	25	B44	06I41L	2	5.5
43.0	127	2.8	120	63.0	1.218	32	B130	06I41-	2	9.5
43.0	127	2.8	120	63.0	1.218	32	B130	06I41L	2	9.5
44.0	127	1.0	44.0	63.0	0.522	32	B44	06I41-	2	5.5
44.0	127	1.0	44.0	63.0	0.522	32	B44	06I41L	2	5.5
47.0	101	4.2	230	51.0	2.158	40	B260	06I41-	2	18
47.0	101	4.2	230	51.0	2.158	40	B260	06I41L	2	18
54.0	101	2.0	110	51.0	1.217	40	B130	06I41-	2	9.5
54.0	101	2.0	110	51.0	1.217	40	B130	06I41L	2	9.5
69.0	67.5	3.3	260	34.0	2.981	60	B260	06I41-	3	20

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
69.0	67.5	3.3	260	34.0	2.981	60	B260	06I41L	3	20
78.0	67.5	1.4	110	34.0	1.504	60	B130	06I41-	3	10
78.0	67.5	1.4	110	34.0	1.504	60	B130	06I41L	3	10
81.0	63.3	1.5	120	32.0	2.155	64	B260	06I41-	2	18
81.0	63.3	1.5	120	32.0	2.155	64	B260	06I41L	2	18
102	50.6	1.2	120	25.0	1.255	80	B130	06I41-	3	10
102	50.6	1.2	120	25.0	1.255	80	B130	06I41L	3	10
102	50.6	2.5	260	25.0	2.312	80	B260	06I41-	3	20
102	50.6	2.5	260	25.0	2.312	80	B260	06I41L	3	20
128	40.5	2.0	260	20.0	2.305	100	B260	06I41-	3	20
128	40.5	2.0	260	20.0	2.305	100	B260	06I41L	3	20
148	33.8	1.6	230	17.0	2.963	120	B260	06I41-	3	20
148	33.8	1.6	230	17.0	2.963	120	B260	06I41L	3	20
194	25.3	1.3	260	13.0	2.157	160	B260	06I41-	3	20
194	25.3	1.3	260	13.0	2.157	160	B260	06I41L	3	20



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.1	2000	4.7	40.0	1000	1.702	3	B130	06I60-	1	8.9
3.1	2000	4.7	40.0	1000	1.702	3	B130	06I60L	1	8.9
3.3	2000	2.9	14.0	1000	0.670	3	B44	06I60-	1	5.3
3.3	2000	2.9	14.0	1000	0.670	3	B44	06I60L	1	5.3
4.5	1500	2.4	19.0	750	0.555	4	B44	06I60-	1	5.3
4.5	1500	2.4	19.0	750	0.555	4	B44	06I60L	1	5.3
5.7	1200	2.4	24.0	600	0.540	5	B44	06I60-	1	5.3
5.7	1200	2.4	24.0	600	0.540	5	B44	06I60L	1	5.3
7.9	857	2.3	25.0	429	0.528	7	B44	06I60-	1	5.3
7.9	857	2.3	25.0	429	0.528	7	B44	06I60L	1	5.3
7.9	750	5.5	50.0	375	1.239	8	B130	06I60-	1	8.9
7.9	750	5.5	50.0	375	1.239	8	B130	06I60L	1	8.9
8.9	750	2.0	18.0	375	0.525	8	B44	06I60-	1	5.3
8.9	750	2.0	18.0	375	0.525	8	B44	06I60L	1	5.3
9.6	667	2.8	44.0	333	0.651	9	B44	06I60-	2	5.5
9.6	667	2.8	44.0	333	0.651	9	B44	06I60L	2	5.5
11.0	600	1.4	15.0	300	0.522	10	B44	06I60-	1	5.3
11.0	600	1.4	15.0	300	0.522	10	B44	06I60L	1	5.3
11.0	600	3.4	38.0	300	1.221	10	B130	06I60-	1	8.9
11.0	600	3.4	38.0	300	1.221	10	B130	06I60L	1	8.9
13.0	500	2.2	44.0	250	0.647	12	B44	06I60-	2	5.5
13.0	500	2.2	44.0	250	0.647	12	B44	06I60L	2	5.5
17.0	400	2.0	44.0	200	0.533	15	B44	06I60-	2	5.5
17.0	400	2.0	44.0	200	0.533	15	B44	06I60L	2	5.5
17.0	300	5.3	120	150	1.259	20	B130	06I60-	2	9.5
17.0	300	5.3	120	150	1.259	20	B130	06I60L	2	9.5
18.0	375	1.8	44.0	188	0.541	16	B44	06I60-	2	5.5
18.0	375	1.8	44.0	188	0.541	16	B44	06I60L	2	5.5
22.0	300	1.6	44.0	150	0.532	20	B44	06I60-	2	5.5
22.0	300	1.6	44.0	150	0.532	20	B44	06I60L	2	5.5
24.0	240	4.0	110	120	1.256	25	B130	06I60-	2	9.5
24.0	240	4.0	110	120	1.256	25	B130	06I60L	2	9.5
27.0	240	1.3	40.0	120	0.531	25	B44	06I60-	2	5.5
27.0	240	1.3	40.0	120	0.531	25	B44	06I60L	2	5.5
32.0	188	3.4	120	94.0	1.218	32	B130	06I60-	2	9.5
32.0	188	3.4	120	94.0	1.218	32	B130	06I60L	2	9.5
34.0	150	5.3	230	75.0	2.158	40	B260	06I60-	2	18
34.0	150	5.3	230	75.0	2.158	40	B260	06I60L	2	18
35.0	188	1.2	44.0	94.0	0.522	32	B44	06I60-	2	5.5
35.0	188	1.2	44.0	94.0	0.522	32	B44	06I60L	2	5.5
43.0	150	2.6	110	75.0	1.217	40	B130	06I60-	2	9.5
43.0	150	2.6	110	75.0	1.217	40	B130	06I60L	2	9.5
50.0	100	4.1	260	50.0	2.981	60	B260	06I60-	3	20
50.0	100	4.1	260	50.0	2.981	60	B260	06I60L	3	20
63.0	100	1.8	110	50.0	1.504	60	B130	06I60-	3	10
63.0	100	1.8	110	50.0	1.504	60	B130	06I60L	3	10
65.0	93.8	1.9	120	47.0	2.155	64	B260	06I60-	2	18
65.0	93.8	1.9	120	47.0	2.155	64	B260	06I60L	2	18
76.0	75.0	3.1	260	38.0	2.312	80	B260	06I60-	3	20
76.0	75.0	3.1	260	38.0	2.312	80	B260	06I60L	3	20
82.0	75.0	1.5	120	38.0	1.255	80	B130	06I60-	3	10

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
82.0	75.0	1.5	120	38.0	1.255	80	B130	06I60L	3	10
101	60.0	1.2	120	30.0	1.254	100	B130	06I60-	3	10
101	60.0	1.2	120	30.0	1.254	100	B130	06I60L	3	10
101	60.0	2.6	260	30.0	2.305	100	B260	06I60-	3	20
101	60.0	2.6	260	30.0	2.305	100	B260	06I60L	3	20
118	50.0	2.0	230	25.0	2.963	120	B260	06I60-	3	20
118	50.0	2.0	230	25.0	2.963	120	B260	06I60L	3	20
156	37.5	1.7	260	19.0	2.157	160	B260	06I60-	3	20
156	37.5	1.7	260	19.0	2.157	160	B260	06I60L	3	20
185	30.0	1.2	230	15.0	2.157	200	B260	06I60-	3	20
185	30.0	1.2	230	15.0	2.157	200	B260	06I60L	3	20
230	23.4	1.1	260	12.0	2.155	256	B260	06I60-	3	20
230	23.4	1.1	260	12.0	2.155	256	B260	06I60L	3	20



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.4	1350	2.7	40.0	675	2.502	3	B130	09D41-	1	10
6.4	1350	2.7	40.0	675	2.502	3	B130	09D41L	1	10
8.1	1013	3.9	53.0	506	2.194	4	B130	09D41-	1	10
8.1	1013	3.9	53.0	506	2.194	4	B130	09D41L	1	10
10.0	810	4.2	67.0	405	2.119	5	B130	09D41-	1	10
10.0	810	4.2	67.0	405	2.119	5	B130	09D41L	1	10
14.0	579	4.3	65.0	289	2.053	7	B130	09D41-	1	10
14.0	579	4.3	65.0	289	2.053	7	B130	09D41L	1	10
16.0	450	4.6	130	225	2.344	9	B130	09D41-	2	11
16.0	450	4.6	130	225	2.344	9	B130	09D41L	2	11
17.0	506	2.9	50.0	253	2.039	8	B130	09D41-	1	10
17.0	506	2.9	50.0	253	2.039	8	B130	09D41L	1	10
20.0	405	4.4	95.0	203	2.923	10	B260	09D41-	1	17
20.0	405	4.4	95.0	203	2.923	10	B260	09D41L	1	18
21.0	405	1.8	38.0	203	2.021	10	B130	09D41-	1	10
21.0	405	1.8	38.0	203	2.021	10	B130	09D41L	1	10
21.0	338	4.4	120	169	2.319	12	B130	09D41-	2	11
21.0	338	4.4	120	169	2.319	12	B130	09D41L	2	11
29.0	270	3.4	110	135	2.310	15	B130	09D41-	2	11
29.0	270	3.4	110	135	2.310	15	B130	09D41L	2	11
31.0	253	3.5	120	127	2.101	16	B130	09D41-	2	11
31.0	253	3.5	120	127	2.101	16	B130	09D41L	2	11
41.0	203	2.8	120	101	2.059	20	B130	09D41-	2	11
41.0	203	2.8	120	101	2.059	20	B130	09D41L	2	11
45.0	162	4.4	230	81.0	3.107	25	B260	09D41-	2	19
45.0	162	4.4	230	81.0	3.107	25	B260	09D41L	2	20
53.0	162	2.1	110	81.0	2.056	25	B130	09D41-	2	11
53.0	162	2.1	110	81.0	2.056	25	B130	09D41L	2	11
60.0	127	3.8	260	63.0	2.961	32	B260	09D41-	2	19
60.0	127	3.8	260	63.0	2.961	32	B260	09D41L	2	20
67.0	127	1.8	120	63.0	2.018	32	B130	09D41-	2	11
67.0	127	1.8	120	63.0	2.018	32	B130	09D41L	2	11
82.0	101	2.8	230	51.0	2.958	40	B260	09D41-	2	19
82.0	101	2.8	230	51.0	2.958	40	B260	09D41L	2	20
83.0	101	1.3	110	51.0	2.017	40	B130	09D41-	2	11
83.0	101	1.3	110	51.0	2.017	40	B130	09D41L	2	11
121	67.5	2.1	260	34.0	3.781	60	B260	09D41-	3	21
121	67.5	2.1	260	34.0	3.781	60	B260	09D41L	3	22
160	50.6	1.6	260	25.0	3.112	80	B260	09D41-	3	21
160	50.6	1.6	260	25.0	3.112	80	B260	09D41L	3	22
196	40.5	1.3	260	20.0	3.105	100	B260	09D41-	3	21
196	40.5	1.3	260	20.0	3.105	100	B260	09D41L	3	22
226	33.8	1.0	230	17.0	3.763	120	B260	09D41-	3	21
226	33.8	1.0	230	17.0	3.763	120	B260	09D41L	3	22

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.9	2000	3.1	40.0	1000	2.502	3	B130	09D60-	1	10
4.9	2000	3.1	40.0	1000	2.502	3	B130	09D60L	1	10
6.2	1500	4.3	53.0	750	2.194	4	B130	09D60-	1	10
6.2	1500	4.3	53.0	750	2.194	4	B130	09D60L	1	10
7.7	1200	4.7	67.0	600	2.119	5	B130	09D60-	1	10
7.7	1200	4.7	67.0	600	2.119	5	B130	09D60L	1	10
11.0	857	5.1	65.0	429	2.053	7	B130	09D60-	1	10
11.0	857	5.1	65.0	429	2.053	7	B130	09D60L	1	10
12.0	667	5.2	130	333	2.344	9	B130	09D60-	2	11
12.0	667	5.2	130	333	2.344	9	B130	09D60L	2	11
13.0	750	3.7	50.0	375	2.039	8	B130	09D60-	1	10
13.0	750	3.7	50.0	375	2.039	8	B130	09D60L	1	10
14.0	650	4.2	80.0	325	6.878	3	B260	12D20-	1	20
14.0	650	4.2	80.0	325	6.878	3	B260	12D20L	1	20
15.0	600	5.6	95.0	300	2.923	10	B260	09D60-	1	17
15.0	600	5.6	95.0	300	2.923	10	B260	09D60L	1	18
16.0	650	1.4	40.0	325	5.402	3	B130	12D20-	1	13
16.0	650	1.4	40.0	325	5.402	3	B130	12D20L	1	13
16.0	500	5.0	120	250	2.319	12	B130	09D60-	2	11
16.0	500	5.0	120	250	2.319	12	B130	09D60L	2	11
17.0	600	2.3	38.0	300	2.021	10	B130	09D60-	1	10
17.0	600	2.3	38.0	300	2.021	10	B130	09D60L	1	10
19.0	488	4.7	105	244	6.294	4	B260	12D20-	1	20
19.0	488	4.7	105	244	6.294	4	B260	12D20L	1	20
21.0	488	2.1	53.0	244	5.094	4	B130	12D20-	1	13
21.0	488	2.1	53.0	244	5.094	4	B130	12D20L	1	13
21.0	400	4.2	110	200	2.310	15	B130	09D60-	2	11
21.0	400	4.2	110	200	2.310	15	B130	09D60L	2	11
23.0	390	5.0	130	195	6.086	5	B260	12D20-	1	20
23.0	390	5.0	130	195	6.086	5	B260	12D20L	1	20
23.0	375	4.1	120	188	2.101	16	B130	09D60-	2	11
23.0	375	4.1	120	188	2.101	16	B130	09D60L	2	11
26.0	390	2.2	67.0	195	5.019	5	B130	12D20-	1	13
26.0	390	2.2	67.0	195	5.019	5	B130	12D20L	1	13
30.0	300	3.5	120	150	2.059	20	B130	09D60-	2	11
30.0	300	3.5	120	150	2.059	20	B130	09D60L	2	11
31.0	240	5.6	230	120	3.107	25	B260	09D60-	2	19
31.0	240	5.6	230	120	3.107	25	B260	09D60L	2	20
34.0	279	3.7	135	139	5.911	7	B260	12D20-	1	20
34.0	279	3.7	135	139	5.911	7	B260	12D20L	1	20
37.0	279	1.8	65.0	139	4.953	7	B130	12D20-	1	13
37.0	279	1.8	65.0	139	4.953	7	B130	12D20L	1	13
39.0	217	4.0	210	108	6.776	9	B260	12D20-	2	22
39.0	217	4.0	210	108	6.776	9	B260	12D20L	2	22
40.0	240	2.7	110	120	2.056	25	B130	09D60-	2	11
40.0	240	2.7	110	120	2.056	25	B130	09D60L	2	11
41.0	244	1.2	50.0	122	4.939	8	B130	12D20-	1	13
41.0	244	1.2	50.0	122	4.939	8	B130	12D20L	1	13
41.0	244	2.9	120	122	5.877	8	B260	12D20-	1	20
41.0	244	2.9	120	122	5.877	8	B260	12D20L	1	20
42.0	188	4.9	260	94.0	2.961	32	B260	09D60-	2	19



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
42.0	188	4.9	260	94.0	2.961	32	B260	09D60L	2	20
45.0	217	2.4	130	108	5.244	9	B130	12D20-	2	13
45.0	217	2.4	130	108	5.244	9	B130	12D20L	2	13
52.0	195	1.8	95.0	98.0	5.823	10	B260	12D20-	1	20
52.0	195	1.8	95.0	98.0	5.823	10	B260	12D20L	1	20
52.0	188	2.3	120	94.0	2.018	32	B130	09D60-	2	11
52.0	188	2.3	120	94.0	2.018	32	B130	09D60L	2	11
52.0	163	4.2	260	81.0	6.710	12	B260	12D20-	2	22
52.0	163	4.2	260	81.0	6.710	12	B260	12D20L	2	22
60.0	150	3.5	230	75.0	2.958	40	B260	09D60-	2	19
60.0	150	3.5	230	75.0	2.958	40	B260	09D60L	2	20
62.0	163	1.9	120	81.0	5.219	12	B130	12D20-	2	13
62.0	163	1.9	120	81.0	5.219	12	B130	12D20L	2	13
65.0	150	1.7	110	75.0	2.017	40	B130	09D60-	2	11
65.0	150	1.7	110	75.0	2.017	40	B130	09D60L	2	11
72.0	130	3.0	230	65.0	6.688	15	B260	12D20-	2	22
72.0	130	3.0	230	65.0	6.688	15	B260	12D20L	2	22
76.0	122	3.1	260	61.0	6.189	16	B260	12D20-	2	22
76.0	122	3.1	260	61.0	6.189	16	B260	12D20L	2	22
77.0	130	1.4	110	65.0	5.210	15	B130	12D20-	2	13
77.0	130	1.4	110	65.0	5.210	15	B130	12D20L	2	13
82.0	122	1.5	120	61.0	5.001	16	B130	12D20-	2	13
82.0	122	1.5	120	61.0	5.001	16	B130	12D20L	2	13
89.0	100	2.7	260	50.0	3.781	60	B260	09D60-	3	21
89.0	100	2.7	260	50.0	3.781	60	B260	09D60L	3	22
94.0	100	1.2	110	50.0	2.304	60	B130	09D60-	3	11
94.0	100	1.2	110	50.0	2.304	60	B130	09D60L	3	12
97.0	93.8	1.2	120	47.0	2.955	64	B260	09D60-	2	19
97.0	93.8	1.2	120	47.0	2.955	64	B260	09D60L	2	20
99.0	97.5	2.5	260	49.0	6.015	20	B260	12D20-	2	22
99.0	97.5	2.5	260	49.0	6.015	20	B260	12D20L	2	22
102	97.5	1.2	120	49.0	4.959	20	B130	12D20-	2	13
102	97.5	1.2	120	49.0	4.959	20	B130	12D20L	2	13
125	75.0	2.1	260	38.0	3.112	80	B260	09D60-	3	21
125	75.0	2.1	260	38.0	3.112	80	B260	09D60L	3	22
127	78.0	1.8	230	39.0	6.007	25	B260	12D20-	2	22
127	78.0	1.8	230	39.0	6.007	25	B260	12D20L	2	22
153	60.0	1.7	260	30.0	3.105	100	B260	09D60-	3	21
153	60.0	1.7	260	30.0	3.105	100	B260	09D60L	3	22
162	60.9	1.6	260	30.0	5.861	32	B260	12D20-	2	22
162	60.9	1.6	260	30.0	5.861	32	B260	12D20L	2	22
177	50.0	1.3	230	25.0	3.763	120	B260	09D60-	3	21
177	50.0	1.3	230	25.0	3.763	120	B260	09D60L	3	22
200	48.8	1.2	230	24.0	5.858	40	B260	12D20-	2	22
200	48.8	1.2	230	24.0	5.858	40	B260	12D20L	2	22
233	37.5	1.1	260	19.0	2.957	160	B260	09D60-	3	21
233	37.5	1.1	260	19.0	2.957	160	B260	09D60L	3	22

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.8	1250	2.1	40.0	625	2.902	3	B130	09F38-	1	11
8.8	1250	2.1	40.0	625	2.902	3	B130	09F38L	1	11
11.0	938	3.0	53.0	469	2.594	4	B130	09F38-	1	11
11.0	938	3.0	53.0	469	2.594	4	B130	09F38L	1	11
14.0	750	3.2	67.0	375	2.519	5	B130	09F38-	1	11
14.0	750	3.2	67.0	375	2.519	5	B130	09F38L	1	11
19.0	417	5.9	210	208	4.276	9	B260	09F38-	2	20
19.0	417	5.9	210	208	4.276	9	B260	09F38L	2	20
20.0	536	3.2	65.0	268	2.453	7	B130	09F38-	1	11
20.0	536	3.2	65.0	268	2.453	7	B130	09F38L	1	11
21.0	469	5.1	120	234	3.377	8	B260	09F38-	1	18
21.0	469	5.1	120	234	3.377	8	B260	09F38L	1	18
23.0	469	2.1	50.0	234	2.439	8	B130	09F38-	1	11
23.0	469	2.1	50.0	234	2.439	8	B130	09F38L	1	11
23.0	417	3.5	130	208	2.744	9	B130	09F38-	2	12
23.0	417	3.5	130	208	2.744	9	B130	09F38L	2	12
28.0	375	3.3	95.0	188	3.323	10	B260	09F38-	1	18
28.0	375	3.3	95.0	188	3.323	10	B260	09F38L	1	18
29.0	375	1.3	38.0	188	2.421	10	B130	09F38-	1	11
29.0	375	1.3	38.0	188	2.421	10	B130	09F38L	1	11
31.0	313	3.3	120	156	2.719	12	B130	09F38-	2	12
31.0	313	3.3	120	156	2.719	12	B130	09F38L	2	12
33.0	250	5.3	230	125	4.188	15	B260	09F38-	2	20
33.0	250	5.3	230	125	4.188	15	B260	09F38L	2	20
34.0	234	5.6	260	117	3.689	16	B260	09F38-	2	20
34.0	234	5.6	260	117	3.689	16	B260	09F38L	2	20
42.0	250	2.5	110	125	2.710	15	B130	09F38-	2	12
42.0	250	2.5	110	125	2.710	15	B130	09F38L	2	12
45.0	234	2.6	120	117	2.501	16	B130	09F38-	2	12
45.0	234	2.6	120	117	2.501	16	B130	09F38L	2	12
47.0	188	4.5	260	94.0	3.515	20	B260	09F38-	2	20
47.0	188	4.5	260	94.0	3.515	20	B260	09F38L	2	20
58.0	188	2.1	120	94.0	2.459	20	B130	09F38-	2	12
58.0	188	2.1	120	94.0	2.459	20	B130	09F38L	2	12
66.0	150	3.2	230	75.0	3.507	25	B260	09F38-	2	20
66.0	150	3.2	230	75.0	3.507	25	B260	09F38L	2	20
71.0	150	1.5	110	75.0	2.456	25	B130	09F38-	2	12
71.0	150	1.5	110	75.0	2.456	25	B130	09F38L	2	12
87.0	117	2.9	260	59.0	3.361	32	B260	09F38-	2	20
87.0	117	2.9	260	59.0	3.361	32	B260	09F38L	2	20
90.0	117	1.3	120	59.0	2.418	32	B130	09F38-	2	12
90.0	117	1.3	120	59.0	2.418	32	B130	09F38L	2	12
113	93.8	2.0	230	47.0	3.358	40	B260	09F38-	2	20
113	93.8	2.0	230	47.0	3.358	40	B260	09F38L	2	20
164	62.5	1.6	260	31.0	4.181	60	B260	09F38-	3	22
164	62.5	1.6	260	31.0	4.181	60	B260	09F38L	3	22
216	46.9	1.2	260	23.0	3.512	80	B260	09F38-	3	22
216	46.9	1.2	260	23.0	3.512	80	B260	09F38L	3	22



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
26.0	500	2.8	80.0	250	10.978	3	B260	14D15-	1	42
34.0	375	3.0	105	188	10.394	4	B260	14D15-	1	42
42.0	300	3.0	130	150	10.186	5	B260	14D15-	1	42
61.0	214	2.2	135	107	10.011	7	B260	14D15-	1	42
70.0	188	1.7	120	94.0	9.977	8	B260	14D15-	1	42
74.0	167	2.6	210	83.0	10.876	9	B260	14D15-	2	44
86.0	150	1.1	95.0	75.0	9.923	10	B260	14D15-	1	42
100	125	2.5	260	63.0	10.810	12	B260	14D15-	2	44
130	100	1.8	230	50.0	10.788	15	B260	14D15-	2	44
138	93.8	1.9	260	47.0	10.289	16	B260	14D15-	2	44
171	75.0	1.5	260	38.0	10.115	20	B260	14D15-	2	44
212	60.0	1.1	230	30.0	10.107	25	B260	14D15-	2	44

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.8	2000	2.3	40.0	1000	2.902	3	B130	09F60-	1	11
6.8	2000	2.3	40.0	1000	2.902	3	B130	09F60L	1	11
8.7	1500	3.3	53.0	750	2.594	4	B130	09F60-	1	11
8.7	1500	3.3	53.0	750	2.594	4	B130	09F60L	1	11
11.0	1200	3.5	67.0	600	2.519	5	B130	09F60-	1	11
11.0	1200	3.5	67.0	600	2.519	5	B130	09F60L	1	11
15.0	857	3.8	65.0	429	2.453	7	B130	09F60-	1	11
15.0	857	3.8	65.0	429	2.453	7	B130	09F60L	1	11
17.0	667	3.9	130	333	2.744	9	B130	09F60-	2	12
17.0	667	3.9	130	333	2.744	9	B130	09F60L	2	12
18.0	750	2.8	50.0	375	2.439	8	B130	09F60-	1	11
18.0	750	2.8	50.0	375	2.439	8	B130	09F60L	1	11
21.0	600	4.2	95.0	300	3.323	10	B260	09F60-	1	18
21.0	600	4.2	95.0	300	3.323	10	B260	09F60L	1	18
22.0	600	1.7	38.0	300	2.421	10	B130	09F60-	1	11
22.0	600	1.7	38.0	300	2.421	10	B130	09F60L	1	11
24.0	500	3.8	120	250	2.719	12	B130	09F60-	2	12
24.0	500	3.8	120	250	2.719	12	B130	09F60L	2	12
31.0	400	3.2	110	200	2.710	15	B130	09F60-	2	12
31.0	400	3.2	110	200	2.710	15	B130	09F60L	2	12
32.0	300	5.8	260	150	3.515	20	B260	09F60-	2	20
32.0	300	5.8	260	150	3.515	20	B260	09F60L	2	20
33.0	375	3.1	120	188	2.501	16	B130	09F60-	2	12
33.0	375	3.1	120	188	2.501	16	B130	09F60L	2	12
43.0	300	2.7	120	150	2.459	20	B130	09F60-	2	12
43.0	300	2.7	120	150	2.459	20	B130	09F60L	2	12
47.0	240	4.2	230	120	3.507	25	B260	09F60-	2	20
47.0	240	4.2	230	120	3.507	25	B260	09F60L	2	20
55.0	240	2.0	110	120	2.456	25	B130	09F60-	2	12
55.0	240	2.0	110	120	2.456	25	B130	09F60L	2	12
63.0	188	3.7	260	94.0	3.361	32	B260	09F60-	2	20
63.0	188	3.7	260	94.0	3.361	32	B260	09F60L	2	20
70.0	188	1.7	120	94.0	2.418	32	B130	09F60-	2	12
70.0	188	1.7	120	94.0	2.418	32	B130	09F60L	2	12
86.0	150	1.3	110	75.0	2.417	40	B130	09F60-	2	12
86.0	150	1.3	110	75.0	2.417	40	B130	09F60L	2	12
86.0	150	2.6	230	75.0	3.358	40	B260	09F60-	2	20
86.0	150	2.6	230	75.0	3.358	40	B260	09F60L	2	20
127	100	2.1	260	50.0	4.181	60	B260	09F60-	3	22
127	100	2.1	260	50.0	4.181	60	B260	09F60L	3	22
167	75.0	1.6	260	38.0	3.512	80	B260	09F60-	3	22
167	75.0	1.6	260	38.0	3.512	80	B260	09F60L	3	22
204	60.0	1.3	260	30.0	3.505	100	B260	09F60-	3	22
204	60.0	1.3	260	30.0	3.505	100	B260	09F60L	3	22



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
9.7	1350	4.8	80.0	675	4.778	3	B260	09H41-	1	19
9.7	1350	4.8	80.0	675	4.778	3	B260	09H41L	1	19
11.0	1350	1.7	40.0	675	3.302	3	B130	09H41-	1	12
11.0	1350	1.7	40.0	675	3.302	3	B130	09H41L	1	12
13.0	1013	5.3	105	506	4.194	4	B260	09H41-	1	19
13.0	1013	5.3	105	506	4.194	4	B260	09H41L	1	19
14.0	1013	2.4	53.0	506	2.994	4	B130	09H41-	1	12
14.0	1013	2.4	53.0	506	2.994	4	B130	09H41L	1	12
15.0	810	5.7	130	405	3.986	5	B260	09H41-	1	19
15.0	810	5.7	130	405	3.986	5	B260	09H41L	1	19
18.0	810	2.5	67.0	405	2.919	5	B130	09H41-	1	12
18.0	810	2.5	67.0	405	2.919	5	B130	09H41L	1	12
22.0	579	5.3	135	289	3.811	7	B260	09H41-	1	19
22.0	579	5.3	135	289	3.811	7	B260	09H41L	1	19
25.0	579	2.6	65.0	289	2.853	7	B130	09H41-	1	12
25.0	579	2.6	65.0	289	2.853	7	B130	09H41L	1	12
26.0	450	4.7	210	225	4.676	9	B260	09H41-	2	21
26.0	450	4.7	210	225	4.676	9	B260	09H41L	2	21
27.0	506	4.2	120	253	3.777	8	B260	09H41-	1	19
27.0	506	4.2	120	253	3.777	8	B260	09H41L	1	19
28.0	500	2.5	80.0	250	10.178	3	B260	12H15-	1	23
28.0	500	2.5	80.0	250	10.178	3	B260	12H15L	1	23
29.0	506	1.8	50.0	253	2.839	8	B130	09H41-	1	12
29.0	506	1.8	50.0	253	2.839	8	B130	09H41L	1	12
30.0	450	2.8	130	225	3.144	9	B130	09H41-	2	13
30.0	450	2.8	130	225	3.144	9	B130	09H41L	2	13
35.0	405	1.1	38.0	203	2.821	10	B130	09H41-	1	12
35.0	405	1.1	38.0	203	2.821	10	B130	09H41L	1	12
35.0	405	2.7	95.0	203	3.723	10	B260	09H41-	1	19
35.0	405	2.7	95.0	203	3.723	10	B260	09H41L	1	19
37.0	375	2.8	105	188	9.594	4	B260	12H15-	1	23
37.0	375	2.8	105	188	9.594	4	B260	12H15L	1	23
41.0	338	2.7	120	169	3.119	12	B130	09H41-	2	13
41.0	338	2.7	120	169	3.119	12	B130	09H41L	2	13
44.0	270	4.3	230	135	4.588	15	B260	09H41-	2	21
44.0	270	4.3	230	135	4.588	15	B260	09H41L	2	21
46.0	253	4.6	260	127	4.089	16	B260	09H41-	2	21
46.0	253	4.6	260	127	4.089	16	B260	09H41L	2	21
47.0	300	2.7	130	150	9.386	5	B260	12H15-	1	23
47.0	300	2.7	130	150	9.386	5	B260	12H15L	1	23
53.0	270	2.1	110	135	3.110	15	B130	09H41-	2	13
53.0	270	2.1	110	135	3.110	15	B130	09H41L	2	13
57.0	253	2.1	120	127	2.901	16	B130	09H41-	2	13
57.0	253	2.1	120	127	2.901	16	B130	09H41L	2	13
63.0	203	3.7	260	101	3.915	20	B260	09H41-	2	21
63.0	203	3.7	260	101	3.915	20	B260	09H41L	2	21
67.0	214	2.0	135	107	9.211	7	B260	12H15-	1	23
67.0	214	2.0	135	107	9.211	7	B260	12H15L	1	23
71.0	203	1.7	120	101	2.859	20	B130	09H41-	2	13
71.0	203	1.7	120	101	2.859	20	B130	09H41L	2	13
76.0	188	1.6	120	94.0	9.177	8	B260	12H15-	1	23

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
76.0	188	1.6	120	94.0	9.177	8	B260	12H15L	1	23
82.0	167	2.4	210	83.0	10.076	9	B260	12H15-	2	25
82.0	167	2.4	210	83.0	10.076	9	B260	12H15L	2	25
85.0	162	2.6	230	81.0	3.907	25	B260	09H41-	2	21
85.0	162	2.6	230	81.0	3.907	25	B260	09H41L	2	21
87.0	162	1.3	110	81.0	2.856	25	B130	09H41-	2	13
87.0	162	1.3	110	81.0	2.856	25	B130	09H41L	2	13
94.0	150	1.0	95.0	75.0	9.123	10	B260	12H15-	1	23
94.0	150	1.0	95.0	75.0	9.123	10	B260	12H15L	1	23
110	125	2.3	260	63.0	10.010	12	B260	12H15-	2	25
110	125	2.3	260	63.0	10.010	12	B260	12H15L	2	25
111	127	1.1	120	63.0	2.818	32	B130	09H41-	2	13
111	127	1.1	120	63.0	2.818	32	B130	09H41L	2	13
112	127	2.3	260	63.0	3.761	32	B260	09H41-	2	21
112	127	2.3	260	63.0	3.761	32	B260	09H41L	2	21
138	101	1.7	230	51.0	3.758	40	B260	09H41-	2	21
138	101	1.7	230	51.0	3.758	40	B260	09H41L	2	21
141	100	1.6	230	50.0	9.988	15	B260	12H15-	2	25
141	100	1.6	230	50.0	9.988	15	B260	12H15L	2	25
150	93.8	1.7	260	47.0	9.489	16	B260	12H15-	2	25
150	93.8	1.7	260	47.0	9.489	16	B260	12H15L	2	25
186	75.0	1.4	260	38.0	9.315	20	B260	12H15-	2	25
186	75.0	1.4	260	38.0	9.315	20	B260	12H15L	2	25
201	67.5	1.3	260	34.0	4.581	60	B260	09H41-	3	23
201	67.5	1.3	260	34.0	4.581	60	B260	09H41L	3	23
230	60.0	1.0	230	30.0	9.307	25	B260	12H15-	2	25
230	60.0	1.0	230	30.0	9.307	25	B260	12H15L	2	25



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1350	4.3	80.0	675	6.878	3	B260	12D41-	1	20
11.0	1350	4.3	80.0	675	6.878	3	B260	12D41L	1	20
12.0	1350	1.5	40.0	675	5.402	3	B130	12D41-	1	13
12.0	1350	1.5	40.0	675	5.402	3	B130	12D41L	1	13
15.0	1013	4.7	105	506	6.294	4	B260	12D41-	1	20
15.0	1013	4.7	105	506	6.294	4	B260	12D41L	1	20
16.0	1013	2.1	53.0	506	5.094	4	B130	12D41-	1	13
16.0	1013	2.1	53.0	506	5.094	4	B130	12D41L	1	13
18.0	810	5.0	130	405	6.086	5	B260	12D41-	1	20
18.0	810	5.0	130	405	6.086	5	B260	12D41L	1	20
20.0	810	2.2	67.0	405	5.019	5	B130	12D41-	1	13
20.0	810	2.2	67.0	405	5.019	5	B130	12D41L	1	13
26.0	579	4.7	135	289	5.911	7	B260	12D41-	1	20
26.0	579	4.7	135	289	5.911	7	B260	12D41L	1	20
29.0	579	2.3	65.0	289	4.953	7	B130	12D41-	1	13
29.0	579	2.3	65.0	289	4.953	7	B130	12D41L	1	13
31.0	506	3.7	120	253	5.877	8	B260	12D41-	1	20
31.0	506	3.7	120	253	5.877	8	B260	12D41L	1	20
31.0	450	4.2	210	225	6.776	9	B260	12D41-	2	22
31.0	450	4.2	210	225	6.776	9	B260	12D41L	2	22
32.0	506	1.6	50.0	253	4.939	8	B130	12D41-	1	13
32.0	506	1.6	50.0	253	4.939	8	B130	12D41L	1	13
35.0	450	2.4	130	225	5.244	9	B130	12D41-	2	13
35.0	450	2.4	130	225	5.244	9	B130	12D41L	2	13
36.0	338	5.4	260	169	6.710	12	B260	12D41-	2	22
36.0	338	5.4	260	169	6.710	12	B260	12D41L	2	22
40.0	405	2.4	95.0	203	5.823	10	B260	12D41-	1	20
40.0	405	2.4	95.0	203	5.823	10	B260	12D41L	1	20
47.0	338	2.4	120	169	5.219	12	B130	12D41-	2	13
47.0	338	2.4	120	169	5.219	12	B130	12D41L	2	13
53.0	270	3.8	230	135	6.688	15	B260	12D41-	2	22
53.0	270	3.8	230	135	6.688	15	B260	12D41L	2	22
55.0	253	4.0	260	127	6.189	16	B260	12D41-	2	22
55.0	253	4.0	260	127	6.189	16	B260	12D41L	2	22
60.0	270	1.8	110	135	5.210	15	B130	12D41-	2	13
60.0	270	1.8	110	135	5.210	15	B130	12D41L	2	13
64.0	253	1.9	120	127	5.001	16	B130	12D41-	2	13
64.0	253	1.9	120	127	5.001	16	B130	12D41L	2	13
73.0	203	3.3	260	101	6.015	20	B260	12D41-	2	22
73.0	203	3.3	260	101	6.015	20	B260	12D41L	2	22
80.0	203	1.5	120	101	4.959	20	B130	12D41-	2	13
80.0	203	1.5	120	101	4.959	20	B130	12D41L	2	13
99.0	162	1.1	110	81.0	4.956	25	B130	12D41-	2	13
99.0	162	1.1	110	81.0	4.956	25	B130	12D41L	2	13
99.0	162	2.3	230	81.0	6.007	25	B260	12D41-	2	22
99.0	162	2.3	230	81.0	6.007	25	B260	12D41L	2	22
127	127	2.1	260	63.0	5.861	32	B260	12D41-	2	22
127	127	2.1	260	63.0	5.861	32	B260	12D41L	2	22
157	101	1.5	230	51.0	5.858	40	B260	12D41-	2	22
157	101	1.5	230	51.0	5.858	40	B260	12D41L	2	22
227	67.5	1.2	260	34.0	6.681	60	B260	12D41-	3	24

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
227	67.5	1.2	260	34.0	6.681	60	B260	12D41L	3	24



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
7.4	2000	5.3	80.0	1000	4.778	3	B260	09H60-	1	19
7.4	2000	5.3	80.0	1000	4.778	3	B260	09H60L	1	19
8.6	2000	1.9	40.0	967	3.302	3	B130	09H60-	1	12
8.6	2000	1.9	40.0	967	3.302	3	B130	09H60L	1	12
9.2	1700	4.7	80.0	850	5.678	3	B260	09L51-	1	21
9.7	1500	5.9	105	750	4.194	4	B260	09H60-	1	19
9.7	1500	5.9	105	750	4.194	4	B260	09H60L	1	19
11.0	1500	2.6	53.0	750	2.994	4	B130	09H60-	1	12
11.0	1500	2.6	53.0	750	2.994	4	B130	09H60L	1	12
12.0	1350	4.1	80.0	675	5.678	3	B260	09L41-	1	21
12.0	1350	4.1	80.0	675	5.678	3	B260	09L41L	1	21
12.0	1275	5.2	105	638	5.094	4	B260	09L51-	1	21
14.0	1200	2.8	67.0	600	2.919	5	B130	09H60-	1	12
14.0	1200	2.8	67.0	600	2.919	5	B130	09H60L	1	12
15.0	1020	5.6	130	510	4.886	5	B260	09L51-	1	21
16.0	1013	4.5	105	506	5.094	4	B260	09L41-	1	21
16.0	1013	4.5	105	506	5.094	4	B260	09L41L	1	21
19.0	857	3.1	65.0	429	2.853	7	B130	09H60-	1	12
19.0	857	3.1	65.0	429	2.853	7	B130	09H60L	1	12
19.0	810	4.8	130	405	4.886	5	B260	09L41-	1	21
19.0	810	4.8	130	405	4.886	5	B260	09L41L	1	21
19.0	667	5.3	210	333	4.676	9	B260	09H60-	2	21
19.0	667	5.3	210	333	4.676	9	B260	09H60L	2	21
20.0	750	5.3	120	375	3.777	8	B260	09H60-	1	19
20.0	750	5.3	120	375	3.777	8	B260	09H60L	1	19
21.0	729	5.6	135	364	4.711	7	B260	09L51-	1	21
23.0	750	2.2	50.0	375	2.839	8	B130	09H60-	1	12
23.0	750	2.2	50.0	375	2.839	8	B130	09H60L	1	12
23.0	667	3.1	130	333	3.144	9	B130	09H60-	2	13
23.0	667	3.1	130	333	3.144	9	B130	09H60L	2	13
24.0	567	4.6	210	283	5.576	9	B260	09L51-	2	23
25.0	638	4.4	120	319	4.677	8	B260	09L51-	1	21
27.0	600	3.4	95.0	300	3.723	10	B260	09H60-	1	19
27.0	600	3.4	95.0	300	3.723	10	B260	09H60L	1	19
27.0	579	4.5	135	289	4.711	7	B260	09L41-	1	21
27.0	579	4.5	135	289	4.711	7	B260	09L41L	1	21
28.0	600	1.4	38.0	300	2.821	10	B130	09H60-	1	12
28.0	600	1.4	38.0	300	2.821	10	B130	09H60L	1	12
31.0	500	3.0	120	250	3.119	12	B130	09H60-	2	13
31.0	500	3.0	120	250	3.119	12	B130	09H60L	2	13
31.0	400	5.4	230	200	4.588	15	B260	09H60-	2	21
31.0	400	5.4	230	200	4.588	15	B260	09H60L	2	21
32.0	506	3.5	120	253	4.677	8	B260	09L41-	1	21
32.0	506	3.5	120	253	4.677	8	B260	09L41L	1	21
32.0	450	4.0	210	225	5.576	9	B260	09L41-	2	23
32.0	450	4.0	210	225	5.576	9	B260	09L41L	2	23
33.0	510	2.8	95.0	255	4.623	10	B260	09L51-	1	21
33.0	375	5.6	260	188	4.089	16	B260	09H60-	2	21
33.0	375	5.6	260	188	4.089	16	B260	09H60L	2	21
39.0	338	5.1	260	169	5.510	12	B260	09L41-	2	23
39.0	338	5.1	260	169	5.510	12	B260	09L41L	2	23

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
41.0	400	2.5	110	200	3.110	15	B130	09H60-	2	13
41.0	400	2.5	110	200	3.110	15	B130	09H60L	2	13
41.0	340	4.5	230	170	5.488	15	B260	09L51-	2	23
42.0	405	2.3	95.0	203	4.623	10	B260	09L41-	1	21
42.0	405	2.3	95.0	203	4.623	10	B260	09L41L	1	21
43.0	319	4.8	260	159	4.989	16	B260	09L51-	2	23
44.0	375	2.5	120	188	2.901	16	B130	09H60-	2	13
44.0	375	2.5	120	188	2.901	16	B130	09H60L	2	13
45.0	300	4.7	260	150	3.915	20	B260	09H60-	2	21
45.0	300	4.7	260	150	3.915	20	B260	09H60L	2	21
56.0	300	2.1	120	150	2.859	20	B130	09H60-	2	13
56.0	300	2.1	120	150	2.859	20	B130	09H60L	2	13
56.0	270	3.6	230	135	5.488	15	B260	09L41-	2	23
56.0	270	3.6	230	135	5.488	15	B260	09L41L	2	23
58.0	255	3.9	260	128	4.815	20	B260	09L51-	2	23
58.0	253	3.8	260	127	4.989	16	B260	09L41-	2	23
58.0	253	3.8	260	127	4.989	16	B260	09L41L	2	23
64.0	240	3.3	230	120	3.907	25	B260	09H60-	2	21
64.0	240	3.3	230	120	3.907	25	B260	09H60L	2	21
69.0	240	1.6	110	120	2.856	25	B130	09H60-	2	13
69.0	240	1.6	110	120	2.856	25	B130	09H60L	2	13
78.0	203	3.1	260	101	4.815	20	B260	09L41-	2	23
78.0	203	3.1	260	101	4.815	20	B260	09L41L	2	23
80.0	204	2.8	230	102	4.807	25	B260	09L51-	2	23
84.0	188	2.9	260	94.0	3.761	32	B260	09H60-	2	21
84.0	188	2.9	260	94.0	3.761	32	B260	09H60L	2	21
87.0	188	1.4	120	94.0	2.818	32	B130	09H60-	2	13
87.0	188	1.4	120	94.0	2.818	32	B130	09H60L	2	13
104	162	2.2	230	81.0	4.807	25	B260	09L41-	2	23
104	162	2.2	230	81.0	4.807	25	B260	09L41L	2	23
105	159	2.5	260	80.0	4.661	32	B260	09L51-	2	23
108	150	1.0	110	75.0	2.817	40	B130	09H60-	2	13
108	150	1.0	110	75.0	2.817	40	B130	09H60L	2	13
109	150	2.1	230	75.0	3.758	40	B260	09H60-	2	21
109	150	2.1	230	75.0	3.758	40	B260	09H60L	2	21
131	128	1.8	230	64.0	4.658	40	B260	09L51-	2	23
132	127	2.0	260	63.0	4.661	32	B260	09L41-	2	23
132	127	2.0	260	63.0	4.661	32	B260	09L41L	2	23
158	100	1.6	260	50.0	4.581	60	B260	09H60-	3	23
158	100	1.6	260	50.0	4.581	60	B260	09H60L	3	23
164	101	1.4	230	51.0	4.658	40	B260	09L41-	2	23
164	101	1.4	230	51.0	4.658	40	B260	09L41L	2	23
190	85.0	1.4	260	43.0	5.481	60	B260	09L51-	3	25
209	75.0	1.3	260	38.0	3.912	80	B260	09H60-	3	23
209	75.0	1.3	260	38.0	3.912	80	B260	09H60L	3	23
238	67.5	1.1	260	34.0	5.481	60	B260	09L41-	3	25
238	67.5	1.1	260	34.0	5.481	60	B260	09L41L	3	25
251	63.8	1.0	260	32.0	4.812	80	B260	09L51-	3	25
255	60.0	1.0	260	30.0	3.905	100	B260	09H60-	3	23
255	60.0	1.0	260	30.0	3.905	100	B260	09H60L	3	23



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
23.0	1000	2.5	80.0	500	10.178	3	B260	12H30L	1	23
30.0	750	2.8	105	375	9.594	4	B260	12H30L	1	23
37.0	600	3.0	130	300	9.386	5	B260	12H30L	1	23
53.0	429	2.5	135	214	9.211	7	B260	12H30L	1	23
61.0	375	2.0	120	188	9.177	8	B260	12H30L	1	23
65.0	333	2.4	210	167	10.076	9	B260	12H30L	2	25
75.0	300	1.3	95.0	150	9.123	10	B260	12H30L	1	23
84.0	250	2.9	260	125	10.010	12	B260	12H30L	2	25
112	200	2.0	230	100	9.988	15	B260	12H30L	2	25
119	188	2.2	260	94.0	9.489	16	B260	12H30L	2	25
149	150	1.8	260	75.0	9.315	20	B260	12H30L	2	25
184	120	1.3	230	60.0	9.307	25	B260	12H30L	2	25
236	93.8	1.1	260	47.0	9.161	32	B260	12H30L	2	25

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
21.0	1200	2.5	80.0	600	10.978	3	B260	14D36-	1	42
21.0	1175	2.6	80.0	588	10.178	3	B260	12H35-	1	23
28.0	900	2.8	105	450	10.394	4	B260	14D36-	1	42
28.0	881	2.8	105	441	9.594	4	B260	12H35-	1	23
34.0	720	3.0	130	360	10.186	5	B260	14D36-	1	42
34.0	705	3.0	130	353	9.386	5	B260	12H35-	1	23
38.0	650	1.7	80.0	325	13.478	3	B260	12L20-	1	26
38.0	650	1.7	80.0	325	13.478	3	B260	12L20L	1	26
49.0	514	2.7	135	257	10.011	7	B260	14D36-	1	42
49.0	504	2.7	135	252	9.211	7	B260	12H35-	1	23
51.0	488	1.9	105	244	12.894	4	B260	12L20-	1	26
51.0	488	1.9	105	244	12.894	4	B260	12L20L	1	26
57.0	450	2.1	120	225	9.977	8	B260	14D36-	1	42
57.0	441	2.1	120	220	9.177	8	B260	12H35-	1	23
61.0	400	2.5	210	200	10.876	9	B260	14D36-	2	44
61.0	392	2.5	210	196	10.076	9	B260	12H35-	2	25
64.0	390	2.0	130	195	12.686	5	B260	12L20-	1	26
64.0	390	2.0	130	195	12.686	5	B260	12L20L	1	26
71.0	360	1.4	95.0	180	9.923	10	B260	14D36-	1	42
71.0	353	1.4	95.0	176	9.123	10	B260	12H35-	1	23
78.0	300	3.1	260	150	10.810	12	B260	14D36-	2	44
78.0	294	3.1	260	147	10.010	12	B260	12H35-	2	25
90.0	279	1.5	135	139	12.511	7	B260	12L20-	1	26
90.0	279	1.5	135	139	12.511	7	B260	12L20L	1	26
103	244	1.2	120	122	12.477	8	B260	12L20-	1	26
103	244	1.2	120	122	12.477	8	B260	12L20L	1	26
104	240	2.2	230	120	10.788	15	B260	14D36-	2	44
104	235	2.2	230	118	9.988	15	B260	12H35-	2	25
110	225	2.3	260	113	10.289	16	B260	14D36-	2	44
110	220	2.3	260	110	9.489	16	B260	12H35-	2	25
114	217	1.7	210	108	13.376	9	B260	12L20-	2	28
114	217	1.7	210	108	13.376	9	B260	12L20L	2	28
140	180	1.9	260	90.0	10.115	20	B260	14D36-	2	44
140	176	1.9	260	88.0	9.315	20	B260	12H35-	2	25
152	163	1.7	260	81.0	13.310	12	B260	12L20-	2	28
152	163	1.7	260	81.0	13.310	12	B260	12L20L	2	28
173	144	1.3	230	72.0	10.107	25	B260	14D36-	2	44
173	141	1.3	230	71.0	9.307	25	B260	12H35-	2	25
190	130	1.2	230	65.0	13.288	15	B260	12L20-	2	28
190	130	1.2	230	65.0	13.288	15	B260	12L20L	2	28
203	122	1.3	260	61.0	12.789	16	B260	12L20-	2	28
203	122	1.3	260	61.0	12.789	16	B260	12L20L	2	28
221	113	1.2	260	56.0	9.961	32	B260	14D36-	2	44
221	110	1.2	260	55.0	9.161	32	B260	12H35-	2	25
251	97.5	1.0	260	49.0	12.615	20	B260	12L20-	2	28
251	97.5	1.0	260	49.0	12.615	20	B260	12L20L	2	28



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
31.0	1350	1.7	80.0	675	13.478	3	B260	12L41-	1	26
42.0	1013	1.8	105	506	12.894	4	B260	12L41-	1	26
52.0	810	2.0	130	405	12.686	5	B260	12L41-	1	26
73.0	579	1.9	135	289	12.511	7	B260	12L41-	1	26
84.0	506	1.4	120	253	12.477	8	B260	12L41-	1	26
93.0	450	1.6	210	225	13.376	9	B260	12L41-	2	28
123	338	2.1	260	169	13.310	12	B260	12L41-	2	28
155	270	1.5	230	135	13.288	15	B260	12L41-	2	28
165	253	1.6	260	127	12.789	16	B260	12L41-	2	28
205	203	1.3	260	101	12.615	20	B260	12L41-	2	28

Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
19.0	550	3.5	80.0	275	6.878	3	B260	12D17-	1	22
25.0	413	3.9	105	206	6.294	4	B260	12D17-	1	22
31.0	330	3.9	130	165	6.086	5	B260	12D17-	1	22
45.0	236	2.9	135	118	5.911	7	B260	12D17-	1	22
53.0	206	2.3	120	103	5.877	8	B260	12D17-	1	22
53.0	183	3.3	210	92.0	6.776	9	B260	12D17-	2	24
66.0	165	1.4	95.0	83.0	5.823	10	B260	12D17-	1	22
71.0	138	3.3	260	69.0	6.710	12	B260	12D17-	2	24
96.0	110	2.3	230	55.0	6.688	15	B260	12D17-	2	24
102	103	2.5	260	52.0	6.189	16	B260	12D17-	2	24
130	82.5	2.0	260	41.0	6.015	20	B260	12D17-	2	24
161	66.0	1.4	230	33.0	6.007	25	B260	12D17-	2	24
206	51.6	1.3	260	26.0	5.861	32	B260	12D17-	2	24

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	450	2.2	80.0	225	10.178	3	B260	12H14-	1	25
45.0	338	2.3	105	169	9.594	4	B260	12H14-	1	25
57.0	270	2.3	130	135	9.386	5	B260	12H14-	1	25
80.0	193	1.7	135	96.0	9.211	7	B260	12H14-	1	25
91.0	169	1.3	120	84.0	9.177	8	B260	12H14-	1	25
101	150	2.1	210	75.0	10.076	9	B260	12H14-	2	27
135	113	1.9	260	56.0	10.010	12	B260	12H14-	2	27
169	90.0	1.4	230	45.0	9.988	15	B260	12H14-	2	27
180	84.4	1.4	260	42.0	9.489	16	B260	12H14-	2	27
223	67.5	1.2	260	34.0	9.315	20	B260	12H14-	2	27

2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1175	3.2	80.0	588	6.878	3	B260	12D35-	1	22
22.0	881	3.5	105	441	6.294	4	B260	12D35-	1	22
27.0	705	3.8	130	353	6.086	5	B260	12D35-	1	22
38.0	504	3.4	135	252	5.911	7	B260	12D35-	1	22
45.0	441	2.6	120	220	5.877	8	B260	12D35-	1	22
47.0	392	3.1	210	196	6.776	9	B260	12D35-	2	24
56.0	353	1.7	95.0	176	5.823	10	B260	12D35-	1	22
58.0	294	3.8	260	147	6.710	12	B260	12D35-	2	24
80.0	235	2.7	230	118	6.688	15	B260	12D35-	2	24
84.0	220	2.9	260	110	6.189	16	B260	12D35-	2	24
110	176	2.3	260	88.0	6.015	20	B260	12D35-	2	24
138	141	1.7	230	71.0	6.007	25	B260	12D35-	2	24
177	110	1.5	260	55.0	5.861	32	B260	12D35-	2	24
218	88.1	1.1	230	44.0	5.858	40	B260	12D35-	2	24



Technical data

Bevel gearbox g720-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g720-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	1125	1.9	80.0	563	10.178	3	B260	12H34-	1	25
40.0	844	2.0	105	422	9.594	4	B260	12H34-	1	25
50.0	675	2.2	130	338	9.386	5	B260	12H34-	1	25
70.0	482	1.9	135	241	9.211	7	B260	12H34-	1	25
80.0	422	1.5	120	211	9.177	8	B260	12H34-	1	25
89.0	375	1.8	210	188	10.076	9	B260	12H34-	2	27
117	281	2.2	260	141	10.010	12	B260	12H34-	2	27
148	225	1.6	230	113	9.988	15	B260	12H34-	2	27
158	211	1.7	260	105	9.489	16	B260	12H34-	2	27
195	169	1.3	260	84.0	9.315	20	B260	12H34-	2	27

Technical data

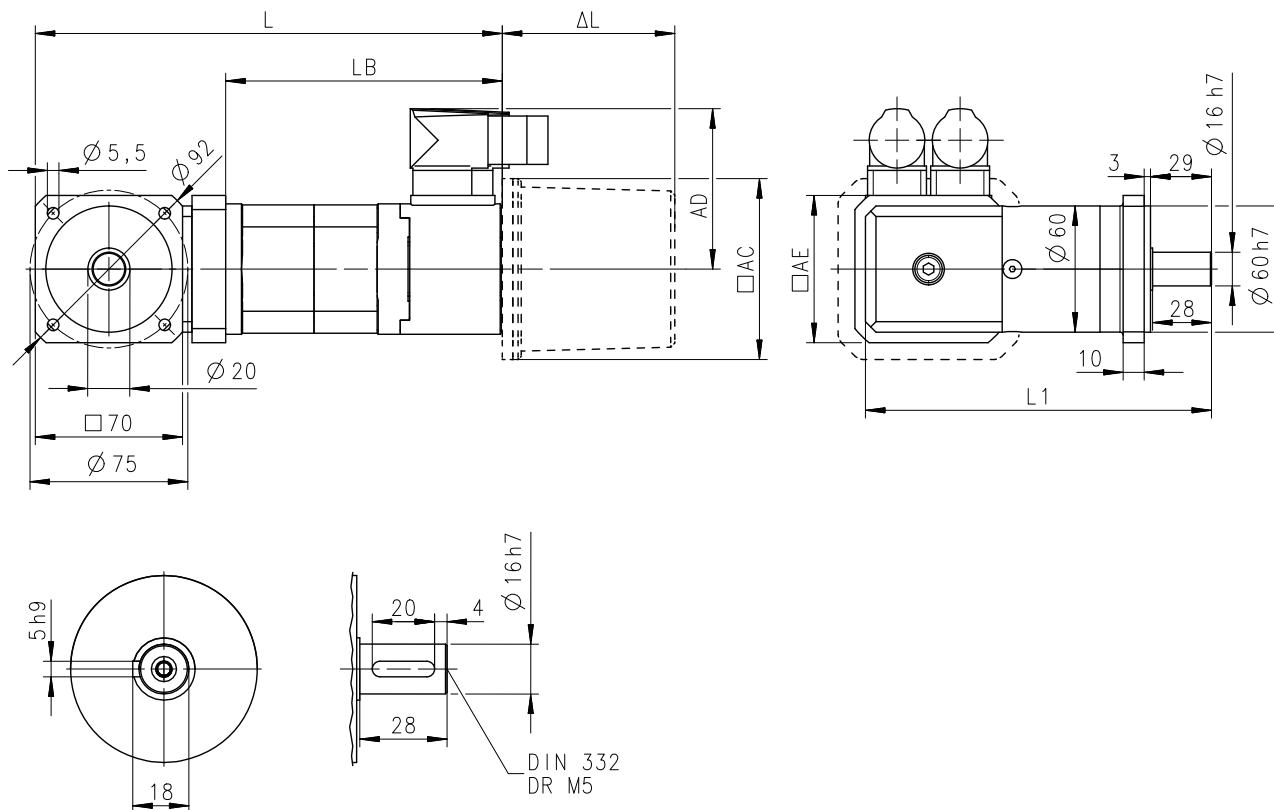
Bevel gearbox g720-B
Basic dimensions



Basic dimensions

g720-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800813-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	152	152	152	152	152	152
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

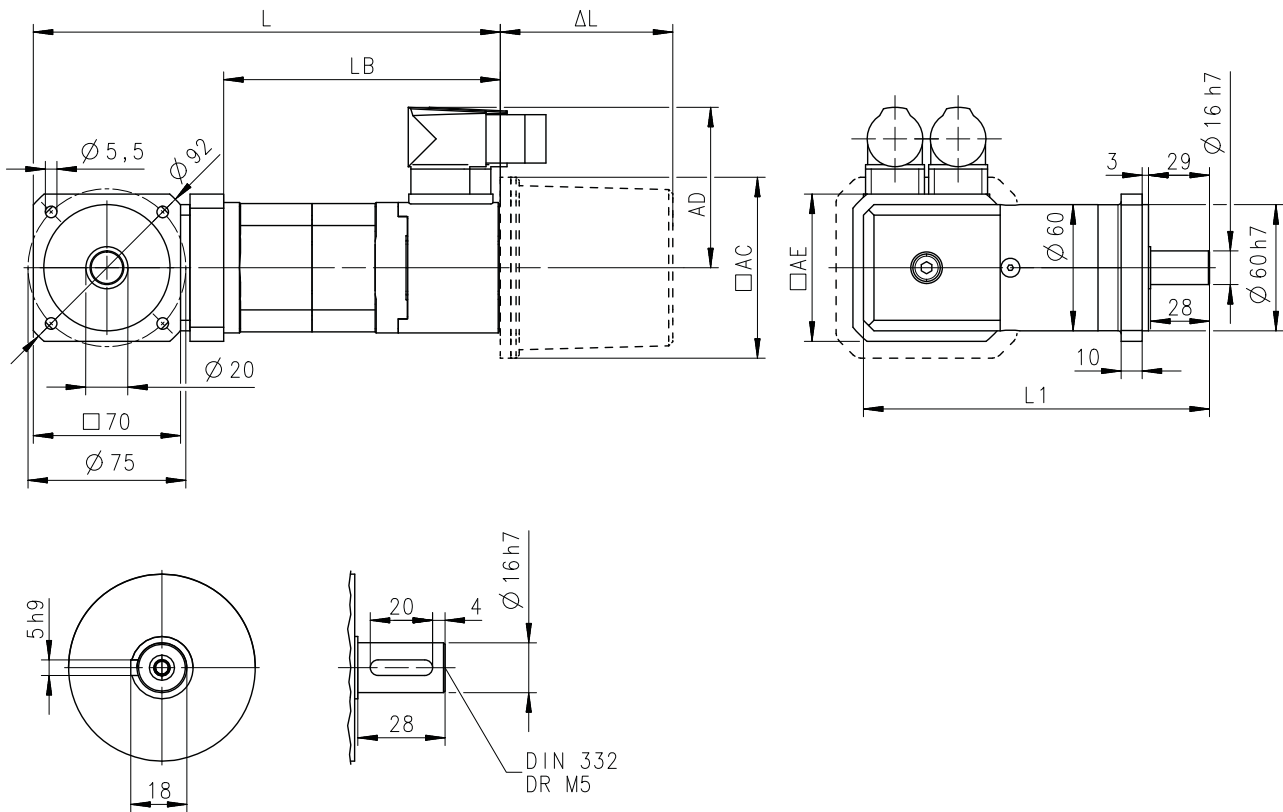


Technical data

Bevel gearbox g720-B
Basic dimensions

g720-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800813-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	164.5	164.5	164.5	164.5	164.5	164.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

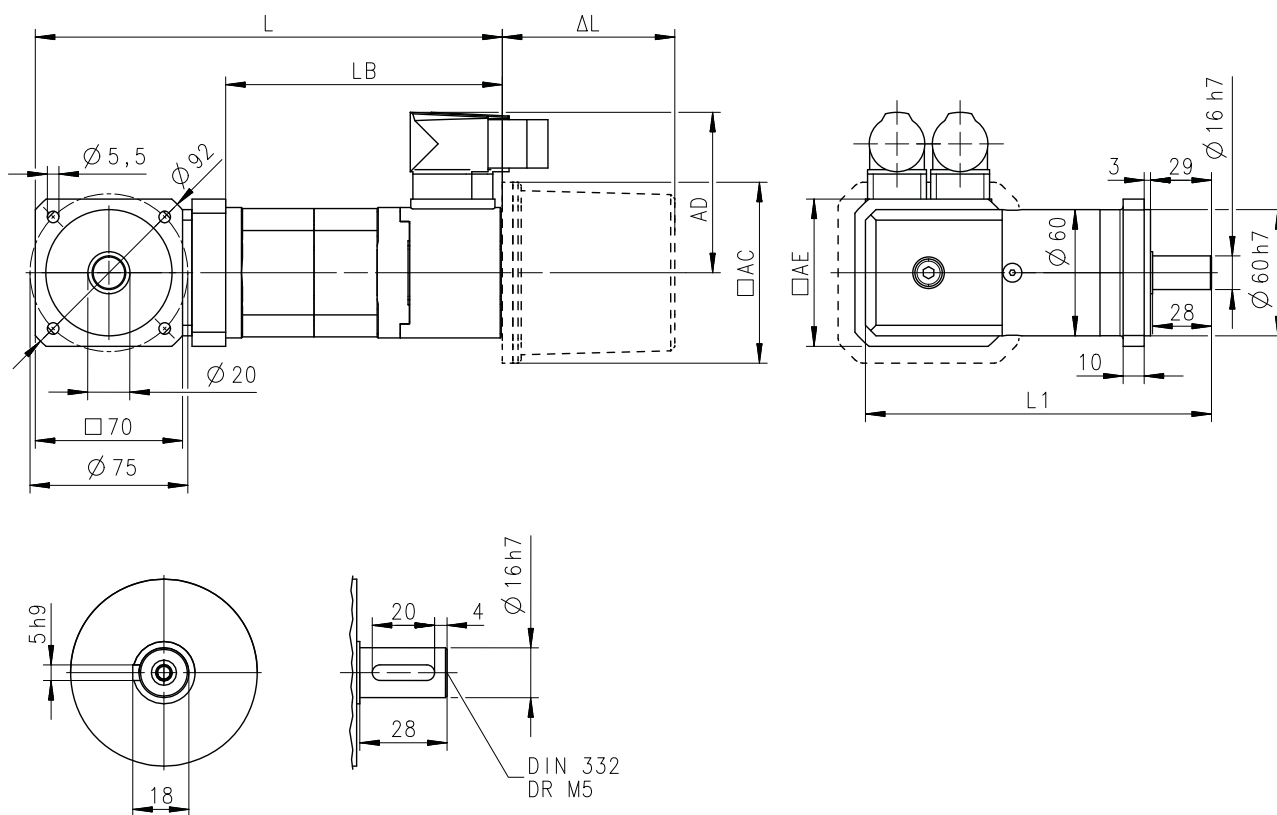
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B44 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800813-00

Motor			MCS 06	
			C41- C41L	C60- C60L
Total length	L	mm	217.5	217.5
Gearbox length	L1	mm	177	177
Motor length	LB	mm	132	132
Motor diameter	AC	mm	86	86
Motor/connection distance	AD	mm	77	77
Gearbox diameter	AE	mm	70	70

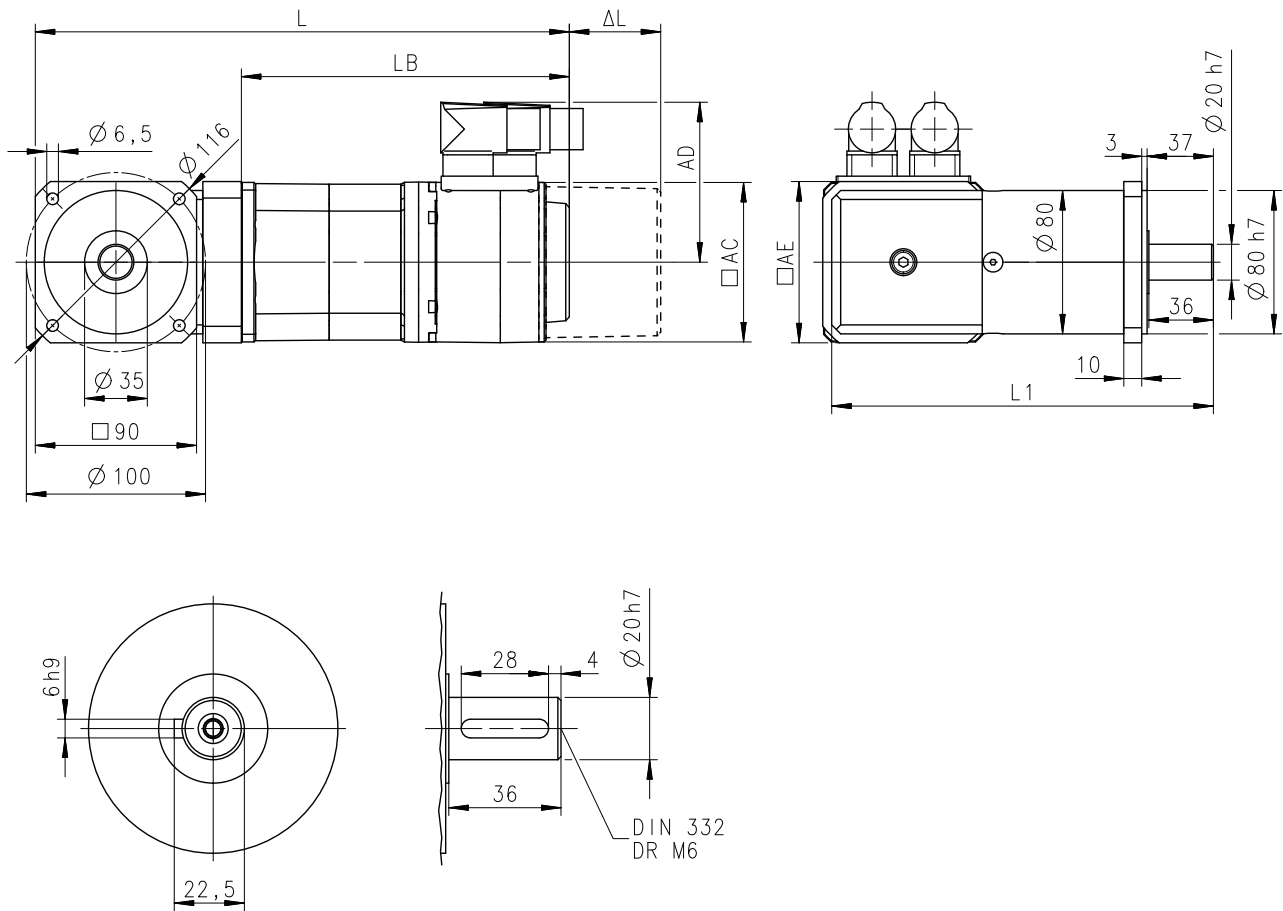


Technical data

Bevel gearbox g720-B
Basic dimensions

g720-B130 with MCS06

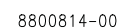
Gearbox design: Solid shaft, without foot with centering, 1-stage



8800814-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	272	272	302	302
Gearbox length	L1	mm	195.5	195.5	195.5	195.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80

Gearbox design: Solid shaft, without foot with centering, 2-stage



Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	242	242	272	272	302	302
Gearbox length	L1	mm	213	213	213	213	213	213
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80	80	80

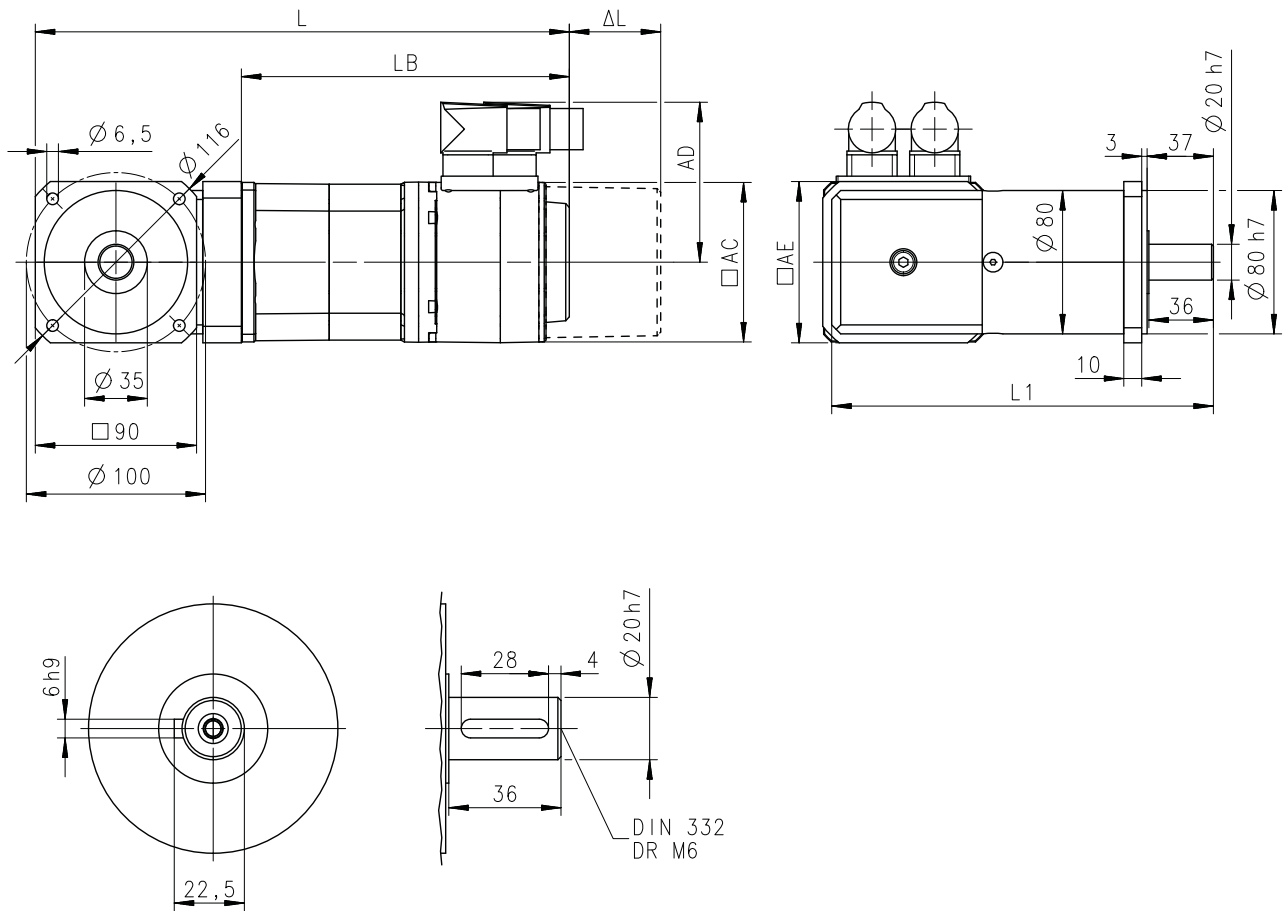


Technical data

Bevel gearbox g720-B
Basic dimensions

g720-B130 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800814-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	242	242	272	272	302	302
Gearbox length	L1	mm	230.5	230.5	230.5	230.5	230.5	230.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80	80	80

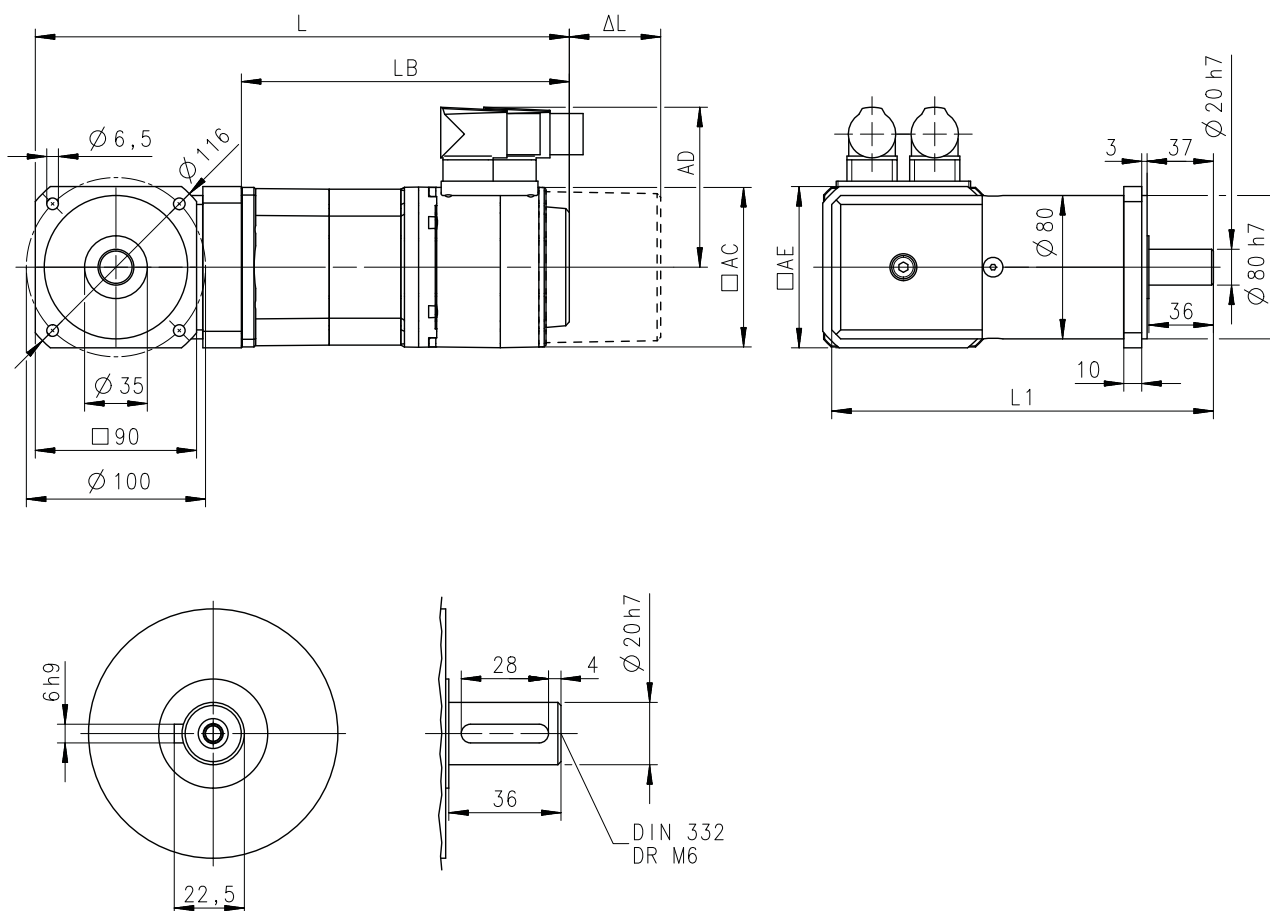
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800814-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	195.5	195.5	195.5	195.5	195.5	195.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

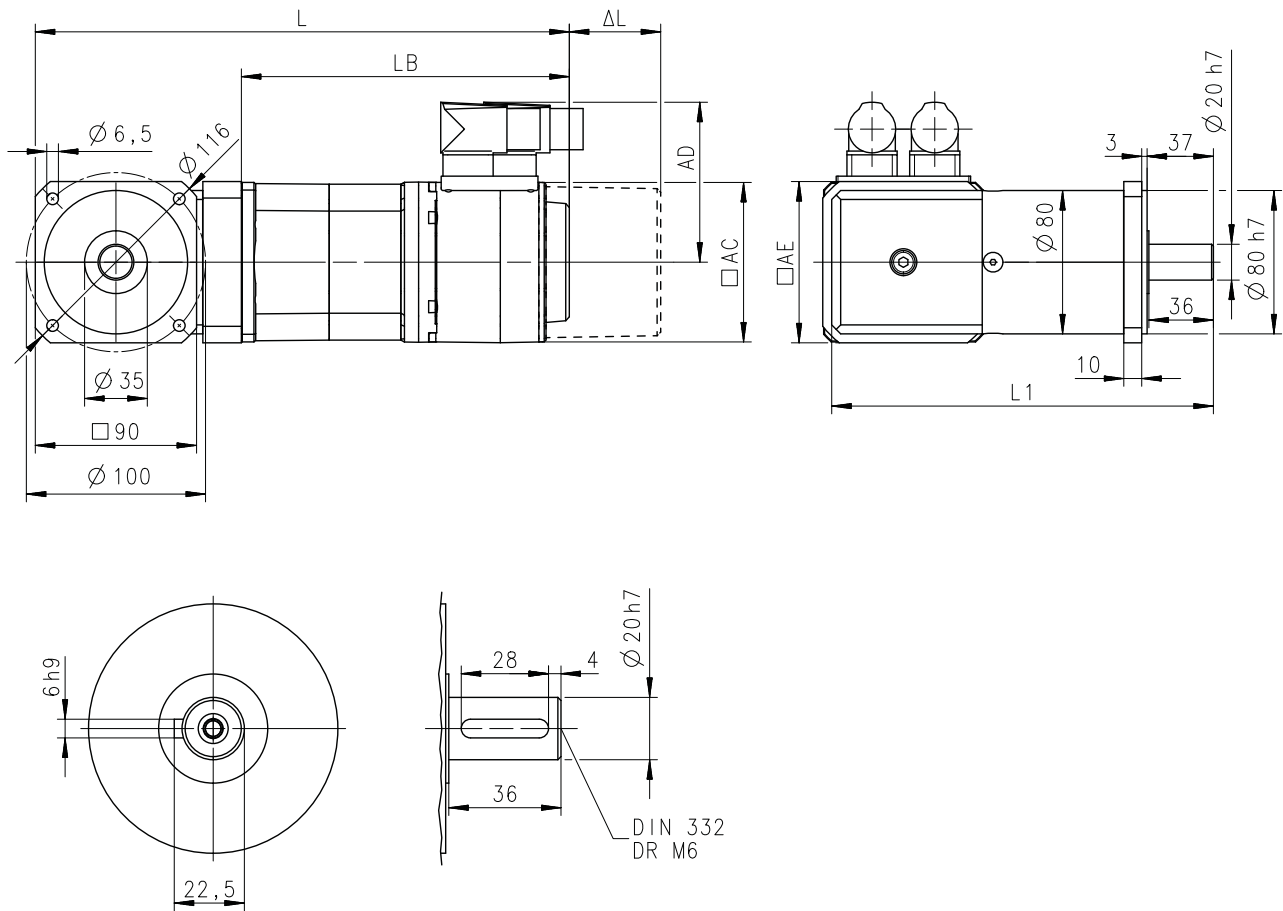


Technical data

Bevel gearbox g720-B
Basic dimensions

g720-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800814-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	213	213	213	213	213	213
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

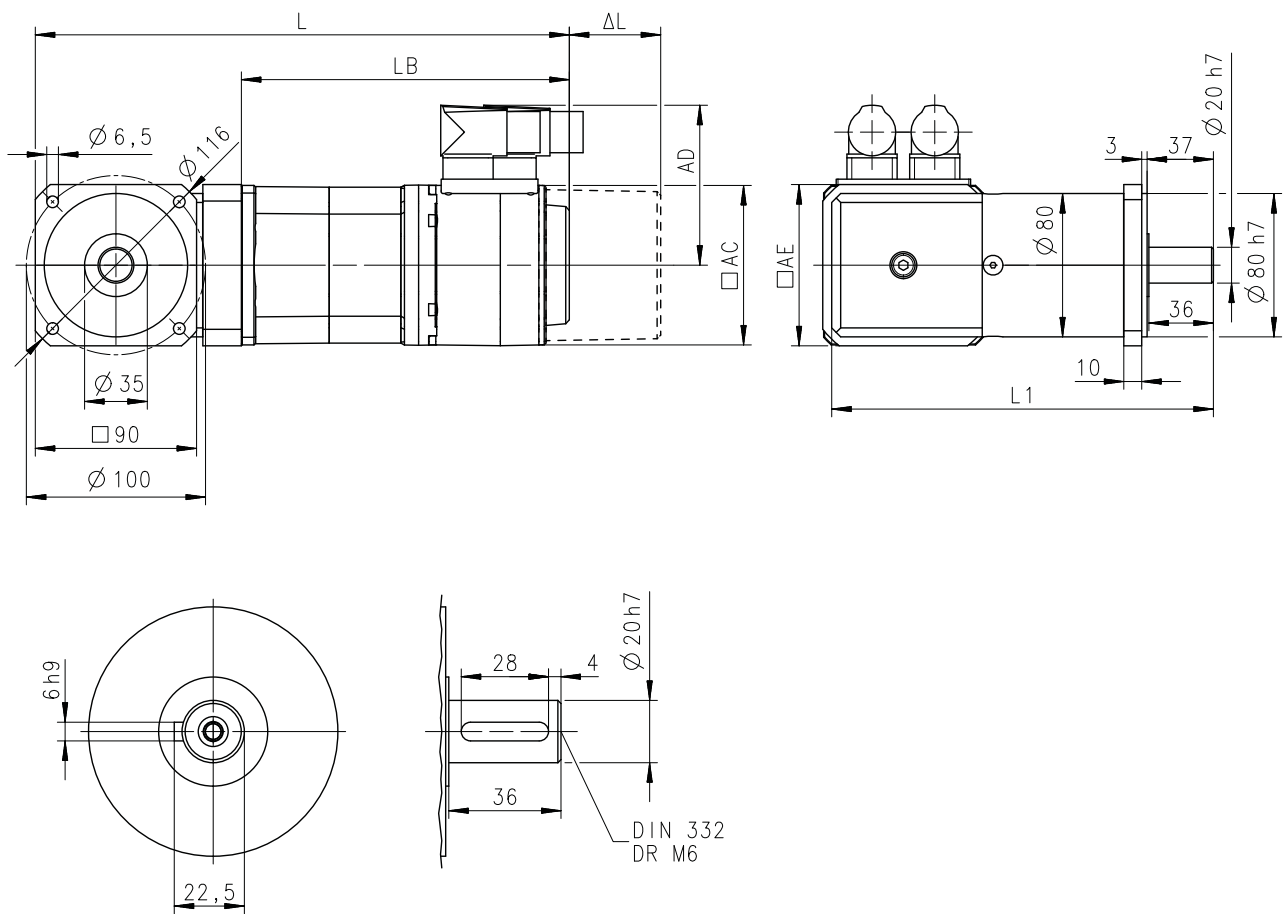
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B130 with MCS09

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800814-00

Motor			MCS 09
			D60- D60L
Total length	L	mm	292
Gearbox length	L1	mm	230.5
Motor length	LB	mm	182
Motor diameter	AC	mm	89
Motor/connection distance	AD	mm	90
Gearbox diameter	AE	mm	90

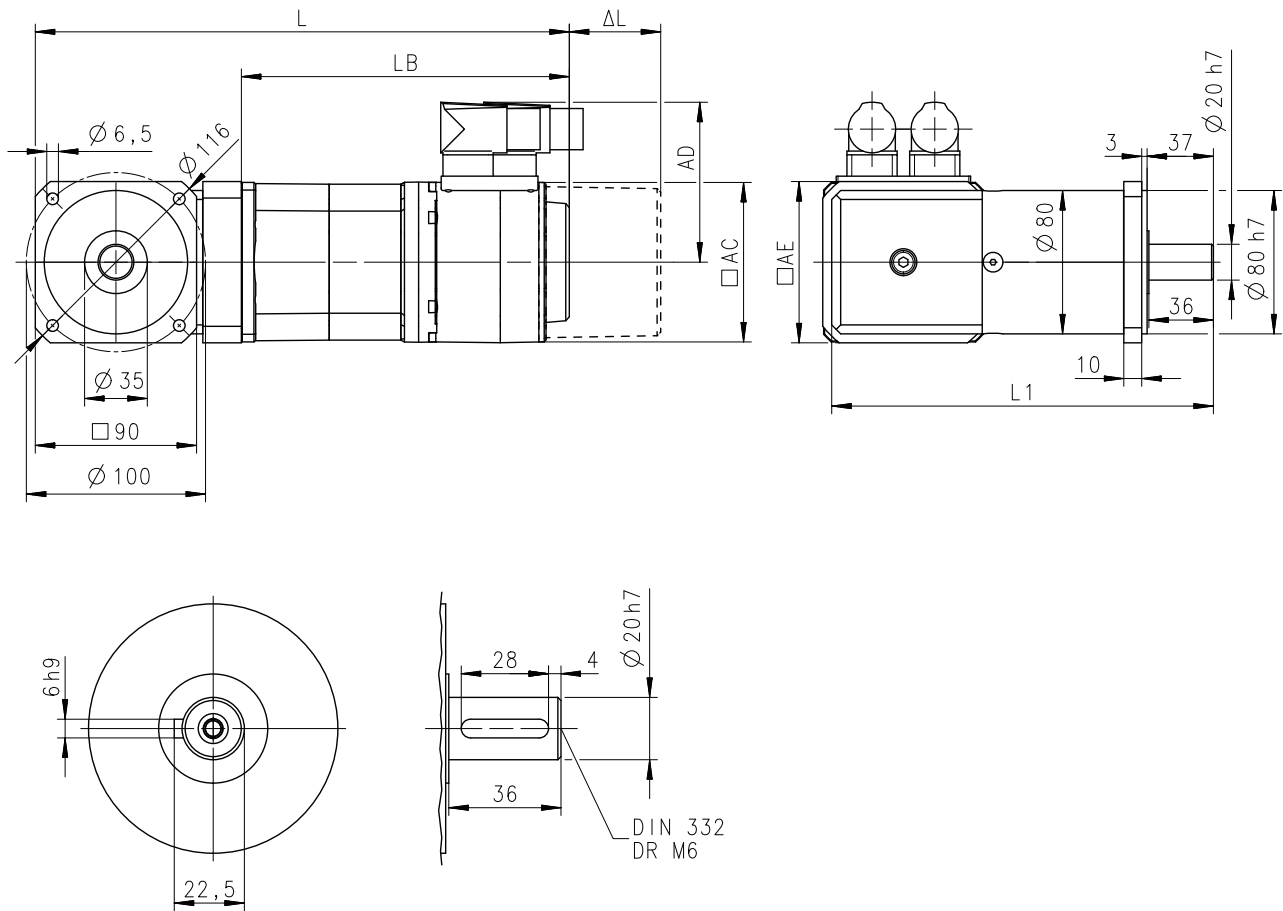


Technical data

Bevel gearbox g720-B
Basic dimensions

g720-B130 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800814-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	195.5	195.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

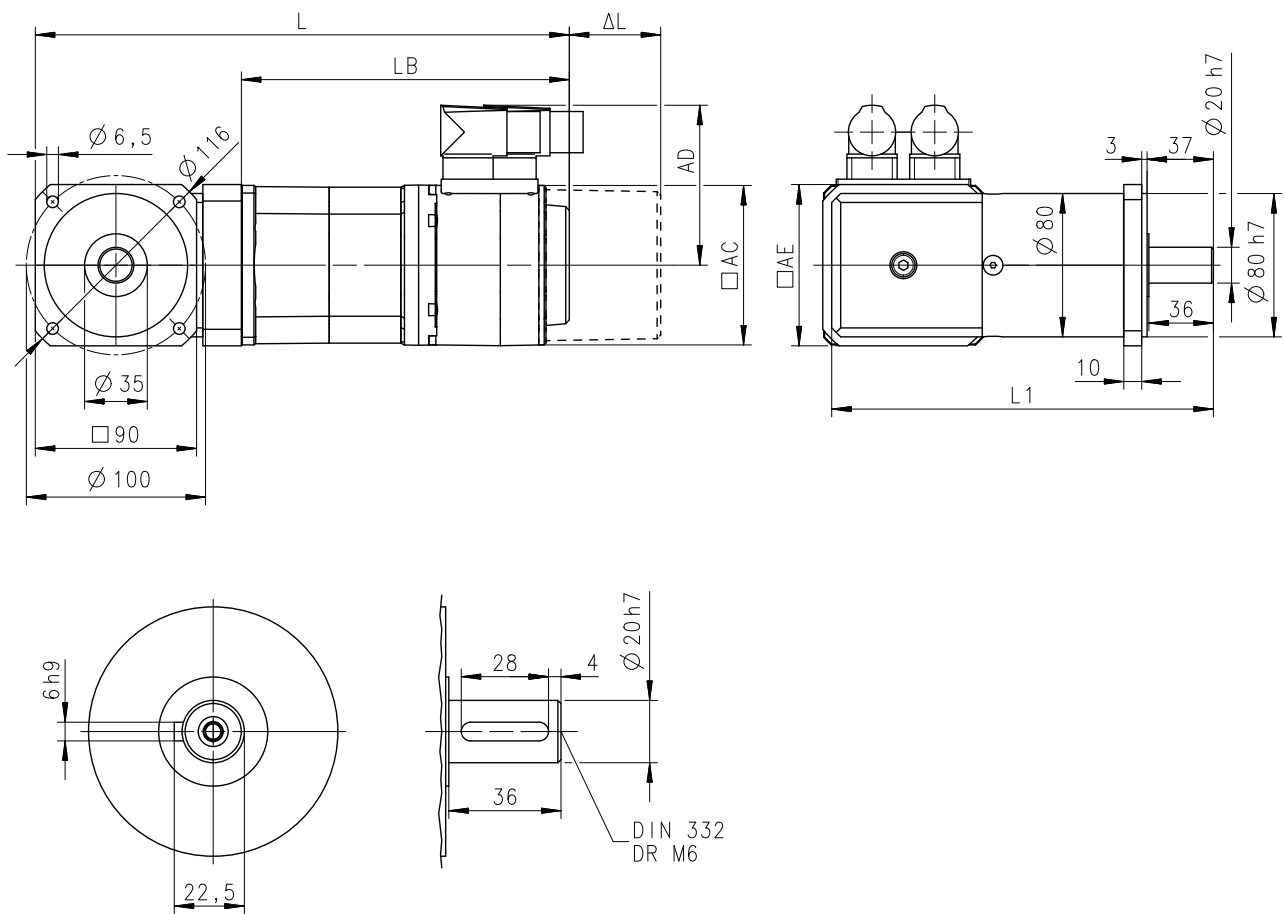
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B130 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage

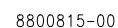


8800814-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	213	213
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



Gearbox design: Solid shaft, without foot with centering, 2-stage

127

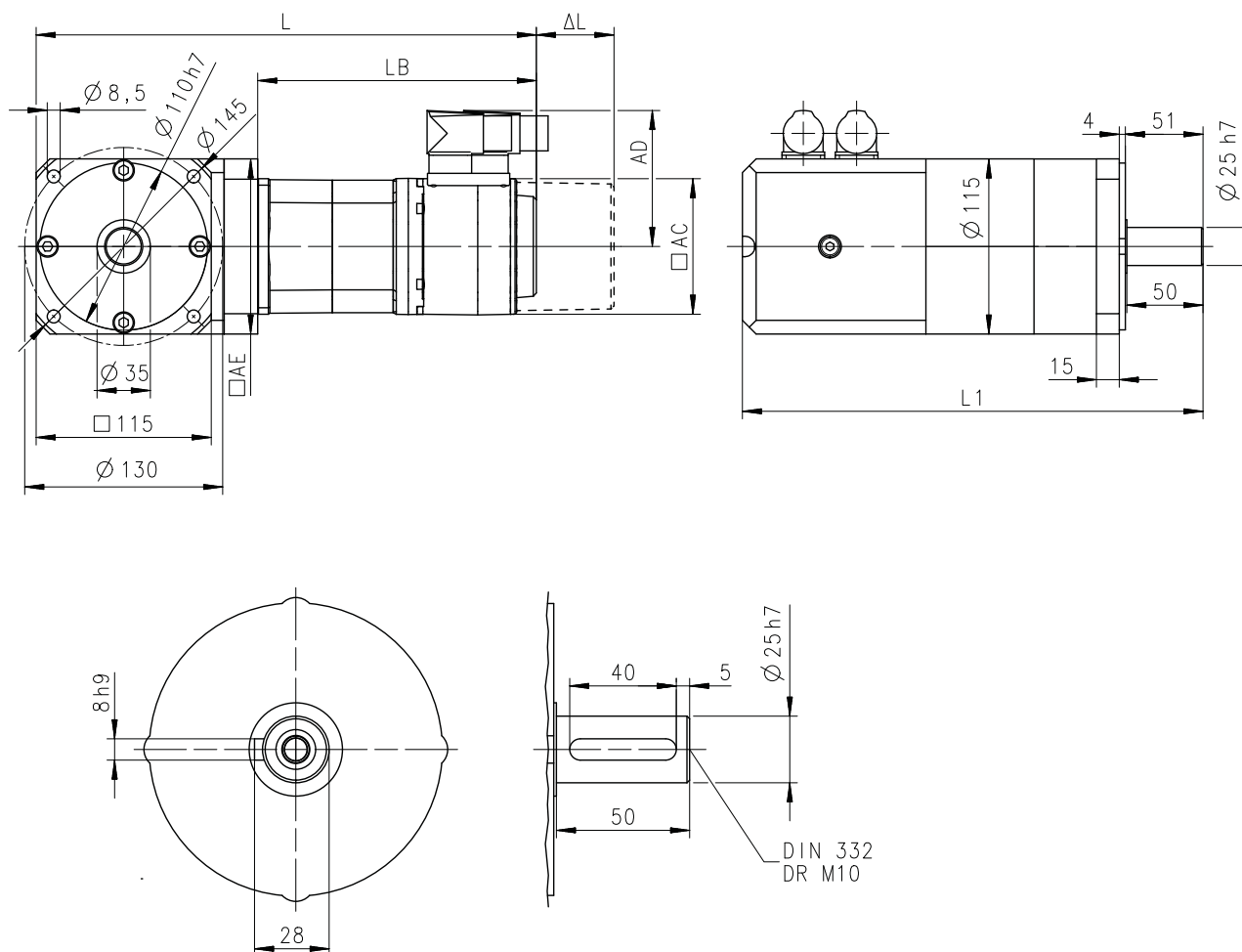
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B260 with MCS06

Gearbox design: Solid shaft, without foot with centering, 3-stage



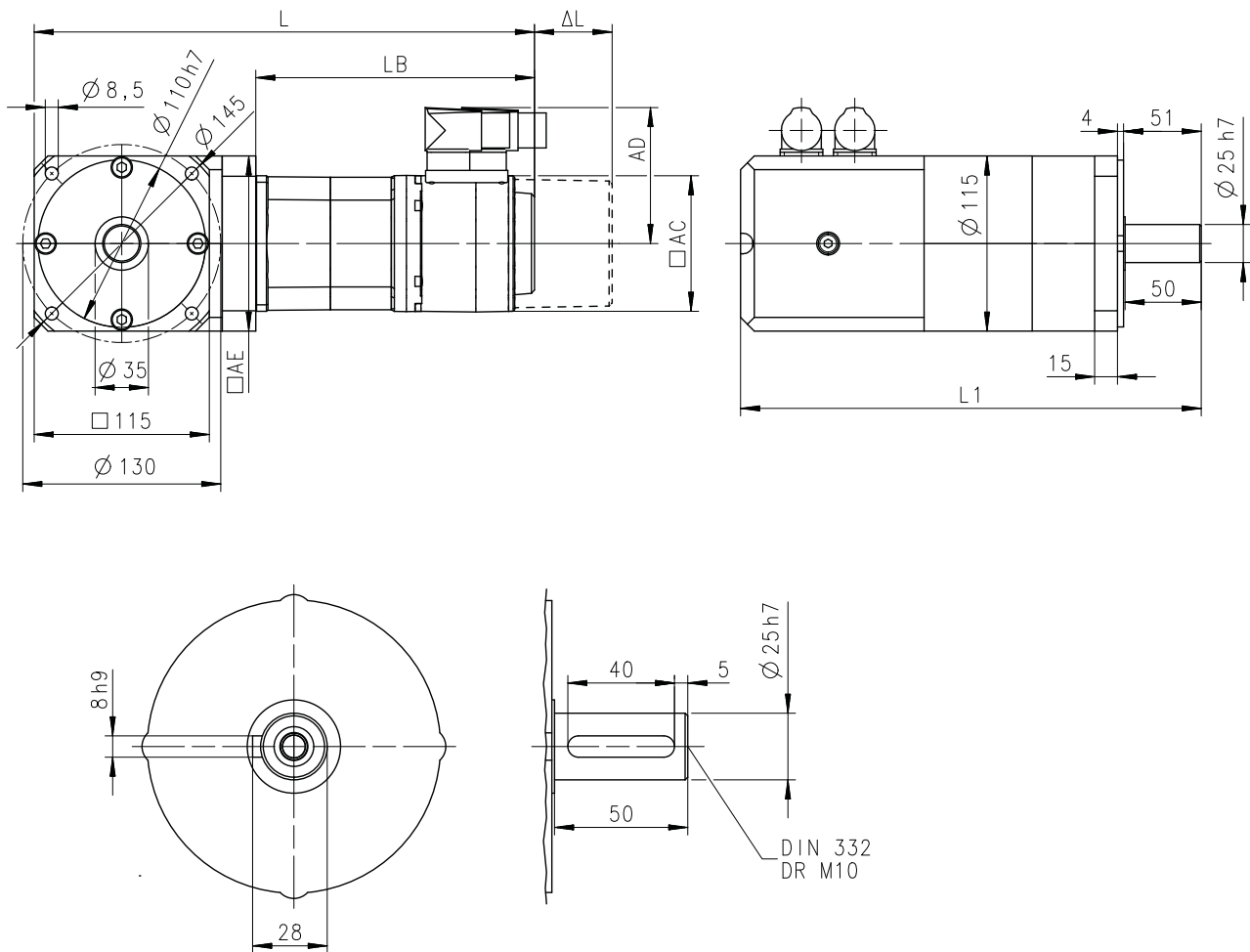
8800815-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	277.5	307.5	307.5	337.5	337.5
Gearbox length	L1	mm	330	330	330	330	330
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	115	115	115	115	115



g720-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800815-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	274.5	274.5	274.5	274.5	274.5	274.5	274.5	274.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

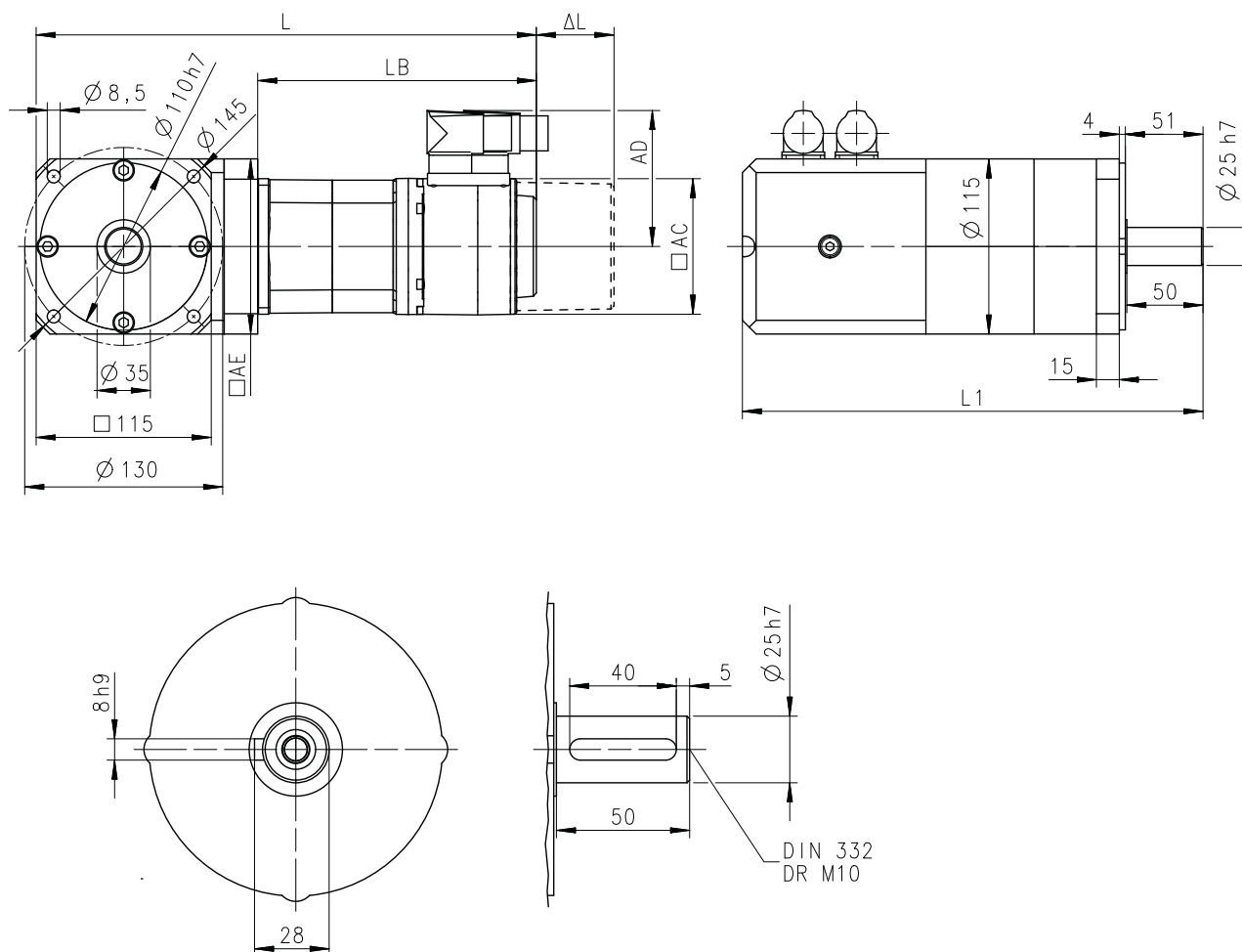
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



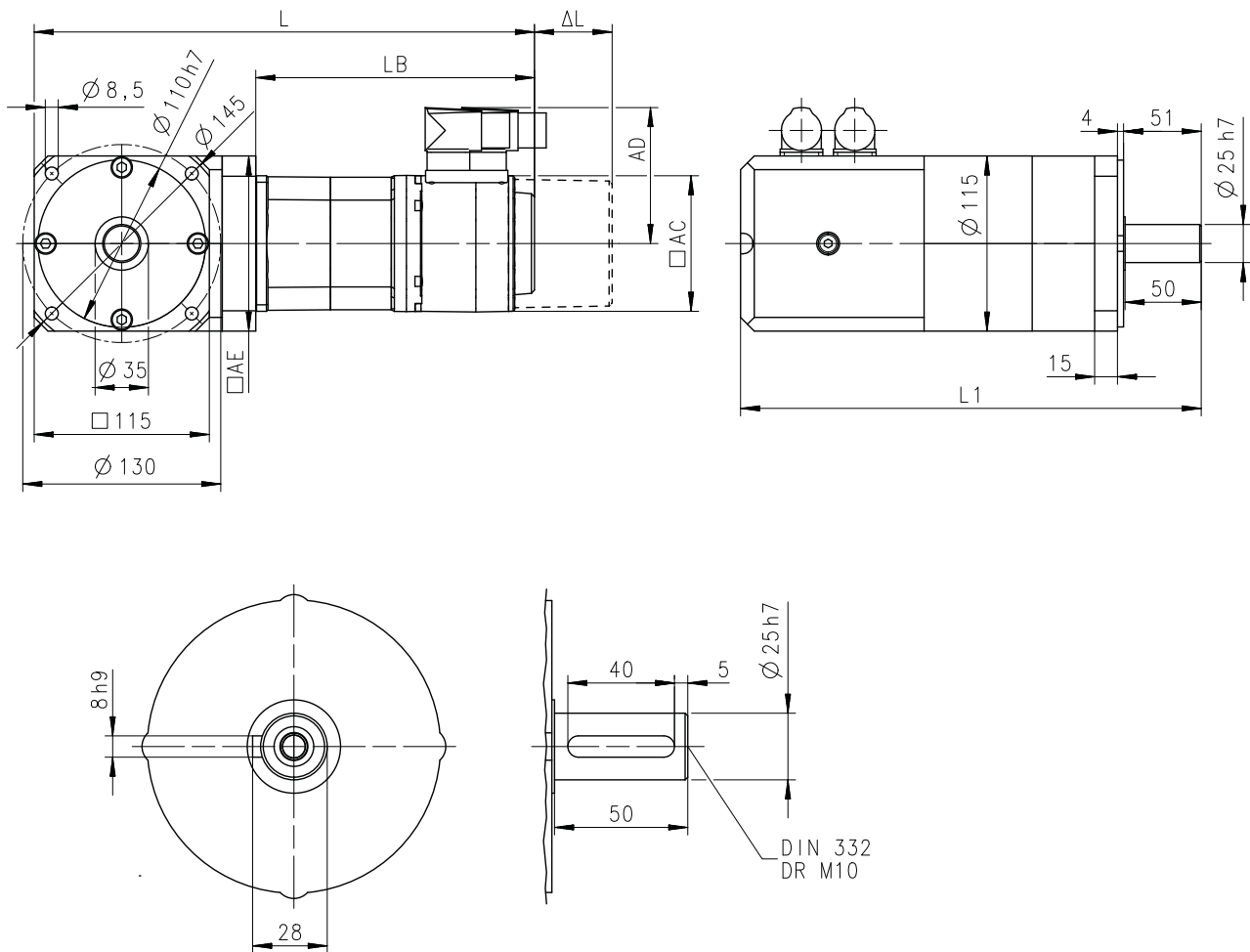
8800815-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115



g720-B260 with MCS09

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800815-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	330	330	330	330	330	330	330	330
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

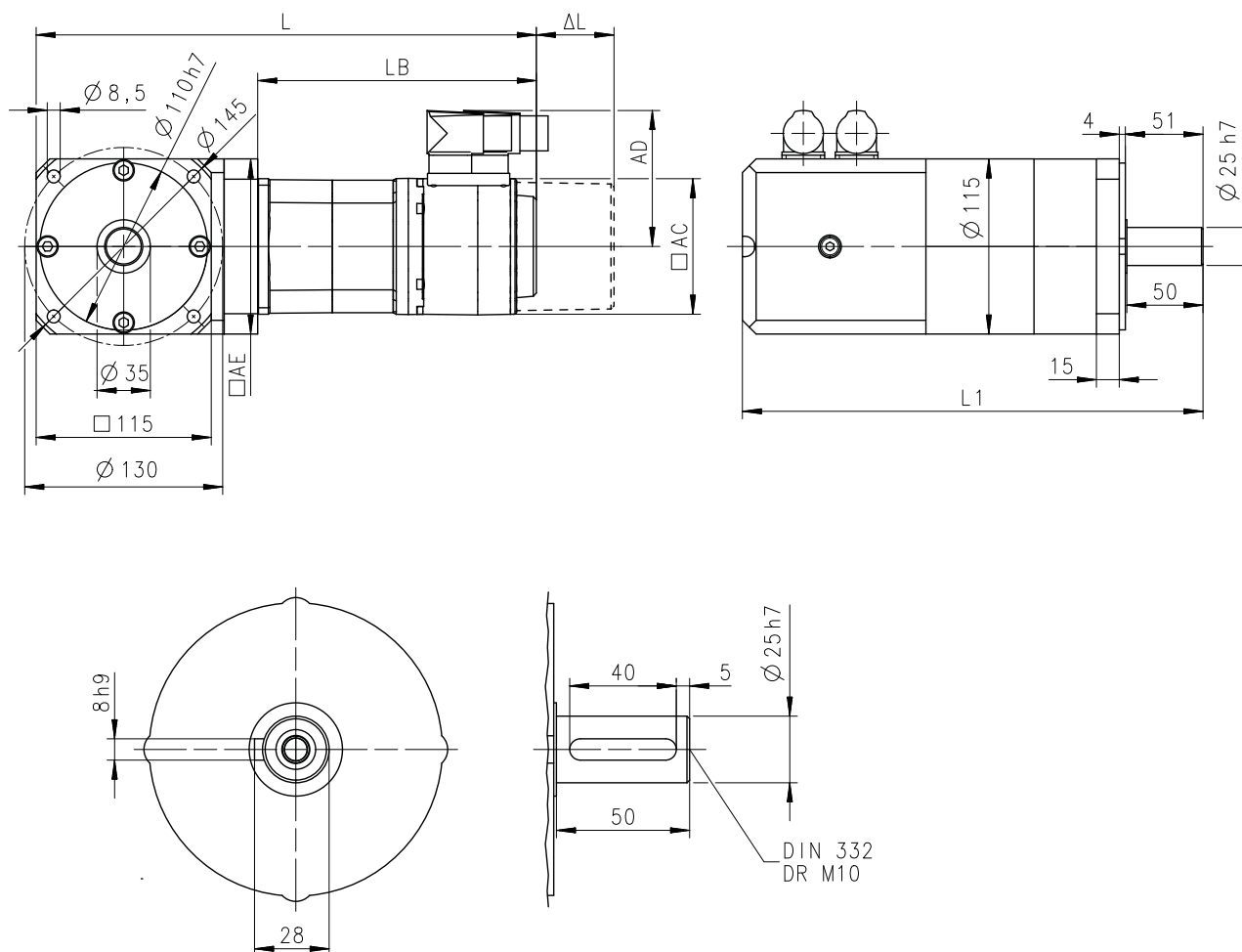
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



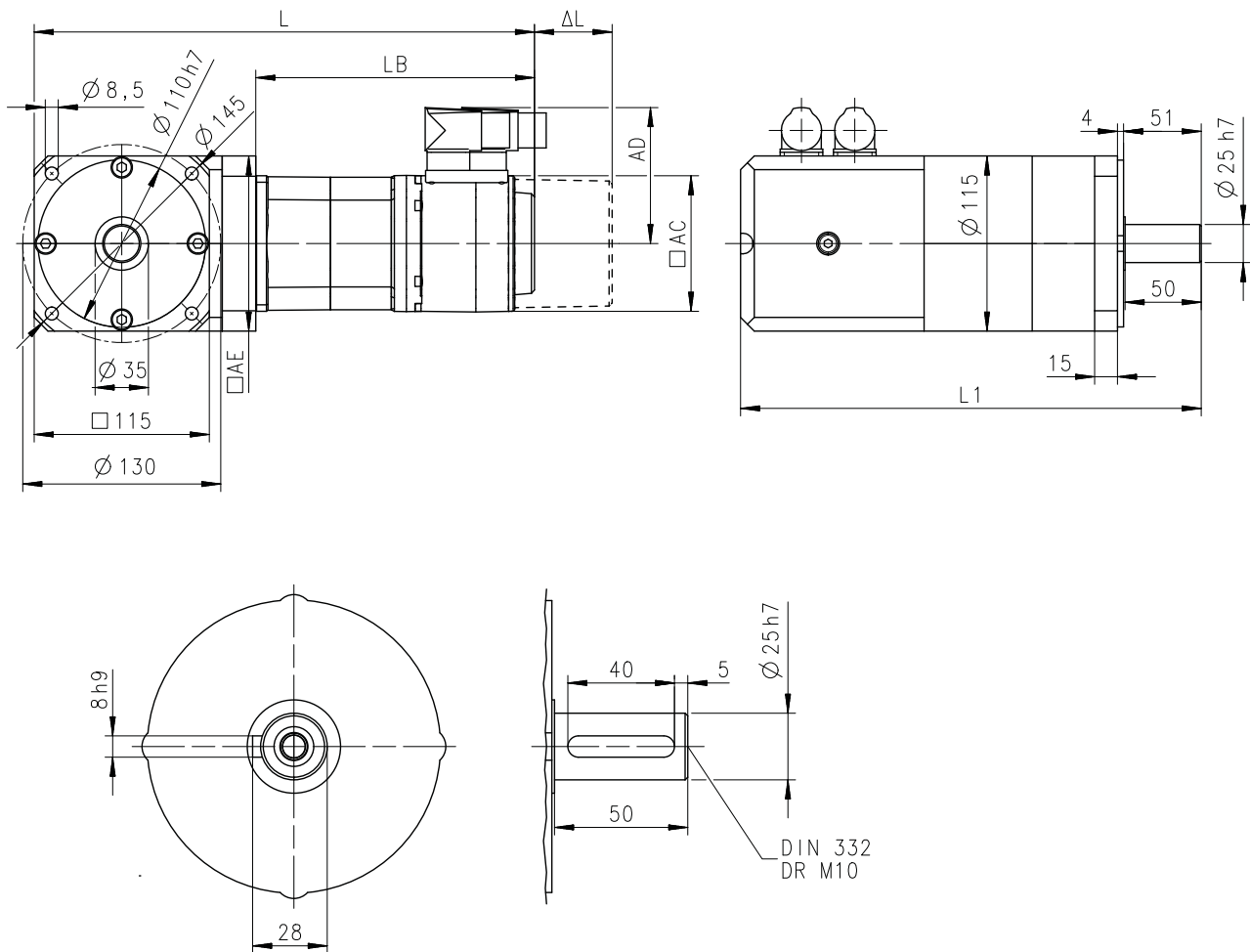
8800815-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	274.5	274.5	274.5	274.5	274.5	274.5	274.5	274.5	274.5	274.5	274.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115



g720-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800815-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

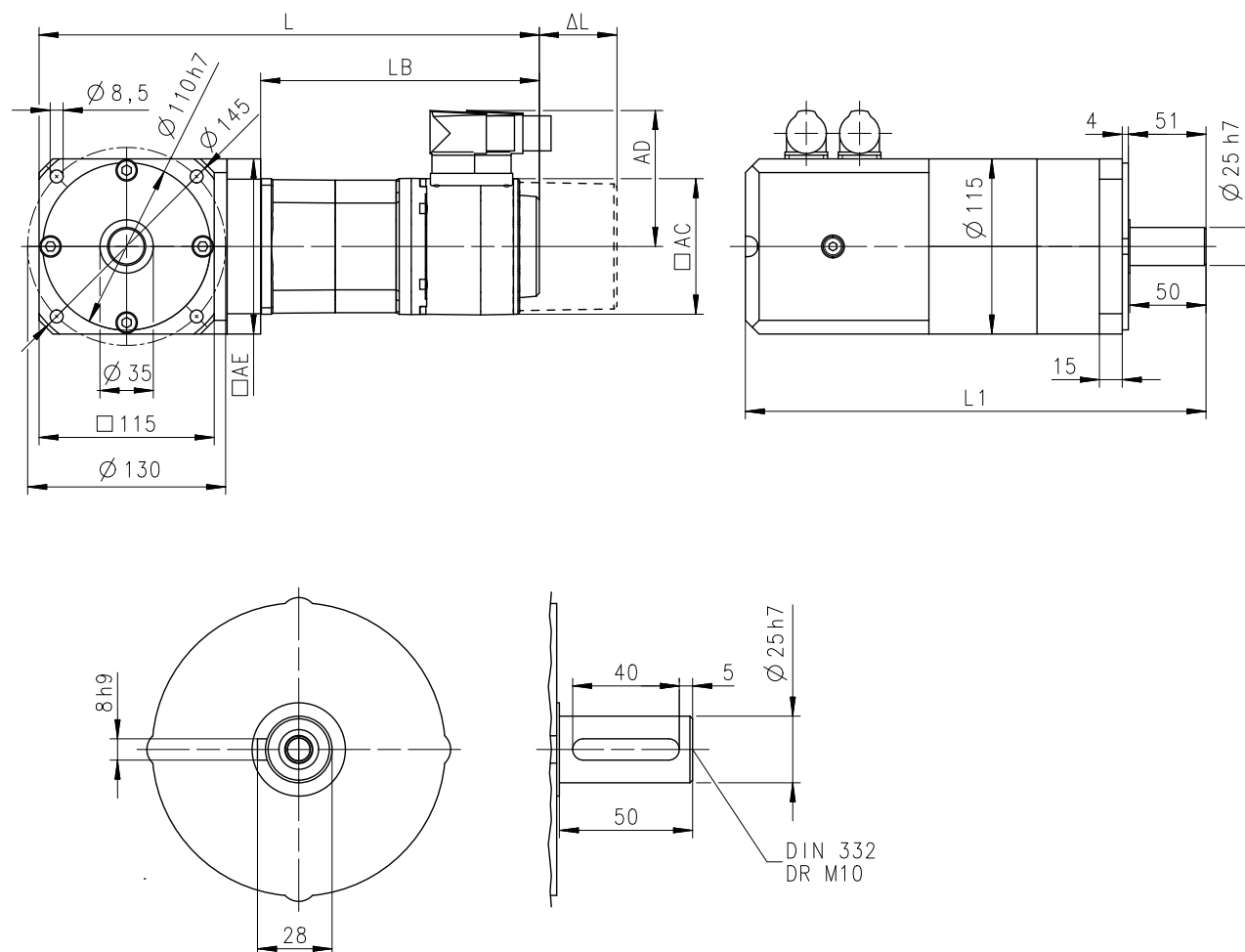
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B260 with MCS12

Gearbox design: Solid shaft, without foot with centering, 3-stage



8800815-00

Motor			MCS 12
			D41- D41L
Total length	L	mm	333.5
Gearbox length	L1	mm	330
Motor length	LB	mm	188
Motor diameter	AC	mm	116
Motor/connection distance	AD	mm	105
Gearbox diameter	AE	mm	115



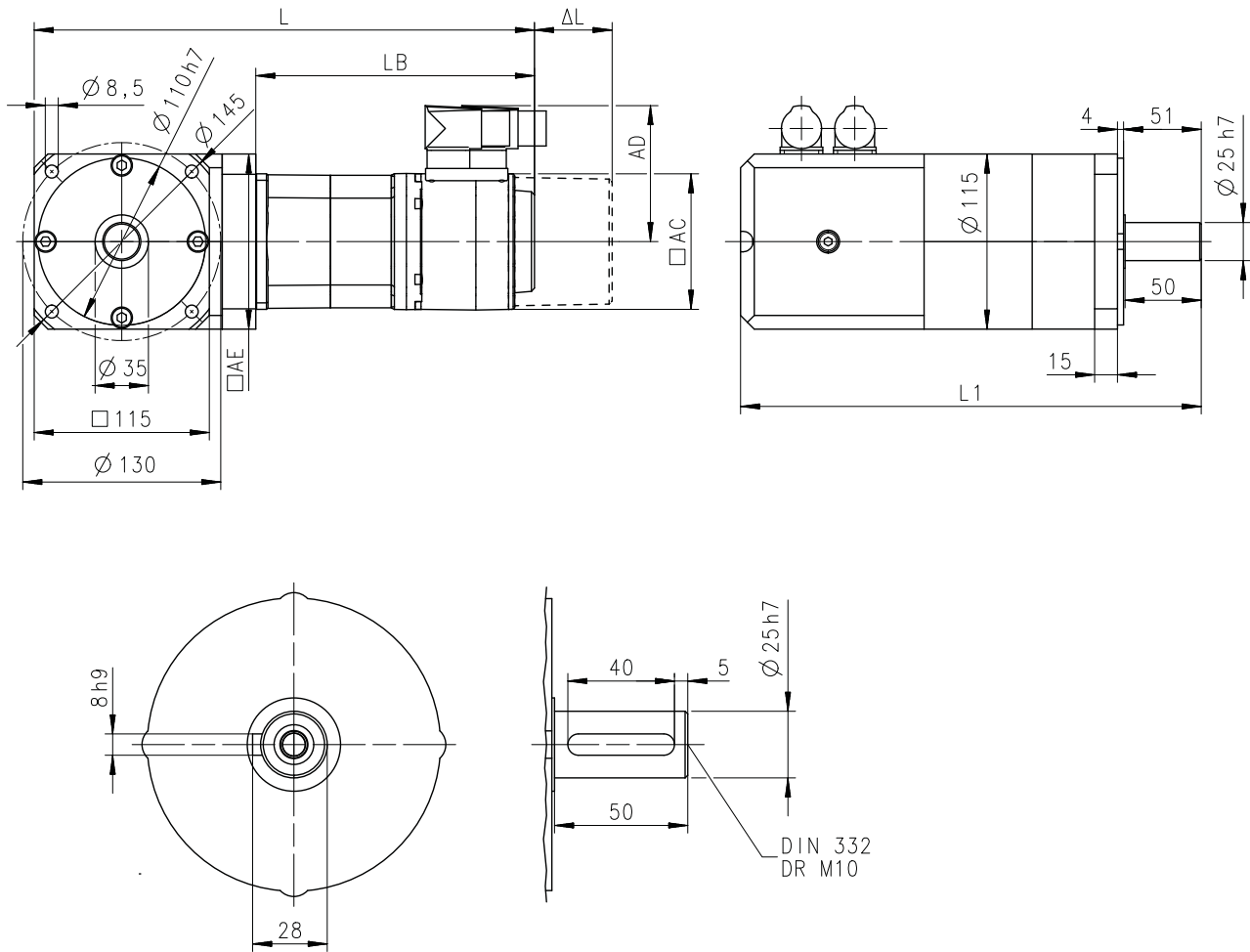
Technical data

Bevel gearbox g720-B
Basic dimensions



g720-B260 with MCS14

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800815-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	302.5	302.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140



Bevel gearbox g730-B

The modular system

g730-B bevel planetary gearbox with MCS synchronous servo motor

Gearbox		g730-B33	g730-B97	g730-B195
Min. motor assignment		MCS06	MCS06	MCS06
Max. motor assignment		MCS06	MCS12	MCS14
Technical data				
Max. output torque	Nm	33	97	195
Min. input torque	Nm	0.6	0.6	0.6
Max. input torque	Nm	0.6	17	42
Mounting position		Any		
Color		Primed Painted in RAL colors		
Surface and corrosion protection		OKS-G Different types of OKS		
Output shaft				
Solid shaft with featherkey	mm	16 x 28	22 x 36	32 x 58
Smooth solid shaft	mm	16 x 28	22 x 36	32 x 58
Shaft material		Steel		
Shaft sealing ring material		NBR		
Gearbox design		Without foot with centering		
Gearbox stages		1/2	1/2	1/2
Output flange	mm	70	90	120
Lubricant		Standard Food compatible		
Cooling		Self-ventilated Forced ventilated		
Motor connection		Connector Terminal box		
Holding brake		Without With		
Feedback				
Without functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
With functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder		
Temperature monitoring		MCS06: PT1000 temperature sensor MCS09 ... MCS19: PT1000 temperature sensor and 2x PTC thermistor		



Gearbox data

g730-B33, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	14.0	16	2
4	19.0	16	3
5	24.0	16	4
7	25.0	16	4
8	18.0	16	4
10	15.0	16	4

g730-B33, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	33.0	18	4
12	33.0	18	5
15	33.0	18	5
16	33.0	18	5
20	33.0	18	5
25	30.0	18	5
32	33.0	18	5
40	30.0	18	5

g730-B97, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	40.0	13	5
4	53.0	13	8
5	67.0	13	9
7	65.0	13	10
8	50.0	13	10
10	38.0	13	11

g730-B97, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	97.0	15	10
12	90.0	15	13
15	82.0	15	13
16	90.0	15	14
20	90.0	15	14
25	82.0	15	14
32	90.0	15	14
40	82.0	15	14
64	50.0	15	11
100	38.0	15	9



g730-B195, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	80.0	11	13
4	105	11	20
5	130	11	25
8	120	11	28
7	135	11	28
10	95.0	11	26

g730-B195, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	157	13	31
12	195	13	37
15	172	13	36
16	195	13	38
20	195	13	39
25	172	13	37
32	195	13	38
40	172	13	36
64	120	13	28
100	95.0	13	20

Radial forces and axial forces

Gearbox			g730-B33	g730-B33	g730-B97	g730-B97	g730-B195	g730-B195
Number of stages	z		1	2	1	2	1	2
Bearing service life 20000 h								
Speed		rpm	100	100	100	100	100	100
Radial force	F_{rad}	N	1050	1050	1900	1900	2500	2500
Axial force	F_{ax}	N	1350	1350	2000	2000	4000	4000
Bearing service life 30000 h								
Speed		rpm	100	100	100	100	100	100
Radial force	F_{rad}	N	900	900	1700	1700	2150	2150
Axial force	F_{ax}	N	1000	1000	1500	1500	3000	3000
Max. radial force	$F_{\text{rad, max}}$	N	1650	1650	3100	3100	4000	4000
Max. axial force	$F_{\text{ax, max}}$	N	2100	2100	3800	3800	5900	5900

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.5	579	5.1	25.0	289	0.360	7	B33	06C41-	1	4.6
3.5	579	5.1	25.0	289	0.360	7	B33	06C41L	1	4.6
4.0	450	4.7	33.0	225	0.466	9	B33	06C41-	2	4.9
4.0	450	4.7	33.0	225	0.466	9	B33	06C41L	2	4.9
4.2	506	4.0	18.0	253	0.359	8	B33	06C41-	1	4.6
4.2	506	4.0	18.0	253	0.359	8	B33	06C41L	1	4.6
5.5	405	2.8	15.0	203	0.358	10	B33	06C41-	1	4.6
5.5	405	2.8	15.0	203	0.358	10	B33	06C41L	1	4.6
5.9	338	3.8	33.0	169	0.466	12	B33	06C41-	2	4.9
5.9	338	3.8	33.0	169	0.466	12	B33	06C41L	2	4.9
7.6	270	3.4	33.0	135	0.364	15	B33	06C41-	2	4.9
7.6	270	3.4	33.0	135	0.364	15	B33	06C41L	2	4.9
8.3	253	3.1	33.0	127	0.368	16	B33	06C41-	2	4.9
8.3	253	3.1	33.0	127	0.368	16	B33	06C41L	2	4.9
11.0	203	2.7	33.0	101	0.363	20	B33	06C41-	2	4.9
11.0	203	2.7	33.0	101	0.363	20	B33	06C41L	2	4.9
14.0	162	2.2	30.0	81.0	0.363	25	B33	06C41-	2	4.9
14.0	162	2.2	30.0	81.0	0.363	25	B33	06C41L	2	4.9
14.0	127	5.2	90.0	63.0	1.058	32	B97	06C41-	2	8.4
14.0	127	5.2	90.0	63.0	1.058	32	B97	06C41L	2	8.4
17.0	127	1.9	33.0	63.0	0.359	32	B33	06C41-	2	4.9
17.0	127	1.9	33.0	63.0	0.359	32	B33	06C41L	2	4.9
19.0	101	3.8	82.0	51.0	1.057	40	B97	06C41-	2	8.4
19.0	101	3.8	82.0	51.0	1.057	40	B97	06C41L	2	8.4
21.0	101	1.4	30.0	51.0	0.359	40	B33	06C41-	2	4.9
21.0	101	1.4	30.0	51.0	0.359	40	B33	06C41L	2	4.9
31.0	63.3	1.6	50.0	32.0	1.057	64	B97	06C41-	2	8.4
31.0	63.3	1.6	50.0	32.0	1.057	64	B97	06C41L	2	8.4
31.0	63.3	3.7	120	32.0	1.996	64	B195	06C41-	2	18
31.0	63.3	3.7	120	32.0	1.996	64	B195	06C41L	2	18
45.0	40.5	2.1	95.0	20.0	1.958	100	B195	06C41-	2	18
45.0	40.5	2.1	95.0	20.0	1.958	100	B195	06C41L	2	18



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.31 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.9	857	5.5	25.0	429	0.360	7	B33	06C60-	1	4.6
2.9	857	5.5	25.0	429	0.360	7	B33	06C60L	1	4.6
3.3	667	5.1	33.0	333	0.466	9	B33	06C60-	2	4.9
3.3	667	5.1	33.0	333	0.466	9	B33	06C60L	2	4.9
3.4	750	4.8	18.0	375	0.359	8	B33	06C60-	1	4.6
3.4	750	4.8	18.0	375	0.359	8	B33	06C60L	1	4.6
4.5	600	3.3	15.0	300	0.358	10	B33	06C60-	1	4.6
4.5	600	3.3	15.0	300	0.358	10	B33	06C60L	1	4.6
4.8	500	4.0	33.0	250	0.466	12	B33	06C60-	2	4.9
4.8	500	4.0	33.0	250	0.466	12	B33	06C60L	2	4.9
6.2	400	3.6	33.0	200	0.364	15	B33	06C60-	2	4.9
6.2	400	3.6	33.0	200	0.364	15	B33	06C60L	2	4.9
6.8	375	3.3	33.0	188	0.368	16	B33	06C60-	2	4.9
6.8	375	3.3	33.0	188	0.368	16	B33	06C60L	2	4.9
8.8	300	2.9	33.0	150	0.363	20	B33	06C60-	2	4.9
8.8	300	2.9	33.0	150	0.363	20	B33	06C60L	2	4.9
11.0	240	2.4	30.0	120	0.363	25	B33	06C60-	2	4.9
11.0	240	2.4	30.0	120	0.363	25	B33	06C60L	2	4.9
14.0	188	2.1	33.0	94.0	0.359	32	B33	06C60-	2	4.9
14.0	188	2.1	33.0	94.0	0.359	32	B33	06C60L	2	4.9
15.0	150	4.6	82.0	75.0	1.057	40	B97	06C60-	2	8.4
15.0	150	4.6	82.0	75.0	1.057	40	B97	06C60L	2	8.4
17.0	150	1.7	30.0	75.0	0.359	40	B33	06C60-	2	4.9
17.0	150	1.7	30.0	75.0	0.359	40	B33	06C60L	2	4.9
26.0	93.8	2.0	50.0	47.0	1.057	64	B97	06C60-	2	8.4
26.0	93.8	2.0	50.0	47.0	1.057	64	B97	06C60L	2	8.4
35.0	60.0	1.1	38.0	30.0	1.047	100	B97	06C60-	2	8.4
35.0	60.0	1.1	38.0	30.0	1.047	100	B97	06C60L	2	8.4

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.3	1350	3.3	14.0	675	0.549	3	B33	06F41-	1	5.0
3.3	1350	3.3	14.0	675	0.549	3	B33	06F41L	1	5.0
4.3	1013	3.6	19.0	506	0.450	4	B33	06F41-	1	5.0
4.3	1013	3.6	19.0	506	0.450	4	B33	06F41L	1	5.0
5.4	810	3.3	24.0	405	0.444	5	B33	06F41-	1	5.0
5.4	810	3.3	24.0	405	0.444	5	B33	06F41L	1	5.0
7.7	450	5.2	97.0	225	1.465	9	B97	06F41-	2	8.8
7.7	450	5.2	97.0	225	1.465	9	B97	06F41L	2	8.8
7.9	579	2.6	25.0	289	0.440	7	B33	06F41-	1	5.0
7.9	579	2.6	25.0	289	0.440	7	B33	06F41L	1	5.0
7.9	506	5.5	50.0	253	1.164	8	B97	06F41-	1	8.0
7.9	506	5.5	50.0	253	1.164	8	B97	06F41L	1	8.0
8.9	506	2.0	18.0	253	0.439	8	B33	06F41-	1	5.0
8.9	506	2.0	18.0	253	0.439	8	B33	06F41L	1	5.0
9.9	450	2.4	33.0	225	0.546	9	B33	06F41-	2	5.3
9.9	450	2.4	33.0	225	0.546	9	B33	06F41L	2	5.3
11.0	405	1.4	15.0	203	0.438	10	B33	06F41-	1	5.0
11.0	405	1.4	15.0	203	0.438	10	B33	06F41L	1	5.0
11.0	405	3.4	38.0	203	1.145	10	B97	06F41-	1	8.0
11.0	405	3.4	38.0	203	1.145	10	B97	06F41L	1	8.0
13.0	338	1.9	33.0	169	0.546	12	B33	06F41-	2	5.3
13.0	338	1.9	33.0	169	0.546	12	B33	06F41L	2	5.3
13.0	270	4.9	82.0	135	1.431	15	B97	06F41-	2	8.8
13.0	270	4.9	82.0	135	1.431	15	B97	06F41L	2	8.8
14.0	253	5.0	90.0	127	1.222	16	B97	06F41-	2	8.8
14.0	253	5.0	90.0	127	1.222	16	B97	06F41L	2	8.8
17.0	270	1.7	33.0	135	0.444	15	B33	06F41-	2	5.3
17.0	270	1.7	33.0	135	0.444	15	B33	06F41L	2	5.3
18.0	253	1.6	33.0	127	0.448	16	B33	06F41-	2	5.3
18.0	253	1.6	33.0	127	0.448	16	B33	06F41L	2	5.3
19.0	203	4.1	90.0	101	1.180	20	B97	06F41-	2	8.8
19.0	203	4.1	90.0	101	1.180	20	B97	06F41L	2	8.8
22.0	203	1.4	33.0	101	0.443	20	B33	06F41-	2	5.3
22.0	203	1.4	33.0	101	0.443	20	B33	06F41L	2	5.3
26.0	162	3.0	82.0	81.0	1.176	25	B97	06F41-	2	8.8
26.0	162	3.0	82.0	81.0	1.176	25	B97	06F41L	2	8.8
26.0	127	5.6	195	63.0	2.084	32	B195	06F41-	2	18
26.0	127	5.6	195	63.0	2.084	32	B195	06F41L	2	18
27.0	162	1.1	30.0	81.0	0.443	25	B33	06F41-	2	5.3
27.0	162	1.1	30.0	81.0	0.443	25	B33	06F41L	2	5.3
34.0	127	2.6	90.0	63.0	1.138	32	B97	06F41-	2	8.8
34.0	127	2.6	90.0	63.0	1.138	32	B97	06F41L	2	8.8
38.0	101	4.0	172	51.0	2.080	40	B195	06F41-	2	18
38.0	101	4.0	172	51.0	2.080	40	B195	06F41L	2	18
43.0	101	1.9	82.0	51.0	1.137	40	B97	06F41-	2	8.8
43.0	101	1.9	82.0	51.0	1.137	40	B97	06F41L	2	8.8
65.0	63.3	1.9	120	32.0	2.076	64	B195	06F41-	2	18
65.0	63.3	1.9	120	32.0	2.076	64	B195	06F41L	2	18
90.0	40.5	1.1	95.0	20.0	2.038	100	B195	06F41-	2	18
90.0	40.5	1.1	95.0	20.0	2.038	100	B195	06F41L	2	18



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.4	2000	3.9	14.0	1000	0.549	3	B33	06F60-	1	5.0
2.4	2000	3.9	14.0	1000	0.549	3	B33	06F60L	1	5.0
3.1	1500	4.2	19.0	750	0.450	4	B33	06F60-	1	5.0
3.1	1500	4.2	19.0	750	0.450	4	B33	06F60L	1	5.0
4.0	1200	3.9	24.0	600	0.444	5	B33	06F60-	1	5.0
4.0	1200	3.9	24.0	600	0.444	5	B33	06F60L	1	5.0
5.8	857	3.0	25.0	429	0.440	7	B33	06F60-	1	5.0
5.8	857	3.0	25.0	429	0.440	7	B33	06F60L	1	5.0
6.7	750	2.7	18.0	375	0.439	8	B33	06F60-	1	5.0
6.7	750	2.7	18.0	375	0.439	8	B33	06F60L	1	5.0
7.2	667	2.8	33.0	333	0.546	9	B33	06F60-	2	5.3
7.2	667	2.8	33.0	333	0.546	9	B33	06F60L	2	5.3
7.7	600	4.6	38.0	300	1.145	10	B97	06F60-	1	8.0
7.7	600	4.6	38.0	300	1.145	10	B97	06F60L	1	8.0
8.2	600	1.8	15.0	300	0.438	10	B33	06F60-	1	5.0
8.2	600	1.8	15.0	300	0.438	10	B33	06F60L	1	5.0
10.0	500	2.2	33.0	250	0.546	12	B33	06F60-	2	5.3
10.0	500	2.2	33.0	250	0.546	12	B33	06F60L	2	5.3
12.0	400	2.0	33.0	200	0.444	15	B33	06F60-	2	5.3
12.0	400	2.0	33.0	200	0.444	15	B33	06F60L	2	5.3
13.0	375	1.9	33.0	188	0.448	16	B33	06F60-	2	5.3
13.0	375	1.9	33.0	188	0.448	16	B33	06F60L	2	5.3
13.0	300	5.4	90.0	150	1.180	20	B97	06F60-	2	8.8
13.0	300	5.4	90.0	150	1.180	20	B97	06F60L	2	8.8
16.0	300	1.6	33.0	150	0.443	20	B33	06F60-	2	5.3
16.0	300	1.6	33.0	150	0.443	20	B33	06F60L	2	5.3
18.0	240	4.0	82.0	120	1.176	25	B97	06F60-	2	8.8
18.0	240	4.0	82.0	120	1.176	25	B97	06F60L	2	8.8
20.0	240	1.4	30.0	120	0.443	25	B33	06F60-	2	5.3
20.0	240	1.4	30.0	120	0.443	25	B33	06F60L	2	5.3
24.0	188	3.5	90.0	94.0	1.138	32	B97	06F60-	2	8.8
24.0	188	3.5	90.0	94.0	1.138	32	B97	06F60L	2	8.8
26.0	188	1.2	33.0	94.0	0.439	32	B33	06F60-	2	5.3
26.0	188	1.2	33.0	94.0	0.439	32	B33	06F60L	2	5.3
26.0	150	5.3	172	75.0	2.080	40	B195	06F60-	2	18
26.0	150	5.3	172	75.0	2.080	40	B195	06F60L	2	18
32.0	150	2.6	82.0	75.0	1.137	40	B97	06F60-	2	8.8
32.0	150	2.6	82.0	75.0	1.137	40	B97	06F60L	2	8.8
46.0	93.8	1.1	50.0	47.0	1.137	64	B97	06F60-	2	8.8
46.0	93.8	1.1	50.0	47.0	1.137	64	B97	06F60L	2	8.8
48.0	93.8	2.5	120	47.0	2.076	64	B195	06F60-	2	18
48.0	93.8	2.5	120	47.0	2.076	64	B195	06F60L	2	18
68.0	60.0	1.4	95.0	30.0	2.038	100	B195	06F60-	2	18
68.0	60.0	1.4	95.0	30.0	2.038	100	B195	06F60L	2	18

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.7	1350	5.4	40.0	675	1.708	3	B97	06I41-	1	8.7
3.7	1350	5.4	40.0	675	1.708	3	B97	06I41L	1	8.7
4.2	1350	2.6	14.0	675	0.629	3	B33	06I41-	1	5.7
4.2	1350	2.6	14.0	675	0.629	3	B33	06I41L	1	5.7
4.8	1013	5.9	53.0	506	1.407	4	B97	06I41-	1	8.7
4.8	1013	5.9	53.0	506	1.407	4	B97	06I41L	1	8.7
5.5	1013	2.9	19.0	506	0.530	4	B33	06I41-	1	5.7
5.5	1013	2.9	19.0	506	0.530	4	B33	06I41L	1	5.7
7.0	810	2.7	24.0	405	0.524	5	B33	06I41-	1	5.7
7.0	810	2.7	24.0	405	0.524	5	B33	06I41L	1	5.7
9.9	579	2.1	25.0	289	0.520	7	B33	06I41-	1	5.7
9.9	579	2.1	25.0	289	0.520	7	B33	06I41L	1	5.7
10.0	506	4.4	50.0	253	1.244	8	B97	06I41-	1	8.7
10.0	506	4.4	50.0	253	1.244	8	B97	06I41L	1	8.7
11.0	506	1.6	18.0	253	0.519	8	B33	06I41-	1	5.7
11.0	506	1.6	18.0	253	0.519	8	B33	06I41L	1	5.7
11.0	450	4.2	97.0	225	1.545	9	B97	06I41-	2	9.5
11.0	450	4.2	97.0	225	1.545	9	B97	06I41L	2	9.5
13.0	450	1.9	33.0	225	0.626	9	B33	06I41-	2	6.0
13.0	450	1.9	33.0	225	0.626	9	B33	06I41L	2	6.0
13.0	338	5.1	90.0	169	1.520	12	B97	06I41-	2	9.5
13.0	338	5.1	90.0	169	1.520	12	B97	06I41L	2	9.5
14.0	405	1.1	15.0	203	0.518	10	B33	06I41-	1	5.7
14.0	405	1.1	15.0	203	0.518	10	B33	06I41L	1	5.7
14.0	405	2.8	38.0	203	1.225	10	B97	06I41-	1	8.7
14.0	405	2.8	38.0	203	1.225	10	B97	06I41L	1	8.7
17.0	338	1.5	33.0	169	0.626	12	B33	06I41-	2	6.0
17.0	338	1.5	33.0	169	0.626	12	B33	06I41L	2	6.0
18.0	270	3.9	82.0	135	1.511	15	B97	06I41-	2	9.5
18.0	270	3.9	82.0	135	1.511	15	B97	06I41L	2	9.5
19.0	253	4.0	90.0	127	1.302	16	B97	06I41-	2	9.5
19.0	253	4.0	90.0	127	1.302	16	B97	06I41L	2	9.5
21.0	270	1.3	33.0	135	0.524	15	B33	06I41-	2	6.0
21.0	270	1.3	33.0	135	0.524	15	B33	06I41L	2	6.0
22.0	253	1.3	33.0	127	0.528	16	B33	06I41-	2	6.0
22.0	253	1.3	33.0	127	0.528	16	B33	06I41L	2	6.0
26.0	203	3.3	90.0	101	1.260	20	B97	06I41-	2	9.5
26.0	203	3.3	90.0	101	1.260	20	B97	06I41L	2	9.5
27.0	203	1.1	33.0	101	0.523	20	B33	06I41-	2	6.0
27.0	203	1.1	33.0	101	0.523	20	B33	06I41L	2	6.0
27.0	162	5.0	172	81.0	2.312	25	B195	06I41-	2	19
27.0	162	5.0	172	81.0	2.312	25	B195	06I41L	2	19
34.0	162	2.4	82.0	81.0	1.256	25	B97	06I41-	2	9.5
34.0	162	2.4	82.0	81.0	1.256	25	B97	06I41L	2	9.5
37.0	127	4.5	195	63.0	2.164	32	B195	06I41-	2	19
37.0	127	4.5	195	63.0	2.164	32	B195	06I41L	2	19
43.0	127	2.1	90.0	63.0	1.218	32	B97	06I41-	2	9.5
43.0	127	2.1	90.0	63.0	1.218	32	B97	06I41L	2	9.5
51.0	101	3.2	172	51.0	2.160	40	B195	06I41-	2	19
51.0	101	3.2	172	51.0	2.160	40	B195	06I41L	2	19
53.0	101	1.5	82.0	51.0	1.217	40	B97	06I41-	2	9.5



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
53.0	101	1.5	82.0	51.0	1.217	40	B97	06I41L	2	9.5
81.0	63.3	1.5	120	32.0	2.156	64	B195	06I41-	2	19
81.0	63.3	1.5	120	32.0	2.156	64	B195	06I41L	2	19

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.9	2000	5.9	40.0	1000	1.708	3	B97	06I60-	1	8.7
2.9	2000	5.9	40.0	1000	1.708	3	B97	06I60L	1	8.7
3.3	2000	2.9	14.0	1000	0.629	3	B33	06I60-	1	5.7
3.3	2000	2.9	14.0	1000	0.629	3	B33	06I60L	1	5.7
4.4	1500	3.2	19.0	750	0.530	4	B33	06I60-	1	5.7
4.4	1500	3.2	19.0	750	0.530	4	B33	06I60L	1	5.7
5.5	1200	3.0	24.0	600	0.524	5	B33	06I60-	1	5.7
5.5	1200	3.0	24.0	600	0.524	5	B33	06I60L	1	5.7
7.9	857	2.3	25.0	429	0.520	7	B33	06I60-	1	5.7
7.9	857	2.3	25.0	429	0.520	7	B33	06I60L	1	5.7
7.9	750	5.5	50.0	375	1.244	8	B97	06I60-	1	8.7
7.9	750	5.5	50.0	375	1.244	8	B97	06I60L	1	8.7
8.1	667	4.7	97.0	333	1.545	9	B97	06I60-	2	9.5
8.1	667	4.7	97.0	333	1.545	9	B97	06I60L	2	9.5
8.9	750	2.0	18.0	375	0.519	8	B33	06I60-	1	5.7
8.9	750	2.0	18.0	375	0.519	8	B33	06I60L	1	5.7
9.8	500	5.7	90.0	250	1.520	12	B97	06I60-	2	9.5
9.8	500	5.7	90.0	250	1.520	12	B97	06I60L	2	9.5
10.0	667	2.1	33.0	333	0.626	9	B33	06I60-	2	6.0
10.0	667	2.1	33.0	333	0.626	9	B33	06I60L	2	6.0
11.0	600	1.4	15.0	300	0.518	10	B33	06I60-	1	5.7
11.0	600	1.4	15.0	300	0.518	10	B33	06I60L	1	5.7
11.0	600	3.4	38.0	300	1.225	10	B97	06I60-	1	8.7
11.0	600	3.4	38.0	300	1.225	10	B97	06I60L	1	8.7
13.0	500	1.7	33.0	250	0.626	12	B33	06I60-	2	6.0
13.0	500	1.7	33.0	250	0.626	12	B33	06I60L	2	6.0
13.0	400	4.8	82.0	200	1.511	15	B97	06I60-	2	9.5
13.0	400	4.8	82.0	200	1.511	15	B97	06I60L	2	9.5
14.0	375	4.7	90.0	188	1.302	16	B97	06I60-	2	9.5
14.0	375	4.7	90.0	188	1.302	16	B97	06I60L	2	9.5
17.0	400	1.5	33.0	200	0.524	15	B33	06I60-	2	6.0
17.0	400	1.5	33.0	200	0.524	15	B33	06I60L	2	6.0
18.0	375	1.4	33.0	188	0.528	16	B33	06I60-	2	6.0
18.0	375	1.4	33.0	188	0.528	16	B33	06I60L	2	6.0
19.0	300	4.0	90.0	150	1.260	20	B97	06I60-	2	9.5
19.0	300	4.0	90.0	150	1.260	20	B97	06I60L	2	9.5
22.0	300	1.2	33.0	150	0.523	20	B33	06I60-	2	6.0
22.0	300	1.2	33.0	150	0.523	20	B33	06I60L	2	6.0
26.0	240	3.0	82.0	120	1.256	25	B97	06I60-	2	9.5
26.0	240	3.0	82.0	120	1.256	25	B97	06I60L	2	9.5
26.0	188	5.6	195	94.0	2.164	32	B195	06I60-	2	19
26.0	188	5.6	195	94.0	2.164	32	B195	06I60L	2	19
27.0	240	1.0	30.0	120	0.523	25	B33	06I60-	2	6.0
27.0	240	1.0	30.0	120	0.523	25	B33	06I60L	2	6.0
34.0	188	2.6	90.0	94.0	1.218	32	B97	06I60-	2	9.5
34.0	188	2.6	90.0	94.0	1.218	32	B97	06I60L	2	9.5
38.0	150	4.0	172	75.0	2.160	40	B195	06I60-	2	19
38.0	150	4.0	172	75.0	2.160	40	B195	06I60L	2	19
43.0	150	1.9	82.0	75.0	1.217	40	B97	06I60-	2	9.5
43.0	150	1.9	82.0	75.0	1.217	40	B97	06I60L	2	9.5
65.0	93.8	1.9	120	47.0	2.156	64	B195	06I60-	2	19



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
65.0	93.8	1.9	120	47.0	2.156	64	B195	06I60L	2	19
90.0	60.0	1.1	95.0	30.0	2.118	100	B195	06I60-	2	19
90.0	60.0	1.1	95.0	30.0	2.118	100	B195	06I60L	2	19

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.2	1350	3.5	40.0	675	2.508	3	B97	09D41-	1	10
6.2	1350	3.5	40.0	675	2.508	3	B97	09D41L	1	10
8.1	1013	3.9	53.0	506	2.207	4	B97	09D41-	1	10
8.1	1013	3.9	53.0	506	2.207	4	B97	09D41L	1	10
10.0	810	4.2	67.0	405	2.126	5	B97	09D41-	1	10
10.0	810	4.2	67.0	405	2.126	5	B97	09D41L	1	10
14.0	579	4.3	65.0	289	2.060	7	B97	09D41-	1	10
14.0	579	4.3	65.0	289	2.060	7	B97	09D41L	1	10
14.0	450	5.8	157	225	3.918	9	B195	09D41-	2	21
14.0	450	5.8	157	225	3.918	9	B195	09D41L	2	21
17.0	506	2.9	50.0	253	2.044	8	B97	09D41-	1	10
17.0	506	2.9	50.0	253	2.044	8	B97	09D41L	1	10
18.0	450	2.7	97.0	225	2.345	9	B97	09D41-	2	11
18.0	450	2.7	97.0	225	2.345	9	B97	09D41L	2	11
20.0	405	4.4	95.0	203	2.961	10	B195	09D41-	1	18
20.0	405	4.4	95.0	203	2.961	10	B195	09D41L	1	18
21.0	405	1.8	38.0	203	2.025	10	B97	09D41-	1	10
21.0	405	1.8	38.0	203	2.025	10	B97	09D41L	1	10
23.0	338	3.3	90.0	169	2.320	12	B97	09D41-	2	11
23.0	338	3.3	90.0	169	2.320	12	B97	09D41L	2	11
24.0	270	5.4	172	135	3.802	15	B195	09D41-	2	21
24.0	270	5.4	172	135	3.802	15	B195	09D41L	2	21
25.0	253	5.7	195	127	3.301	16	B195	09D41-	2	21
25.0	253	5.7	195	127	3.301	16	B195	09D41L	2	21
31.0	270	2.6	82.0	135	2.311	15	B97	09D41-	2	11
31.0	270	2.6	82.0	135	2.311	15	B97	09D41L	2	11
33.0	253	2.6	90.0	127	2.102	16	B97	09D41-	2	11
33.0	253	2.6	90.0	127	2.102	16	B97	09D41L	2	11
35.0	203	4.6	195	101	3.123	20	B195	09D41-	2	21
35.0	203	4.6	195	101	3.123	20	B195	09D41L	2	21
42.0	203	2.1	90.0	101	2.060	20	B97	09D41-	2	11
42.0	203	2.1	90.0	101	2.060	20	B97	09D41L	2	11
49.0	162	3.3	172	81.0	3.112	25	B195	09D41-	2	21
49.0	162	3.3	172	81.0	3.112	25	B195	09D41L	2	21
52.0	162	1.6	82.0	81.0	2.056	25	B97	09D41-	2	11
52.0	162	1.6	82.0	81.0	2.056	25	B97	09D41L	2	11
64.0	127	2.9	195	63.0	2.964	32	B195	09D41-	2	21
64.0	127	2.9	195	63.0	2.964	32	B195	09D41L	2	21
66.0	127	1.4	90.0	63.0	2.018	32	B97	09D41-	2	11
66.0	127	1.4	90.0	63.0	2.018	32	B97	09D41L	2	11
82.0	101	1.0	82.0	51.0	2.017	40	B97	09D41-	2	11
82.0	101	1.0	82.0	51.0	2.017	40	B97	09D41L	2	11
83.0	101	2.1	172	51.0	2.960	40	B195	09D41-	2	21
83.0	101	2.1	172	51.0	2.960	40	B195	09D41L	2	21



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.8	2000	4.0	40.0	1000	2.508	3	B97	09D60-	1	10
4.8	2000	4.0	40.0	1000	2.508	3	B97	09D60L	1	10
6.2	1500	4.3	53.0	750	2.207	4	B97	09D60-	1	10
6.2	1500	4.3	53.0	750	2.207	4	B97	09D60L	1	10
7.7	1200	4.7	67.0	600	2.126	5	B97	09D60-	1	10
7.7	1200	4.7	67.0	600	2.126	5	B97	09D60L	1	10
11.0	857	5.1	65.0	429	2.060	7	B97	09D60-	1	10
11.0	857	5.1	65.0	429	2.060	7	B97	09D60L	1	10
13.0	750	3.7	50.0	375	2.044	8	B97	09D60-	1	10
13.0	750	3.7	50.0	375	2.044	8	B97	09D60L	1	10
14.0	667	3.1	97.0	333	2.345	9	B97	09D60-	2	11
14.0	667	3.1	97.0	333	2.345	9	B97	09D60L	2	11
14.0	650	4.2	80.0	325	7.248	3	B195	12D20-	1	21
14.0	650	4.2	80.0	325	7.248	3	B195	12D20L	1	21
15.0	600	5.6	95.0	300	2.961	10	B195	09D60-	1	18
15.0	600	5.6	95.0	300	2.961	10	B195	09D60L	1	18
16.0	650	1.9	40.0	325	5.408	3	B97	12D20-	1	12
16.0	650	1.9	40.0	325	5.408	3	B97	12D20L	1	12
17.0	600	2.3	38.0	300	2.025	10	B97	09D60-	1	10
17.0	600	2.3	38.0	300	2.025	10	B97	09D60L	1	10
18.0	500	3.8	90.0	250	2.320	12	B97	09D60-	2	11
18.0	500	3.8	90.0	250	2.320	12	B97	09D60L	2	11
19.0	488	4.7	105	244	6.492	4	B195	12D20-	1	21
19.0	488	4.7	105	244	6.492	4	B195	12D20L	1	21
21.0	488	2.1	53.0	244	5.107	4	B97	12D20-	1	12
21.0	488	2.1	53.0	244	5.107	4	B97	12D20L	1	12
23.0	400	3.2	82.0	200	2.311	15	B97	09D60-	2	11
23.0	400	3.2	82.0	200	2.311	15	B97	09D60L	2	11
23.0	390	5.0	130	195	6.209	5	B195	12D20-	1	21
23.0	390	5.0	130	195	6.209	5	B195	12D20L	1	21
24.0	300	5.8	195	150	3.123	20	B195	09D60-	2	21
24.0	300	5.8	195	150	3.123	20	B195	09D60L	2	21
25.0	375	3.1	90.0	188	2.102	16	B97	09D60-	2	11
25.0	375	3.1	90.0	188	2.102	16	B97	09D60L	2	11
26.0	390	2.2	67.0	195	5.026	5	B97	12D20-	1	12
26.0	390	2.2	67.0	195	5.026	5	B97	12D20L	1	12
32.0	300	2.7	90.0	150	2.060	20	B97	09D60-	2	11
32.0	300	2.7	90.0	150	2.060	20	B97	09D60L	2	11
34.0	279	3.7	135	139	5.989	7	B195	12D20-	1	21
34.0	279	3.7	135	139	5.989	7	B195	12D20L	1	21
35.0	240	4.2	172	120	3.112	25	B195	09D60-	2	21
35.0	240	4.2	172	120	3.112	25	B195	09D60L	2	21
37.0	279	1.8	65.0	139	4.960	7	B97	12D20-	1	12
37.0	279	1.8	65.0	139	4.960	7	B97	12D20L	1	12
41.0	244	1.2	50.0	122	4.944	8	B97	12D20-	1	12
41.0	244	1.2	50.0	122	4.944	8	B97	12D20L	1	12
41.0	244	2.9	120	122	5.936	8	B195	12D20-	1	21
41.0	244	2.9	120	122	5.936	8	B195	12D20L	1	21
41.0	240	2.0	82.0	120	2.056	25	B97	09D60-	2	11
41.0	240	2.0	82.0	120	2.056	25	B97	09D60L	2	11
43.0	217	3.0	157	108	6.818	9	B195	12D20-	2	23

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
43.0	217	3.0	157	108	6.818	9	B195	12D20L	2	23
47.0	217	1.4	97.0	108	5.245	9	B97	12D20-	2	13
47.0	217	1.4	97.0	108	5.245	9	B97	12D20L	2	13
47.0	188	3.7	195	94.0	2.964	32	B195	09D60-	2	21
47.0	188	3.7	195	94.0	2.964	32	B195	09D60L	2	21
52.0	195	1.8	95.0	98.0	5.861	10	B195	12D20-	1	21
52.0	195	1.8	95.0	98.0	5.861	10	B195	12D20L	1	21
52.0	188	1.7	90.0	94.0	2.018	32	B97	09D60-	2	11
52.0	188	1.7	90.0	94.0	2.018	32	B97	09D60L	2	11
57.0	163	3.1	195	81.0	6.733	12	B195	12D20-	2	23
57.0	163	3.1	195	81.0	6.733	12	B195	12D20L	2	23
61.0	163	1.5	90.0	81.0	5.220	12	B97	12D20-	2	13
61.0	163	1.5	90.0	81.0	5.220	12	B97	12D20L	2	13
64.0	150	1.3	82.0	75.0	2.017	40	B97	09D60-	2	11
64.0	150	1.3	82.0	75.0	2.017	40	B97	09D60L	2	11
64.0	150	2.7	172	75.0	2.960	40	B195	09D60-	2	21
64.0	150	2.7	172	75.0	2.960	40	B195	09D60L	2	21
76.0	130	2.2	172	65.0	6.702	15	B195	12D20-	2	23
76.0	130	2.2	172	65.0	6.702	15	B195	12D20L	2	23
77.0	130	1.1	82.0	65.0	5.211	15	B97	12D20-	2	13
77.0	130	1.1	82.0	65.0	5.211	15	B97	12D20L	2	13
80.0	122	2.4	195	61.0	6.201	16	B195	12D20-	2	23
80.0	122	2.4	195	61.0	6.201	16	B195	12D20L	2	23
82.0	122	1.1	90.0	61.0	5.002	16	B97	12D20-	2	13
82.0	122	1.1	90.0	61.0	5.002	16	B97	12D20L	2	13
97.0	93.8	1.2	120	47.0	2.956	64	B195	09D60-	2	21
97.0	93.8	1.2	120	47.0	2.956	64	B195	09D60L	2	21
102	97.5	1.9	195	49.0	6.023	20	B195	12D20-	2	23
102	97.5	1.9	195	49.0	6.023	20	B195	12D20L	2	23
125	78.0	1.4	172	39.0	6.012	25	B195	12D20-	2	23
125	78.0	1.4	172	39.0	6.012	25	B195	12D20L	2	23
160	60.9	1.2	195	30.0	5.864	32	B195	12D20-	2	23
160	60.9	1.2	195	30.0	5.864	32	B195	12D20L	2	23



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.7	1250	2.7	40.0	625	2.908	3	B97	09F38-	1	11
8.7	1250	2.7	40.0	625	2.908	3	B97	09F38L	1	11
11.0	938	3.0	53.0	469	2.607	4	B97	09F38-	1	11
11.0	938	3.0	53.0	469	2.607	4	B97	09F38L	1	11
14.0	750	3.2	67.0	375	2.526	5	B97	09F38-	1	11
14.0	750	3.2	67.0	375	2.526	5	B97	09F38L	1	11
20.0	536	3.2	65.0	268	2.460	7	B97	09F38-	1	11
20.0	536	3.2	65.0	268	2.460	7	B97	09F38L	1	11
21.0	469	5.2	120	234	3.436	8	B195	09F38-	1	19
21.0	469	5.2	120	234	3.436	8	B195	09F38L	1	19
21.0	417	4.4	157	208	4.318	9	B195	09F38-	2	21
21.0	417	4.4	157	208	4.318	9	B195	09F38L	2	22
23.0	469	2.1	50.0	234	2.444	8	B97	09F38-	1	11
23.0	469	2.1	50.0	234	2.444	8	B97	09F38L	1	11
26.0	417	2.1	97.0	208	2.745	9	B97	09F38-	2	12
26.0	417	2.1	97.0	208	2.745	9	B97	09F38L	2	12
26.0	313	5.6	195	156	4.233	12	B195	09F38-	2	21
26.0	313	5.6	195	156	4.233	12	B195	09F38L	2	22
28.0	375	3.3	95.0	188	3.361	10	B195	09F38-	1	19
28.0	375	3.3	95.0	188	3.361	10	B195	09F38L	1	19
29.0	375	1.3	38.0	188	2.425	10	B97	09F38-	1	11
29.0	375	1.3	38.0	188	2.425	10	B97	09F38L	1	11
34.0	313	2.5	90.0	156	2.720	12	B97	09F38-	2	12
34.0	313	2.5	90.0	156	2.720	12	B97	09F38L	2	12
37.0	250	4.0	172	125	4.202	15	B195	09F38-	2	21
37.0	250	4.0	172	125	4.202	15	B195	09F38L	2	22
39.0	234	4.2	195	117	3.701	16	B195	09F38-	2	21
39.0	234	4.2	195	117	3.701	16	B195	09F38L	2	22
43.0	250	1.9	82.0	125	2.711	15	B97	09F38-	2	12
43.0	250	1.9	82.0	125	2.711	15	B97	09F38L	2	12
46.0	234	2.0	90.0	117	2.502	16	B97	09F38-	2	12
46.0	234	2.0	90.0	117	2.502	16	B97	09F38L	2	12
52.0	188	3.4	195	94.0	3.523	20	B195	09F38-	2	21
52.0	188	3.4	195	94.0	3.523	20	B195	09F38L	2	22
57.0	188	1.6	90.0	94.0	2.460	20	B97	09F38-	2	12
57.0	188	1.6	90.0	94.0	2.460	20	B97	09F38L	2	12
70.0	150	2.4	172	75.0	3.512	25	B195	09F38-	2	21
70.0	150	2.4	172	75.0	3.512	25	B195	09F38L	2	22
71.0	150	1.2	82.0	75.0	2.456	25	B97	09F38-	2	12
71.0	150	1.2	82.0	75.0	2.456	25	B97	09F38L	2	12
89.0	117	1.0	90.0	59.0	2.418	32	B97	09F38-	2	12
89.0	117	1.0	90.0	59.0	2.418	32	B97	09F38L	2	12
90.0	117	2.2	195	59.0	3.364	32	B195	09F38-	2	21
90.0	117	2.2	195	59.0	3.364	32	B195	09F38L	2	22
112	93.8	1.5	172	47.0	3.360	40	B195	09F38-	2	21
112	93.8	1.5	172	47.0	3.360	40	B195	09F38L	2	22

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
26.0	500	2.8	80.0	250	11.348	3	B195	14D15-	1	43
34.0	375	3.0	105	188	10.592	4	B195	14D15-	1	43
42.0	300	3.0	130	150	10.309	5	B195	14D15-	1	43
61.0	214	2.2	135	107	10.089	7	B195	14D15-	1	43
69.0	188	1.7	120	94.0	10.036	8	B195	14D15-	1	43
78.0	167	2.0	157	83.0	10.918	9	B195	14D15-	2	45
86.0	150	1.1	95.0	75.0	9.961	10	B195	14D15-	1	43
104	125	1.9	195	63.0	10.833	12	B195	14D15-	2	45
128	100	1.3	172	50.0	10.802	15	B195	14D15-	2	45
137	93.8	1.4	195	47.0	10.301	16	B195	14D15-	2	45
171	75.0	1.1	195	38.0	10.123	20	B195	14D15-	2	45



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.6	2000	3.0	40.0	1000	2.908	3	B97	09F60-	1	11
6.6	2000	3.0	40.0	1000	2.908	3	B97	09F60L	1	11
8.7	1500	3.3	53.0	750	2.607	4	B97	09F60-	1	11
8.7	1500	3.3	53.0	750	2.607	4	B97	09F60L	1	11
11.0	1200	3.5	67.0	600	2.526	5	B97	09F60-	1	11
11.0	1200	3.5	67.0	600	2.526	5	B97	09F60L	1	11
15.0	857	3.8	65.0	429	2.460	7	B97	09F60-	1	11
15.0	857	3.8	65.0	429	2.460	7	B97	09F60L	1	11
16.0	667	5.0	157	333	4.318	9	B195	09F60-	2	21
16.0	667	5.0	157	333	4.318	9	B195	09F60L	2	22
18.0	750	2.8	50.0	375	2.444	8	B97	09F60-	1	11
18.0	750	2.8	50.0	375	2.444	8	B97	09F60L	1	11
20.0	667	2.3	97.0	333	2.745	9	B97	09F60-	2	12
20.0	667	2.3	97.0	333	2.745	9	B97	09F60L	2	12
21.0	600	4.2	95.0	300	3.361	10	B195	09F60-	1	19
21.0	600	4.2	95.0	300	3.361	10	B195	09F60L	1	19
22.0	600	1.7	38.0	300	2.425	10	B97	09F60-	1	11
22.0	600	1.7	38.0	300	2.425	10	B97	09F60L	1	11
25.0	500	2.8	90.0	250	2.720	12	B97	09F60-	2	12
25.0	500	2.8	90.0	250	2.720	12	B97	09F60L	2	12
26.0	400	5.1	172	200	4.202	15	B195	09F60-	2	21
26.0	400	5.1	172	200	4.202	15	B195	09F60L	2	22
27.0	375	5.4	195	188	3.701	16	B195	09F60-	2	21
27.0	375	5.4	195	188	3.701	16	B195	09F60L	2	22
33.0	400	2.4	82.0	200	2.711	15	B97	09F60-	2	12
33.0	400	2.4	82.0	200	2.711	15	B97	09F60L	2	12
35.0	375	2.3	90.0	188	2.502	16	B97	09F60-	2	12
35.0	375	2.3	90.0	188	2.502	16	B97	09F60L	2	12
37.0	300	4.4	195	150	3.523	20	B195	09F60-	2	21
37.0	300	4.4	195	150	3.523	20	B195	09F60L	2	22
44.0	300	2.0	90.0	150	2.460	20	B97	09F60-	2	12
44.0	300	2.0	90.0	150	2.460	20	B97	09F60L	2	12
52.0	240	3.2	172	120	3.512	25	B195	09F60-	2	21
52.0	240	3.2	172	120	3.512	25	B195	09F60L	2	22
55.0	240	1.5	82.0	120	2.456	25	B97	09F60-	2	12
55.0	240	1.5	82.0	120	2.456	25	B97	09F60L	2	12
68.0	188	2.8	195	94.0	3.364	32	B195	09F60-	2	21
68.0	188	2.8	195	94.0	3.364	32	B195	09F60L	2	22
69.0	188	1.3	90.0	94.0	2.418	32	B97	09F60-	2	12
69.0	188	1.3	90.0	94.0	2.418	32	B97	09F60L	2	12
86.0	150	2.0	172	75.0	3.360	40	B195	09F60-	2	21
86.0	150	2.0	172	75.0	3.360	40	B195	09F60L	2	22

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
9.7	1350	4.8	80.0	675	5.148	3	B195	09H41-	1	20
9.7	1350	4.8	80.0	675	5.148	3	B195	09H41L	1	20
11.0	1350	2.1	40.0	675	3.308	3	B97	09H41-	1	12
11.0	1350	2.1	40.0	675	3.308	3	B97	09H41L	1	12
13.0	1013	5.3	105	506	4.392	4	B195	09H41-	1	20
13.0	1013	5.3	105	506	4.392	4	B195	09H41L	1	20
14.0	1013	2.4	53.0	506	3.007	4	B97	09H41-	1	12
14.0	1013	2.4	53.0	506	3.007	4	B97	09H41L	1	12
15.0	810	5.7	130	405	4.109	5	B195	09H41-	1	20
15.0	810	5.7	130	405	4.109	5	B195	09H41L	1	20
18.0	810	2.5	67.0	405	2.926	5	B97	09H41-	1	12
18.0	810	2.5	67.0	405	2.926	5	B97	09H41L	1	12
22.0	579	5.3	135	289	3.889	7	B195	09H41-	1	20
22.0	579	5.3	135	289	3.889	7	B195	09H41L	1	20
25.0	579	2.6	65.0	289	2.860	7	B97	09H41-	1	12
25.0	579	2.6	65.0	289	2.860	7	B97	09H41L	1	12
27.0	506	4.2	120	253	3.836	8	B195	09H41-	1	20
27.0	506	4.2	120	253	3.836	8	B195	09H41L	1	20
28.0	500	2.5	80.0	250	10.548	3	B195	12H15-	1	24
28.0	500	2.5	80.0	250	10.548	3	B195	12H15L	1	24
28.0	450	3.5	157	225	4.718	9	B195	09H41-	2	22
28.0	450	3.5	157	225	4.718	9	B195	09H41L	2	22
29.0	506	1.8	50.0	253	2.844	8	B97	09H41-	1	12
29.0	506	1.8	50.0	253	2.844	8	B97	09H41L	1	12
32.0	450	1.7	97.0	225	3.145	9	B97	09H41-	2	13
32.0	450	1.7	97.0	225	3.145	9	B97	09H41L	2	13
35.0	405	1.1	38.0	203	2.825	10	B97	09H41-	1	12
35.0	405	1.1	38.0	203	2.825	10	B97	09H41L	1	12
35.0	405	2.7	95.0	203	3.761	10	B195	09H41-	1	20
35.0	405	2.7	95.0	203	3.761	10	B195	09H41L	1	20
35.0	338	4.6	195	169	4.633	12	B195	09H41-	2	22
35.0	338	4.6	195	169	4.633	12	B195	09H41L	2	22
37.0	375	2.8	105	188	9.792	4	B195	12H15-	1	24
37.0	375	2.8	105	188	9.792	4	B195	12H15L	1	24
42.0	338	2.0	90.0	169	3.120	12	B97	09H41-	2	13
42.0	338	2.0	90.0	169	3.120	12	B97	09H41L	2	13
47.0	300	2.7	130	150	9.509	5	B195	12H15-	1	24
47.0	300	2.7	130	150	9.509	5	B195	12H15L	1	24
49.0	270	3.2	172	135	4.602	15	B195	09H41-	2	22
49.0	270	3.2	172	135	4.602	15	B195	09H41L	2	22
51.0	253	3.5	195	127	4.101	16	B195	09H41-	2	22
51.0	253	3.5	195	127	4.101	16	B195	09H41L	2	22
53.0	270	1.6	82.0	135	3.111	15	B97	09H41-	2	13
53.0	270	1.6	82.0	135	3.111	15	B97	09H41L	2	13
57.0	253	1.6	90.0	127	2.902	16	B97	09H41-	2	13
57.0	253	1.6	90.0	127	2.902	16	B97	09H41L	2	13
67.0	214	2.0	135	107	9.289	7	B195	12H15-	1	24
67.0	214	2.0	135	107	9.289	7	B195	12H15L	1	24
67.0	203	2.8	195	101	3.923	20	B195	09H41-	2	22
67.0	203	2.8	195	101	3.923	20	B195	09H41L	2	22
70.0	203	1.3	90.0	101	2.860	20	B97	09H41-	2	13



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
70.0	203	1.3	90.0	101	2.860	20	B97	09H41L	2	13
75.0	188	1.6	120	94.0	9.236	8	B195	12H15-	1	24
75.0	188	1.6	120	94.0	9.236	8	B195	12H15L	1	24
85.0	167	1.8	157	83.0	10.118	9	B195	12H15-	2	26
85.0	167	1.8	157	83.0	10.118	9	B195	12H15L	2	26
86.0	162	2.0	172	81.0	3.912	25	B195	09H41-	2	22
86.0	162	2.0	172	81.0	3.912	25	B195	09H41L	2	22
94.0	150	1.0	95.0	75.0	9.161	10	B195	12H15-	1	24
94.0	150	1.0	95.0	75.0	9.161	10	B195	12H15L	1	24
111	127	1.8	195	63.0	3.764	32	B195	09H41-	2	22
111	127	1.8	195	63.0	3.764	32	B195	09H41L	2	22
113	125	1.7	195	63.0	10.033	12	B195	12H15-	2	26
113	125	1.7	195	63.0	10.033	12	B195	12H15L	2	26
137	101	1.3	172	51.0	3.760	40	B195	09H41-	2	22
137	101	1.3	172	51.0	3.760	40	B195	09H41L	2	22
140	100	1.2	172	50.0	10.002	15	B195	12H15-	2	26
140	100	1.2	172	50.0	10.002	15	B195	12H15L	2	26
149	93.8	1.3	195	47.0	9.501	16	B195	12H15-	2	26
149	93.8	1.3	195	47.0	9.501	16	B195	12H15L	2	26
186	75.0	1.1	195	38.0	9.323	20	B195	12H15-	2	26
186	75.0	1.1	195	38.0	9.323	20	B195	12H15L	2	26

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1350	4.3	80.0	675	7.248	3	B195	12D41-	1	21
11.0	1350	4.3	80.0	675	7.248	3	B195	12D41L	1	21
12.0	1350	1.9	40.0	675	5.408	3	B97	12D41-	1	12
12.0	1350	1.9	40.0	675	5.408	3	B97	12D41L	1	12
15.0	1013	4.7	105	506	6.492	4	B195	12D41-	1	21
15.0	1013	4.7	105	506	6.492	4	B195	12D41L	1	21
16.0	1013	2.1	53.0	506	5.107	4	B97	12D41-	1	12
16.0	1013	2.1	53.0	506	5.107	4	B97	12D41L	1	12
18.0	810	5.0	130	405	6.209	5	B195	12D41-	1	21
18.0	810	5.0	130	405	6.209	5	B195	12D41L	1	21
20.0	810	2.2	67.0	405	5.026	5	B97	12D41-	1	12
20.0	810	2.2	67.0	405	5.026	5	B97	12D41L	1	12
26.0	579	4.7	135	289	5.989	7	B195	12D41-	1	21
26.0	579	4.7	135	289	5.989	7	B195	12D41L	1	21
29.0	579	2.3	65.0	289	4.960	7	B97	12D41-	1	12
29.0	579	2.3	65.0	289	4.960	7	B97	12D41L	1	12
31.0	506	3.7	120	253	5.936	8	B195	12D41-	1	21
31.0	506	3.7	120	253	5.936	8	B195	12D41L	1	21
32.0	506	1.6	50.0	253	4.944	8	B97	12D41-	1	12
32.0	506	1.6	50.0	253	4.944	8	B97	12D41L	1	12
33.0	450	3.1	157	225	6.818	9	B195	12D41-	2	23
33.0	450	3.1	157	225	6.818	9	B195	12D41L	2	23
36.0	450	1.5	97.0	225	5.245	9	B97	12D41-	2	13
36.0	450	1.5	97.0	225	5.245	9	B97	12D41L	2	13
40.0	405	2.4	95.0	203	5.861	10	B195	12D41-	1	21
40.0	405	2.4	95.0	203	5.861	10	B195	12D41L	1	21
41.0	338	4.0	195	169	6.733	12	B195	12D41-	2	23
41.0	338	4.0	195	169	6.733	12	B195	12D41L	2	23
48.0	338	1.8	90.0	169	5.220	12	B97	12D41-	2	13
48.0	338	1.8	90.0	169	5.220	12	B97	12D41L	2	13
57.0	270	2.9	172	135	6.702	15	B195	12D41-	2	23
57.0	270	2.9	172	135	6.702	15	B195	12D41L	2	23
60.0	270	1.4	82.0	135	5.211	15	B97	12D41-	2	13
60.0	270	1.4	82.0	135	5.211	15	B97	12D41L	2	13
60.0	253	3.1	195	127	6.201	16	B195	12D41-	2	23
60.0	253	3.1	195	127	6.201	16	B195	12D41L	2	23
64.0	253	1.4	90.0	127	5.002	16	B97	12D41-	2	13
64.0	253	1.4	90.0	127	5.002	16	B97	12D41L	2	13
78.0	203	2.4	195	101	6.023	20	B195	12D41-	2	23
78.0	203	2.4	195	101	6.023	20	B195	12D41L	2	23
79.0	203	1.1	90.0	101	4.960	20	B97	12D41-	2	13
79.0	203	1.1	90.0	101	4.960	20	B97	12D41L	2	13
98.0	162	1.8	172	81.0	6.012	25	B195	12D41-	2	23
98.0	162	1.8	172	81.0	6.012	25	B195	12D41L	2	23
125	127	1.6	195	63.0	5.864	32	B195	12D41-	2	23
125	127	1.6	195	63.0	5.864	32	B195	12D41L	2	23
155	101	1.1	172	51.0	5.860	40	B195	12D41-	2	23
155	101	1.1	172	51.0	5.860	40	B195	12D41L	2	23



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
7.4	2000	5.3	80.0	1000	5.148	3	B195	09H60-	1	20
7.4	2000	5.3	80.0	1000	5.148	3	B195	09H60L	1	20
8.5	2000	2.4	40.0	1000	3.308	3	B97	09H60-	1	12
8.5	2000	2.4	40.0	1000	3.308	3	B97	09H60L	1	12
9.2	1700	4.7	80.0	850	6.048	3	B195	09L51-	1	22
9.7	1500	5.9	105	750	4.392	4	B195	09H60-	1	20
9.7	1500	5.9	105	750	4.392	4	B195	09H60L	1	20
11.0	1500	2.6	53.0	750	3.007	4	B97	09H60-	1	12
11.0	1500	2.6	53.0	750	3.007	4	B97	09H60L	1	12
12.0	1350	4.1	80.0	675	6.048	3	B195	09L41-	1	22
12.0	1350	4.1	80.0	675	6.048	3	B195	09L41L	1	22
12.0	1275	5.2	105	638	5.292	4	B195	09L51-	1	22
14.0	1200	2.8	67.0	600	2.926	5	B97	09H60-	1	12
14.0	1200	2.8	67.0	600	2.926	5	B97	09H60L	1	12
15.0	1020	5.6	130	510	5.009	5	B195	09L51-	1	22
16.0	1013	4.5	105	506	5.292	4	B195	09L41-	1	22
16.0	1013	4.5	105	506	5.292	4	B195	09L41L	1	22
19.0	857	3.1	65.0	429	2.860	7	B97	09H60-	1	12
19.0	857	3.1	65.0	429	2.860	7	B97	09H60L	1	12
19.0	810	4.8	130	405	5.009	5	B195	09L41-	1	22
19.0	810	4.8	130	405	5.009	5	B195	09L41L	1	22
20.0	750	5.3	120	375	3.836	8	B195	09H60-	1	20
20.0	750	5.3	120	375	3.836	8	B195	09H60L	1	20
21.0	729	5.6	135	364	4.789	7	B195	09L51-	1	22
22.0	667	4.0	157	333	4.718	9	B195	09H60-	2	22
22.0	667	4.0	157	333	4.718	9	B195	09H60L	2	22
23.0	750	2.2	50.0	375	2.844	8	B97	09H60-	1	12
23.0	750	2.2	50.0	375	2.844	8	B97	09H60L	1	12
25.0	667	1.9	97.0	333	3.145	9	B97	09H60-	2	13
25.0	667	1.9	97.0	333	3.145	9	B97	09H60L	2	13
25.0	638	4.4	120	319	4.736	8	B195	09L51-	1	22
26.0	500	5.2	195	250	4.633	12	B195	09H60-	2	22
26.0	500	5.2	195	250	4.633	12	B195	09H60L	2	22
27.0	600	3.4	95.0	300	3.761	10	B195	09H60-	1	20
27.0	600	3.4	95.0	300	3.761	10	B195	09H60L	1	20
27.0	579	4.5	135	289	4.789	7	B195	09L41-	1	22
27.0	579	4.5	135	289	4.789	7	B195	09L41L	1	22
27.0	567	3.5	157	283	5.618	9	B195	09L51-	2	24
28.0	600	1.4	38.0	300	2.825	10	B97	09H60-	1	12
28.0	600	1.4	38.0	300	2.825	10	B97	09H60L	1	12
32.0	506	3.6	120	253	4.736	8	B195	09L41-	1	22
32.0	506	3.6	120	253	4.736	8	B195	09L41L	1	22
33.0	510	2.8	95.0	255	4.661	10	B195	09L51-	1	22
33.0	500	2.3	90.0	250	3.120	12	B97	09H60-	2	13
33.0	500	2.3	90.0	250	3.120	12	B97	09H60L	2	13
33.0	425	4.5	195	213	5.533	12	B195	09L51-	2	24
35.0	450	3.0	157	225	5.618	9	B195	09L41-	2	24
35.0	450	3.0	157	225	5.618	9	B195	09L41L	2	24
36.0	400	4.1	172	200	4.602	15	B195	09H60-	2	22
36.0	400	4.1	172	200	4.602	15	B195	09H60L	2	22
37.0	375	4.3	195	188	4.101	16	B195	09H60-	2	22

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
37.0	375	4.3	195	188	4.101	16	B195	09H60L	2	22
42.0	405	2.3	95.0	203	4.661	10	B195	09L41-	1	22
42.0	405	2.3	95.0	203	4.661	10	B195	09L41L	1	22
42.0	400	1.9	82.0	200	3.111	15	B97	09H60-	2	13
42.0	400	1.9	82.0	200	3.111	15	B97	09H60L	2	13
44.0	338	3.8	195	169	5.533	12	B195	09L41-	2	24
44.0	338	3.8	195	169	5.533	12	B195	09L41L	2	24
45.0	375	1.9	90.0	188	2.902	16	B97	09H60-	2	13
45.0	375	1.9	90.0	188	2.902	16	B97	09H60L	2	13
45.0	340	3.4	172	170	5.502	15	B195	09L51-	2	24
48.0	319	3.6	195	159	5.001	16	B195	09L51-	2	24
50.0	300	3.5	195	150	3.923	20	B195	09H60-	2	22
50.0	300	3.5	195	150	3.923	20	B195	09H60L	2	22
55.0	300	1.6	90.0	150	2.860	20	B97	09H60-	2	13
55.0	300	1.6	90.0	150	2.860	20	B97	09H60L	2	13
60.0	270	2.7	172	135	5.502	15	B195	09L41-	2	24
60.0	270	2.7	172	135	5.502	15	B195	09L41L	2	24
63.0	255	2.9	195	128	4.823	20	B195	09L51-	2	24
63.0	253	2.9	195	127	5.001	16	B195	09L41-	2	24
63.0	253	2.9	195	127	5.001	16	B195	09L41L	2	24
68.0	240	1.2	82.0	120	2.856	25	B97	09H60-	2	13
68.0	240	1.2	82.0	120	2.856	25	B97	09H60L	2	13
68.0	240	2.5	172	120	3.912	25	B195	09H60-	2	22
68.0	240	2.5	172	120	3.912	25	B195	09H60L	2	22
82.0	204	2.1	172	102	4.812	25	B195	09L51-	2	24
83.0	203	2.3	195	101	4.823	20	B195	09L41-	2	24
83.0	203	2.3	195	101	4.823	20	B195	09L41L	2	24
86.0	188	1.0	90.0	94.0	2.818	32	B97	09H60-	2	13
86.0	188	1.0	90.0	94.0	2.818	32	B97	09H60L	2	13
87.0	188	2.2	195	94.0	3.764	32	B195	09H60-	2	22
87.0	188	2.2	195	94.0	3.764	32	B195	09H60L	2	22
102	162	1.7	172	81.0	4.812	25	B195	09L41-	2	24
102	162	1.7	172	81.0	4.812	25	B195	09L41L	2	24
105	159	1.9	195	80.0	4.664	32	B195	09L51-	2	24
108	150	1.6	172	75.0	3.760	40	B195	09H60-	2	22
108	150	1.6	172	75.0	3.760	40	B195	09H60L	2	22
130	128	1.3	172	64.0	4.660	40	B195	09L51-	2	24
131	127	1.5	195	63.0	4.664	32	B195	09L41-	2	24
131	127	1.5	195	63.0	4.664	32	B195	09L41L	2	24
162	101	1.1	172	51.0	4.660	40	B195	09L41-	2	24
162	101	1.1	172	51.0	4.660	40	B195	09L41L	2	24



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
23.0	1000	2.5	80.0	500	10.548	3	B195	12H30L	1	24
30.0	750	2.8	105	375	9.792	4	B195	12H30L	1	24
37.0	600	3.0	130	300	9.509	5	B195	12H30L	1	24
53.0	429	2.5	135	214	9.289	7	B195	12H30L	1	24
60.0	375	2.0	120	188	9.236	8	B195	12H30L	1	24
68.0	333	1.8	157	167	10.118	9	B195	12H30L	2	26
75.0	300	1.3	95.0	150	9.161	10	B195	12H30L	1	24
89.0	250	2.2	195	125	10.033	12	B195	12H30L	2	26
112	200	1.5	172	100	10.002	15	B195	12H30L	2	26
119	188	1.6	195	94.0	9.501	16	B195	12H30L	2	26
149	150	1.3	195	75.0	9.323	20	B195	12H30L	2	26

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
21.0	1200	2.5	80.0	600	11.348	3	B195	14D36-	1	43
21.0	1175	2.6	80.0	588	10.548	3	B195	12H35-	1	24
28.0	900	2.8	105	450	10.592	4	B195	14D36-	1	43
28.0	881	2.8	105	441	9.792	4	B195	12H35-	1	24
34.0	720	3.0	130	360	10.309	5	B195	14D36-	1	43
34.0	705	3.0	130	353	9.509	5	B195	12H35-	1	24
38.0	650	1.7	80.0	325	13.848	3	B195	12L20-	1	27
38.0	650	1.7	80.0	325	13.848	3	B195	12L20L	1	27
49.0	514	2.7	135	257	10.089	7	B195	14D36-	1	43
49.0	504	2.7	135	252	9.289	7	B195	12H35-	1	24
51.0	488	1.9	105	244	13.092	4	B195	12L20-	1	27
51.0	488	1.9	105	244	13.092	4	B195	12L20L	1	27
56.0	450	2.1	120	225	10.036	8	B195	14D36-	1	43
56.0	441	2.1	120	220	9.236	8	B195	12H35-	1	24
63.0	400	1.9	157	200	10.918	9	B195	14D36-	2	45
63.0	392	1.9	157	196	10.118	9	B195	12H35-	2	26
64.0	390	2.0	130	195	12.809	5	B195	12L20-	1	27
64.0	390	2.0	130	195	12.809	5	B195	12L20L	1	27
71.0	360	1.4	95.0	180	9.961	10	B195	14D36-	1	43
71.0	353	1.4	95.0	176	9.161	10	B195	12H35-	1	24
83.0	300	2.3	195	150	10.833	12	B195	14D36-	2	45
83.0	294	2.3	195	147	10.033	12	B195	12H35-	2	26
90.0	279	1.5	135	139	12.589	7	B195	12L20-	1	27
90.0	279	1.5	135	139	12.589	7	B195	12L20L	1	27
102	244	1.2	120	122	12.536	8	B195	12L20-	1	27
102	244	1.2	120	122	12.536	8	B195	12L20L	1	27
105	240	1.6	172	120	10.802	15	B195	14D36-	2	45
105	235	1.6	172	118	10.002	15	B195	12H35-	2	26
112	225	1.8	195	113	10.301	16	B195	14D36-	2	45
112	220	1.8	195	110	9.501	16	B195	12H35-	2	26
114	217	1.2	157	108	13.418	9	B195	12L20-	2	29
114	217	1.2	157	108	13.418	9	B195	12L20L	2	29
140	180	1.4	195	90.0	10.123	20	B195	14D36-	2	45
140	176	1.4	195	88.0	9.323	20	B195	12H35-	2	26
152	163	1.3	195	81.0	13.333	12	B195	12L20-	2	29
152	163	1.3	195	81.0	13.333	12	B195	12L20L	2	29
171	144	1.0	172	72.0	10.112	25	B195	14D36-	2	45
171	141	1.0	172	71.0	9.312	25	B195	12H35-	2	26



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
31.0	1350	1.7	80.0	675	13.848	3	B195	12L41-	1	27
42.0	1013	1.8	105	506	13.092	4	B195	12L41-	1	27
52.0	810	2.0	130	405	12.809	5	B195	12L41-	1	27
73.0	579	1.9	135	289	12.589	7	B195	12L41-	1	27
83.0	506	1.5	120	253	12.536	8	B195	12L41-	1	27
93.0	450	1.2	157	225	13.418	9	B195	12L41-	2	29
124	338	1.6	195	169	13.333	12	B195	12L41-	2	29
153	270	1.1	172	135	13.302	15	B195	12L41-	2	29
164	253	1.2	195	127	12.801	16	B195	12L41-	2	29

Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
19.0	550	3.5	80.0	275	7.248	3	B195	12D17-	1	23
25.0	413	3.9	105	206	6.492	4	B195	12D17-	1	23
31.0	330	3.9	130	165	6.209	5	B195	12D17-	1	23
45.0	236	2.9	135	118	5.989	7	B195	12D17-	1	23
53.0	206	2.3	120	103	5.936	8	B195	12D17-	1	23
57.0	183	2.5	157	92.0	6.818	9	B195	12D17-	2	25
66.0	165	1.4	95.0	83.0	5.861	10	B195	12D17-	1	23
76.0	138	2.5	195	69.0	6.733	12	B195	12D17-	2	25
98.0	110	1.8	172	55.0	6.702	15	B195	12D17-	2	25
104	103	1.9	195	52.0	6.201	16	B195	12D17-	2	25
130	82.5	1.5	195	41.0	6.023	20	B195	12D17-	2	25
159	66.0	1.1	172	33.0	6.012	25	B195	12D17-	2	25

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	450	2.2	80.0	225	10.548	3	B195	12H14-	1	26
45.0	338	2.3	105	169	9.792	4	B195	12H14-	1	26
57.0	270	2.3	130	135	9.509	5	B195	12H14-	1	26
80.0	193	1.7	135	96.0	9.289	7	B195	12H14-	1	26
90.0	169	1.3	120	84.0	9.236	8	B195	12H14-	1	26
102	150	1.6	157	75.0	10.118	9	B195	12H14-	2	28
135	113	1.4	195	56.0	10.033	12	B195	12H14-	2	28
167	90.0	1.0	172	45.0	10.002	15	B195	12H14-	2	28
179	84.4	1.1	195	42.0	9.501	16	B195	12H14-	2	28

2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1175	3.2	80.0	588	7.248	3	B195	12D35-	1	23
22.0	881	3.5	105	441	6.492	4	B195	12D35-	1	23
27.0	705	3.8	130	353	6.209	5	B195	12D35-	1	23
38.0	504	3.4	135	252	5.989	7	B195	12D35-	1	23
45.0	441	2.7	120	220	5.936	8	B195	12D35-	1	23
50.0	392	2.3	157	196	6.818	9	B195	12D35-	2	25
56.0	353	1.7	95.0	176	5.861	10	B195	12D35-	1	23
63.0	294	2.9	195	147	6.733	12	B195	12D35-	2	25
84.0	235	2.1	172	118	6.702	15	B195	12D35-	2	25
89.0	220	2.2	195	110	6.201	16	B195	12D35-	2	25
112	176	1.8	195	88.0	6.023	20	B195	12D35-	2	25
137	141	1.3	172	71.0	6.012	25	B195	12D35-	2	25
175	110	1.1	195	55.0	5.864	32	B195	12D35-	2	25



Technical data

Bevel gearbox g730-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g730-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	1125	1.9	80.0	563	10.548	3	B195	12H34-	1	26
40.0	844	2.0	105	422	9.792	4	B195	12H34-	1	26
50.0	675	2.2	130	338	9.509	5	B195	12H34-	1	26
70.0	482	1.9	135	241	9.289	7	B195	12H34-	1	26
79.0	422	1.5	120	211	9.236	8	B195	12H34-	1	26
89.0	375	1.4	157	188	10.118	9	B195	12H34-	2	28
118	281	1.7	195	141	10.033	12	B195	12H34-	2	28
146	225	1.2	172	113	10.002	15	B195	12H34-	2	28
156	211	1.3	195	105	9.501	16	B195	12H34-	2	28

Technical data

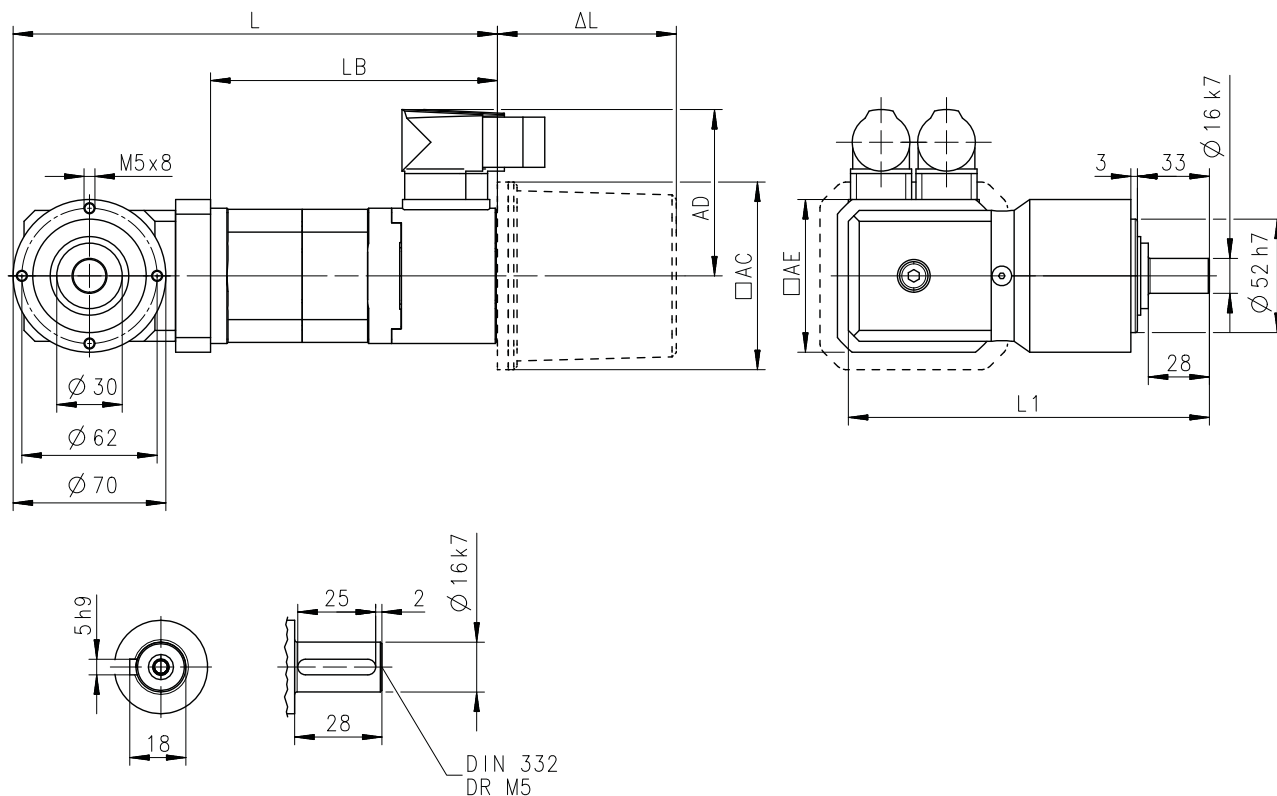
Bevel gearbox g730-B
Basic dimensions



Basic dimensions

g730-B33 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800816-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	152.5	152.5	152.5	152.5	152.5	152.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

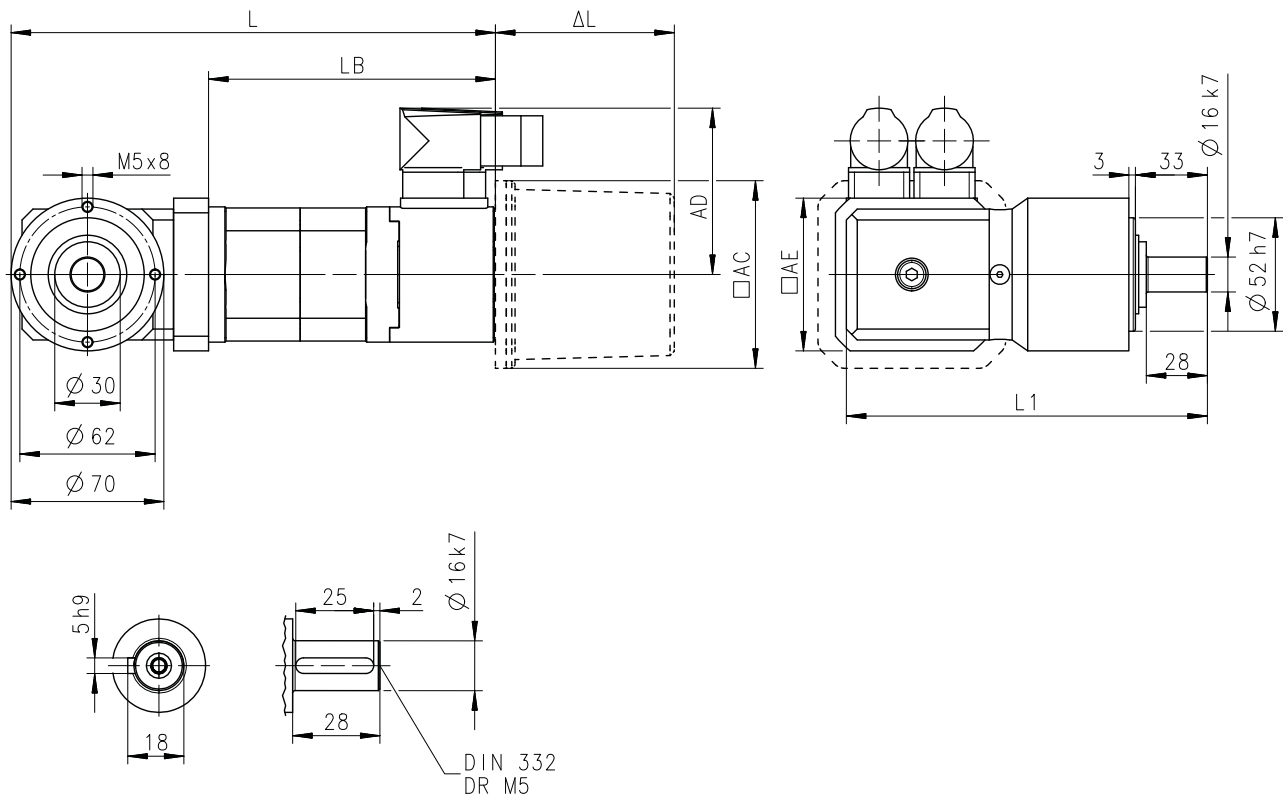


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B33 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800816-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	165.5	165.5	165.5	165.5	165.5	165.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

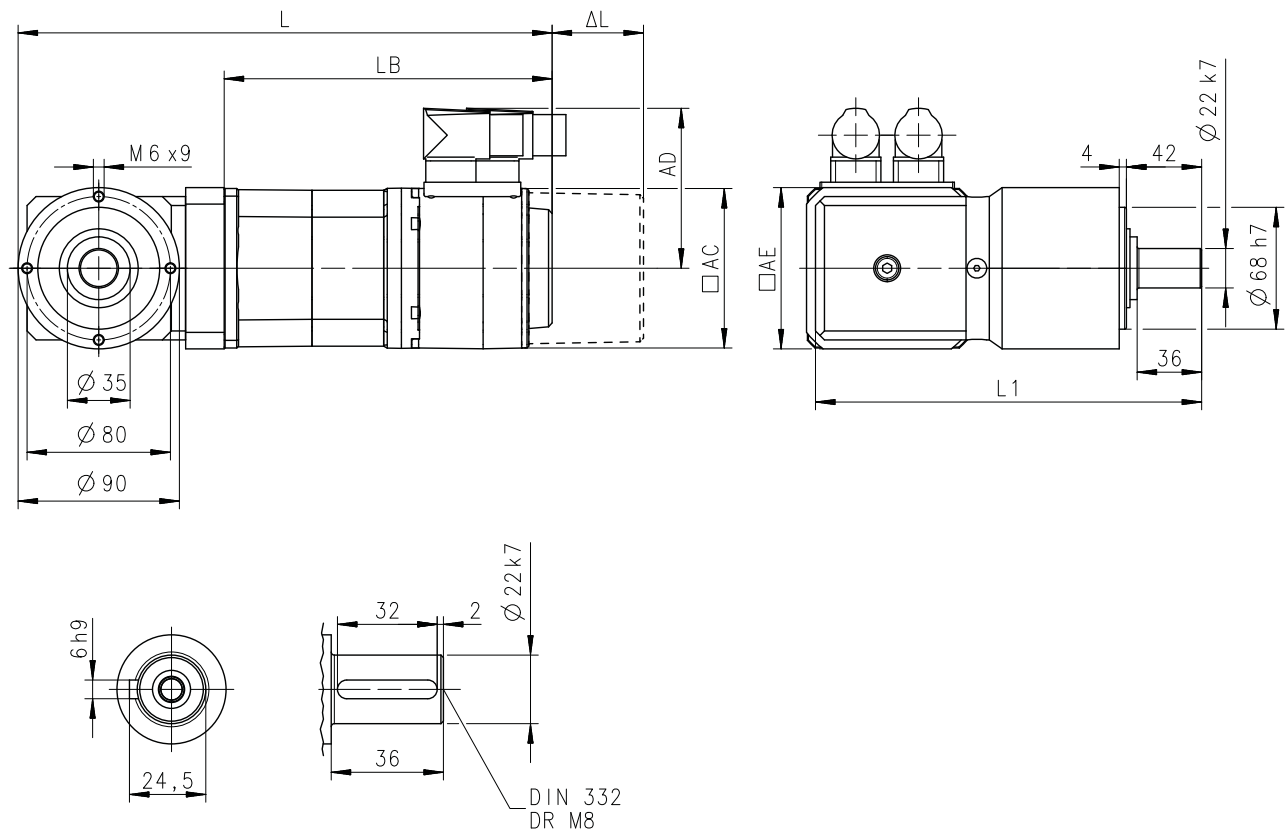
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B97 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800817-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	272	272	302	302
Gearbox length	L1	mm	197.5	197.5	197.5	197.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80

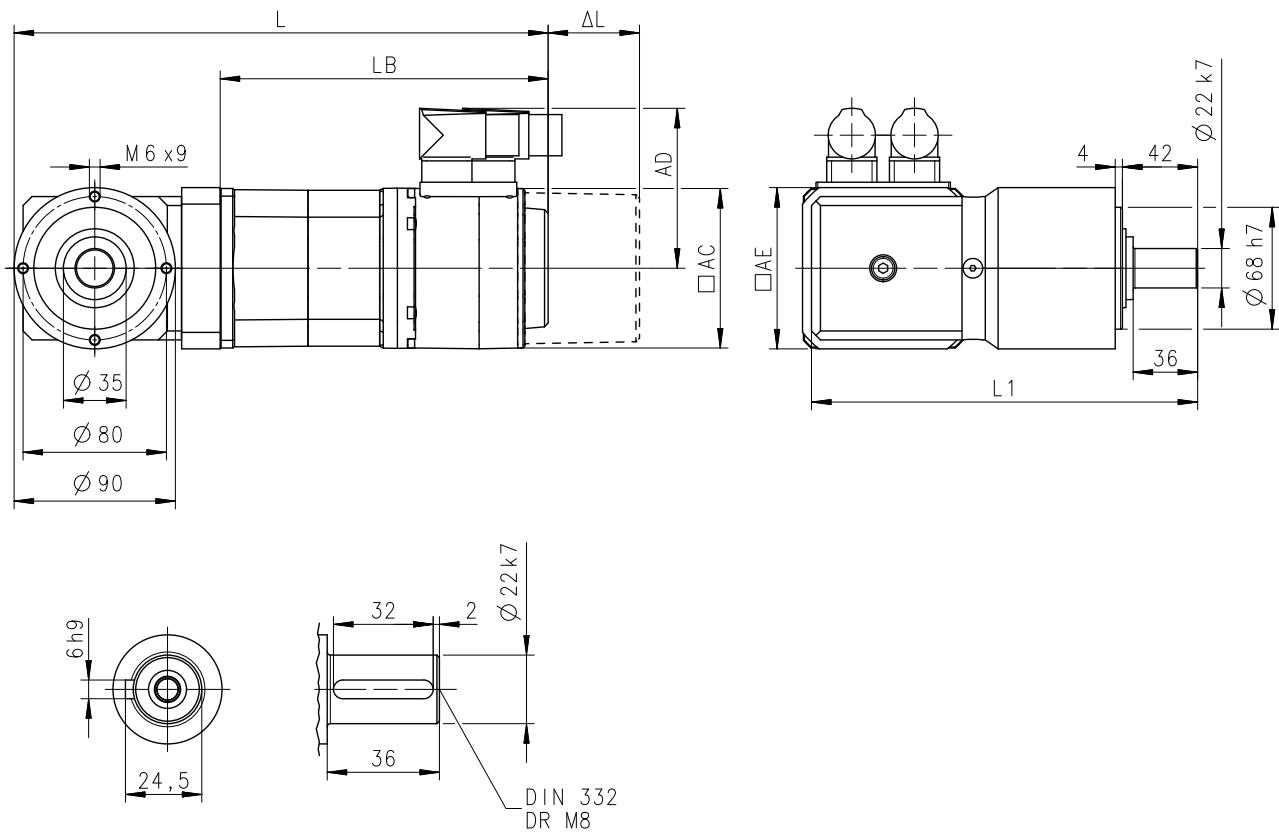


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B97 with MCS06

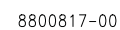
Gearbox design: Solid shaft, without foot with centering, 2-stage



8800817-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	242	242	272	272	302	302
Gearbox length	L1	mm	215.5	215.5	215.5	215.5	215.5	215.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80	80	80

Gearbox design: Solid shaft, without foot with centering, 1-stage

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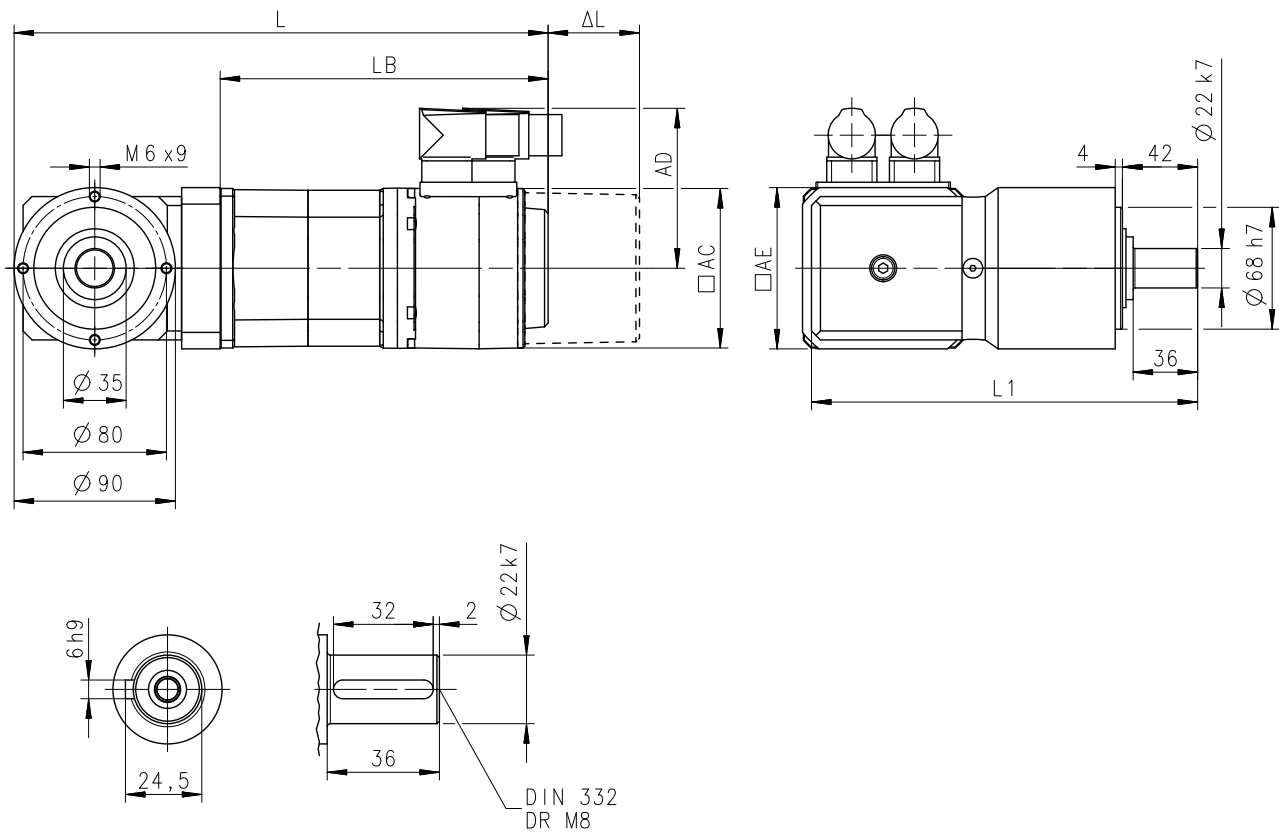


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B97 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800817-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	215.5	215.5	215.5	215.5	215.5	215.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

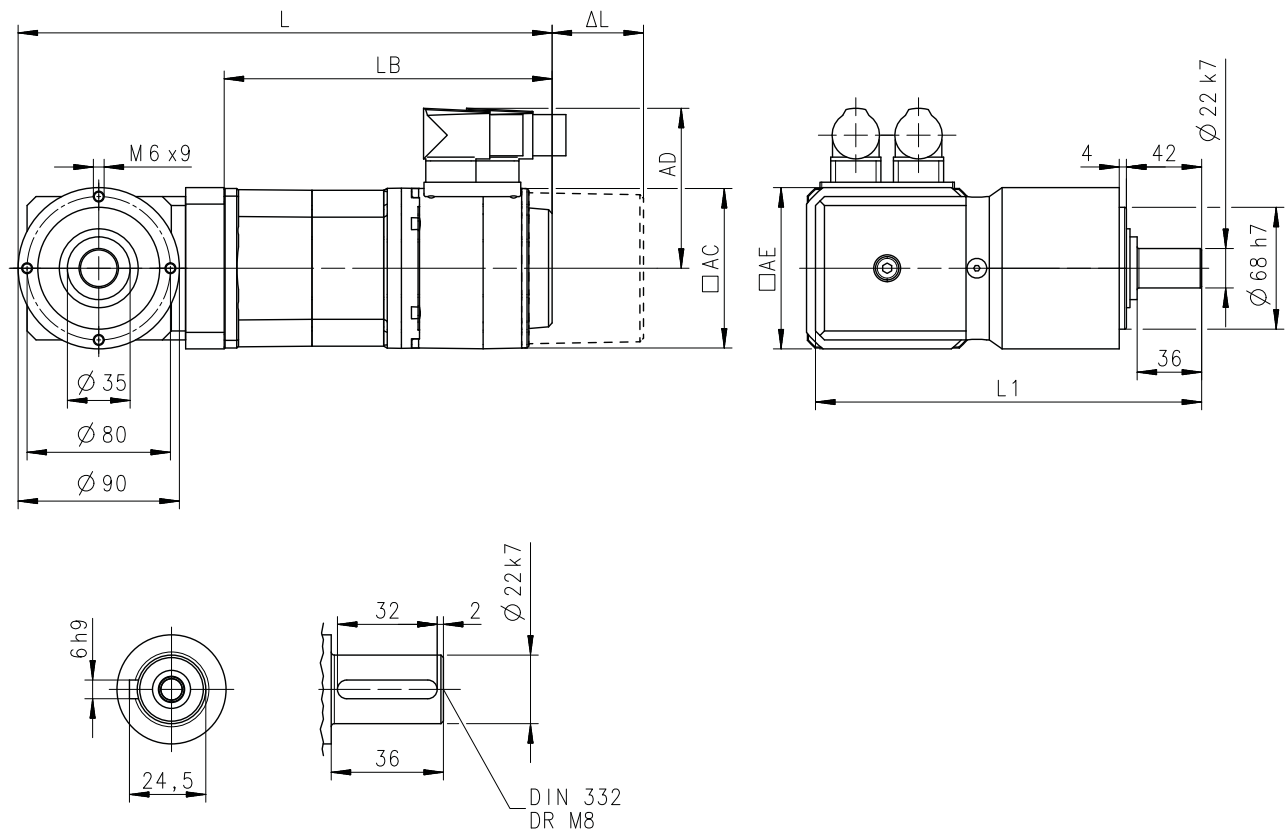
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B97 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



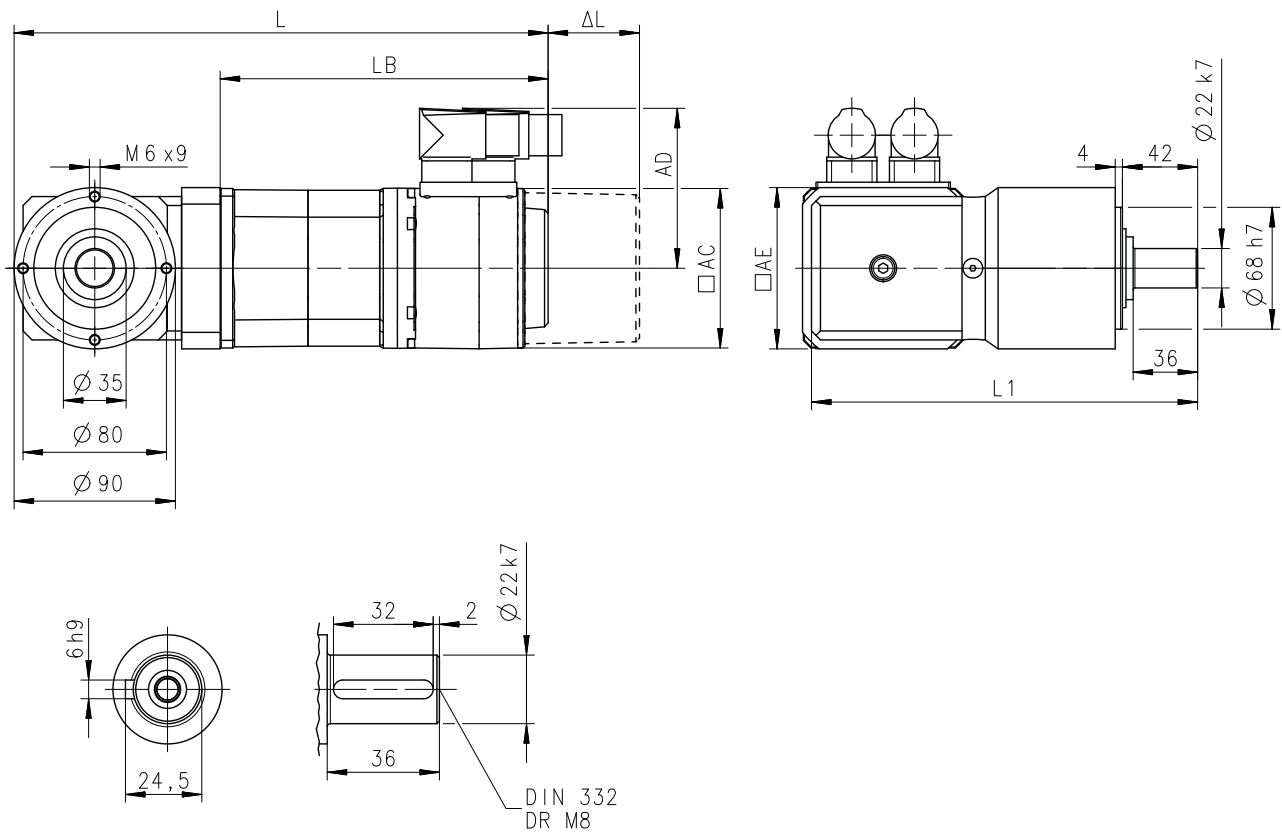
8800817-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	197.5	197.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g730-B97 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800817-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	215.5	215.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

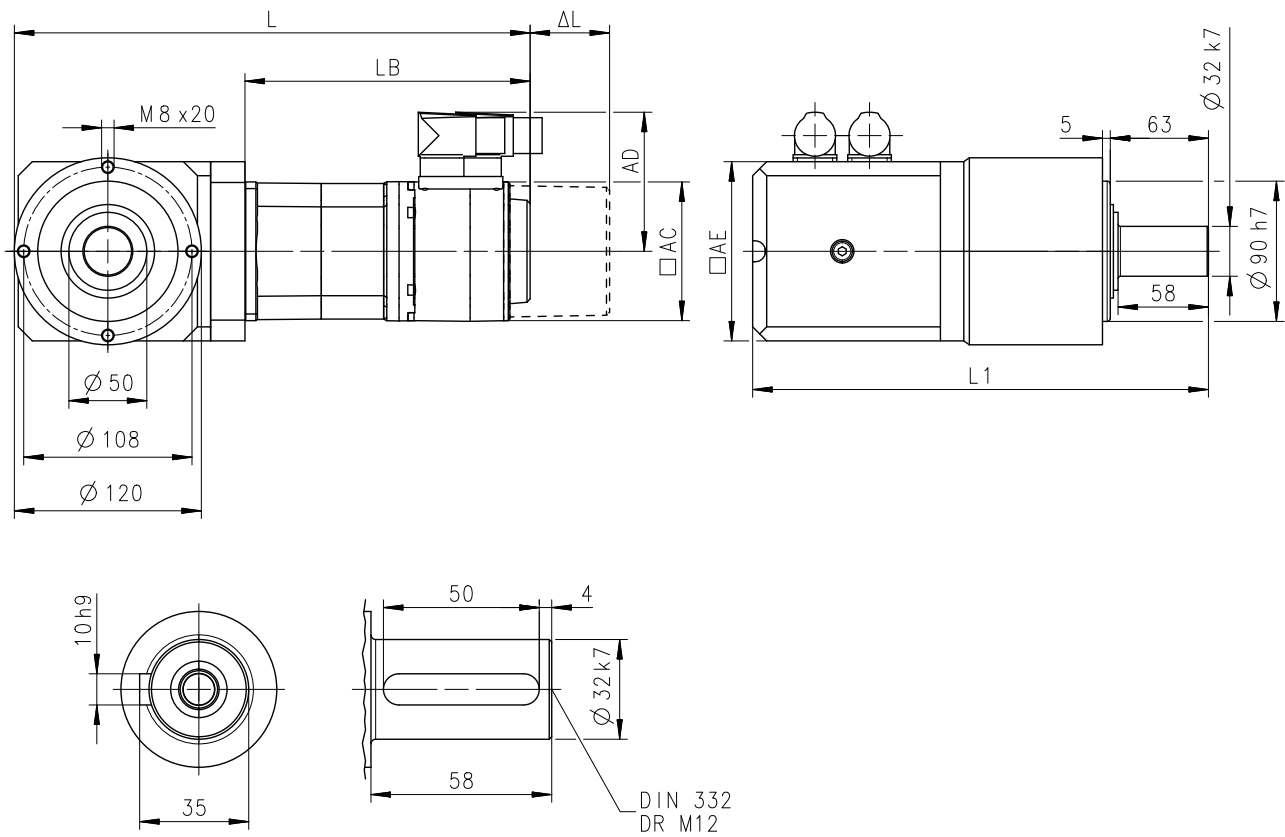
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B195 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800818-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	277.5	307.5	307.5	337.5	337.5
Gearbox length	L1	mm	292.5	292.5	292.5	292.5	292.5
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	115	115	115	115	115

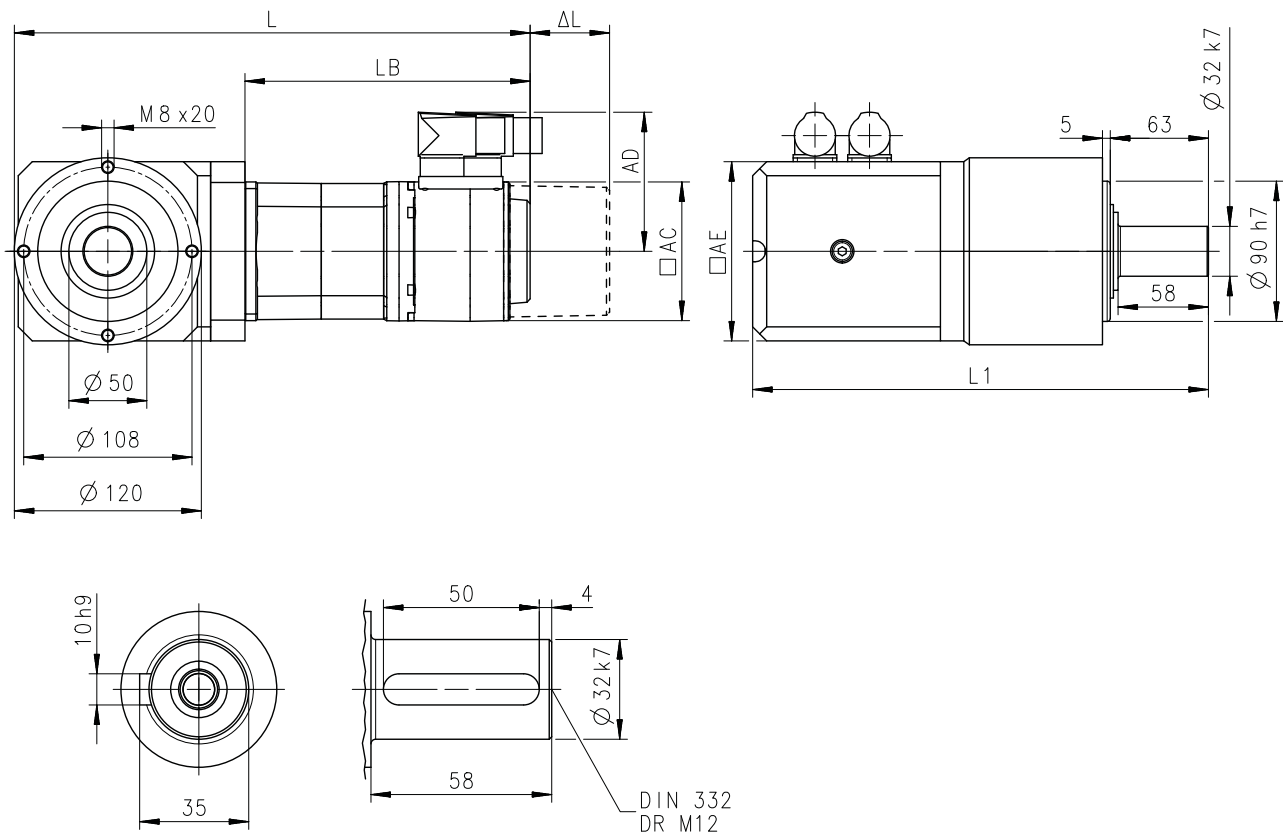


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B195 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800818-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	265	265	265	265	265	265	265	265
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

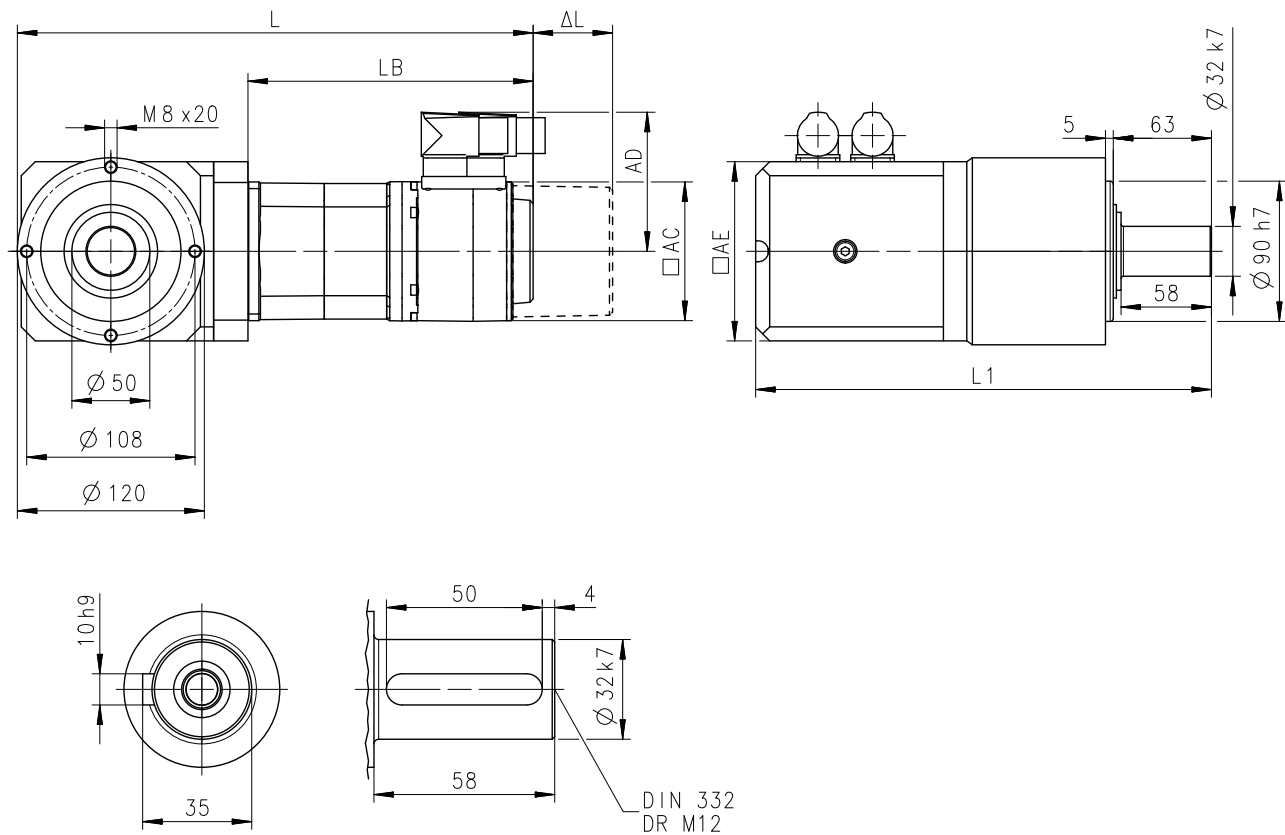
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B195 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800818-00

Motor			MCS 09							
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L	L41- L41L	L51-
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	292.5	292.5	292.5	292.5	292.5	292.5	292.5	292.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115

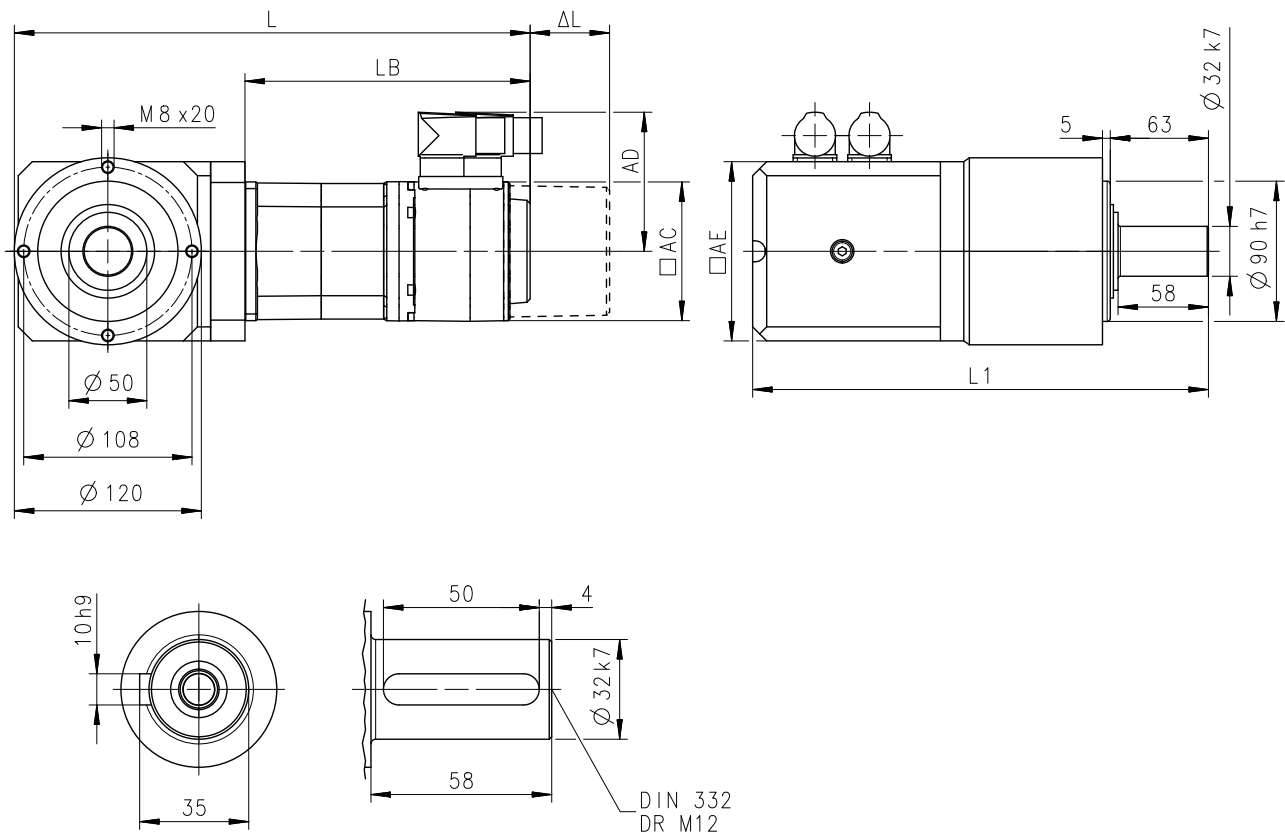


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B195 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800818-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	265	265	265	265	265	265	265	265	265	265	265
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

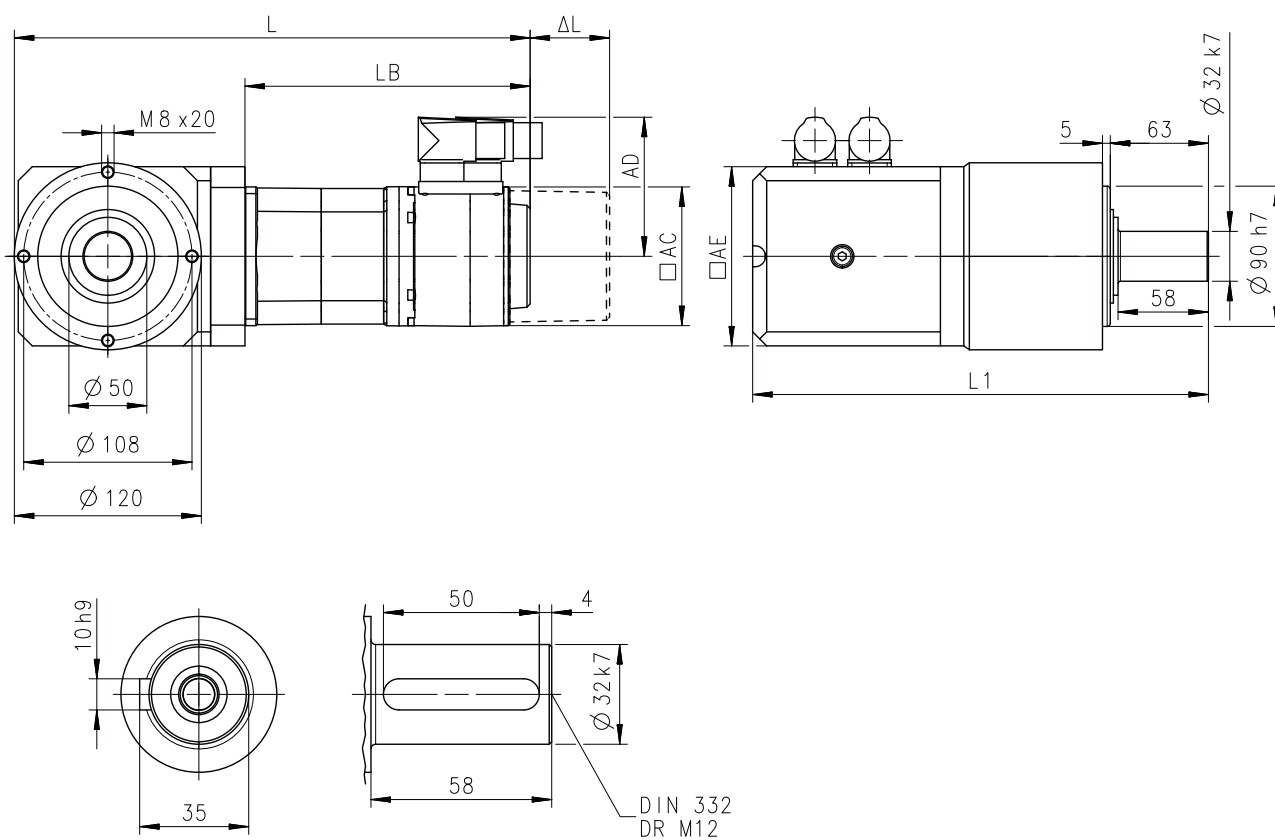
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B195 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800818-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	292.5	292.5	292.5	292.5	292.5	292.5	292.5	292.5	292.5	292.5	292.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

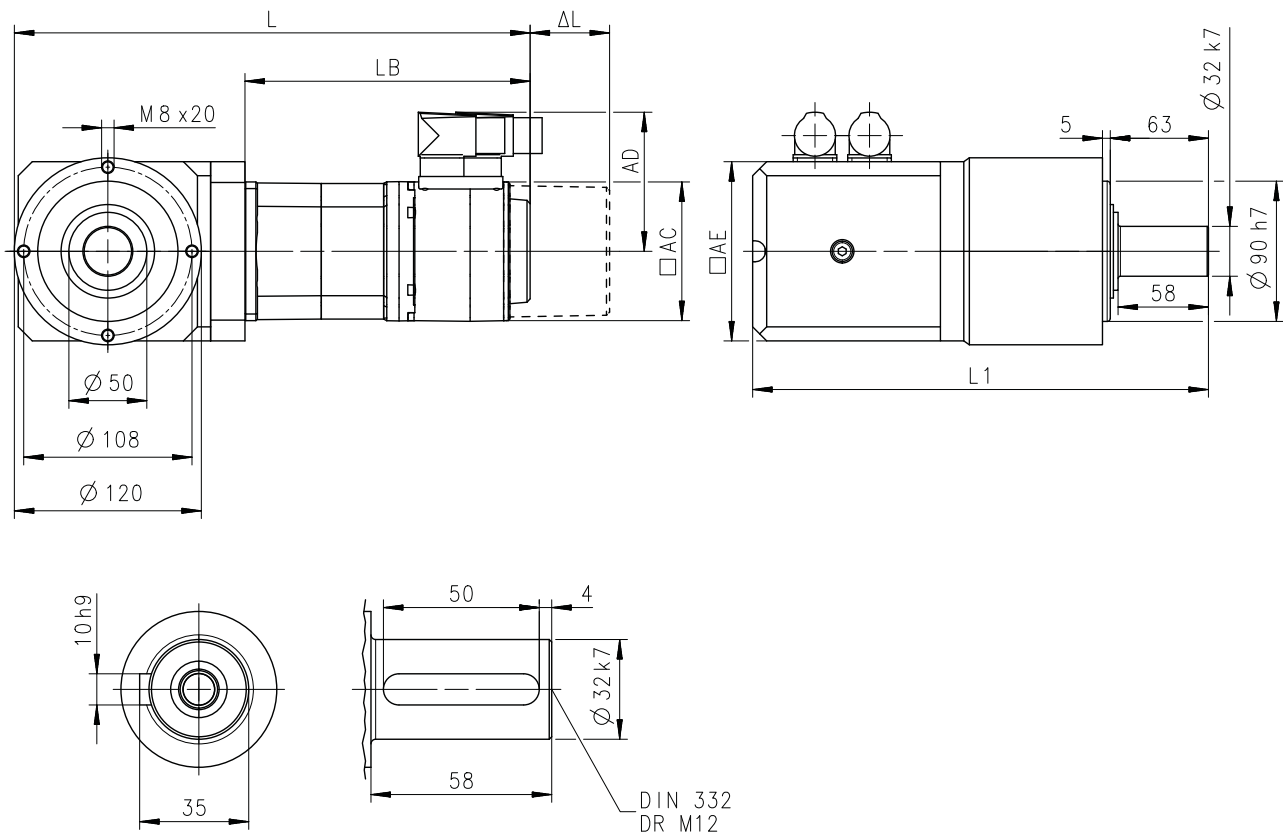


Technical data

Bevel gearbox g730-B
Basic dimensions

g730-B195 with MCS14

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800818-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	265	265
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140

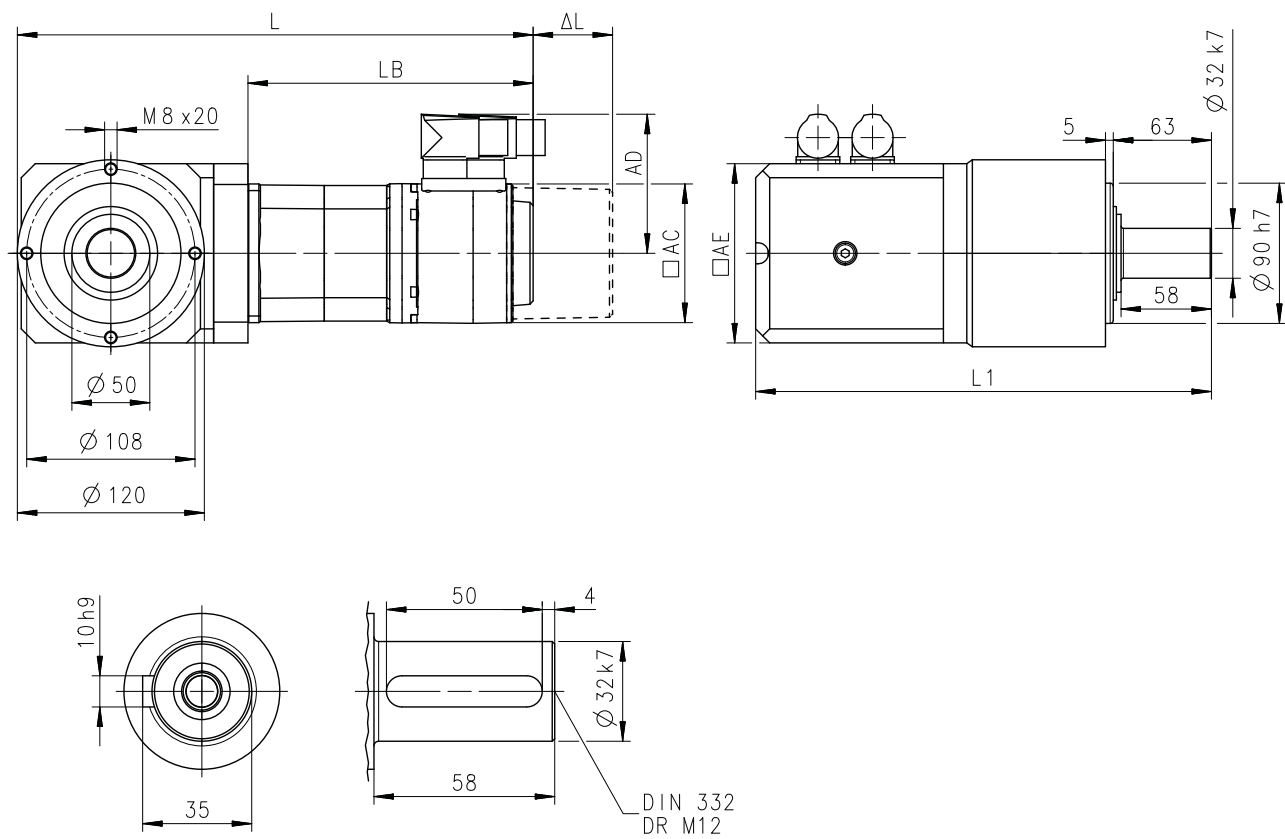
Technical data

Bevel gearbox g730-B
Basic dimensions



g730-B195 with MCS14

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800818-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	292.5	292.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140



Bevel gearbox g780-B

The modular system

Kegelrad-Planetengetriebe g780-B mit Servo-Synchronmotor MCS

Getriebe		g780-B44	g780-B130	g780-B260
Motorzuordnung min.		MCS06	MCS06	MCS06
Motorzuordnung max.		MCS06	MCS12	MCS14
Technische Daten				
Abtriebsdrehmoment max.	Nm	44	130	260
Antriebsdrehmoment min.	Nm	0.6	0.6	0.6
Antriebsdrehmoment max.	Nm	0.6	17	42
Einbaulage		Beliebig		
Farbe		Grundiert Lackiert in RAL-Farben		
Oberflächen- und Korrosionsschutz		OKS-G OKS in verschiedenen Ausführungen		
Abtriebswelle				
Flanschabtriebswelle mit Passstiftbohrung	mm	20 x 4	31.5 x 6	40 x 6
Getriebeausführung		Ohne Fuß mit Zentrierung		
Getriebestufen		1/2	1/2	1/2
Abtriebsflansch	mm	64	90	110
Schmierstoff		Synthetisches Öl Lebensmittelverträgliches Öl Tiefemperaturverträgliches Öl		
Kühlung		Selbstbelüftet Fremdbelüftet		
Motoranschluss		Steckverbinder Klemmenkasten		
Haltebremse		Ohne Mit		
Rückführung				
Ohne funktionale Sicherheit		Digitaler Absolutwertgeber für Einkabeltechnologie (OCT) Resolver Absolutwertgeber		
Mit funktionaler Sicherheit		Digitaler Absolutwertgeber für Einkabeltechnologie (OCT) Resolver Absolutwertgeber		
Temperaturüberwachung		MCS06: Temperaturfühler PT1000 MCS09 ... MCS19: Temperaturfühler PT1000 und 2x Kaltleiter PTC		



Gearbox data

g780-B44, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	14.0	16	3
4	19.0	16	5
5	24.0	16	6
7	25.0	16	6
8	18.0	16	6
10	15.0	16	6

g780-B44, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	44.0	18	7
12	44.0	18	9
15	44.0	18	8
16	44.0	18	9
20	44.0	18	9
25	40.0	18	10
32	44.0	18	9
40	40.0	18	10

g780-B130, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	40.0	13	6
4	53.0	13	11
5	67.0	13	14
7	65.0	13	16
8	50.0	13	17
10	38.0	13	18

g780-B130, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	130	15	15
12	120	15	24
15	110	15	25
16	120	15	29
20	120	15	30
25	110	15	29
32	120	15	29
40	110	15	28
64	50.0	15	17
100	38.0	15	14



Technical data

Bevel gearbox g780-B
Radial forces and axial forces

g780-B260, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
3	80.0	11	16
4	105	11	26
5	130	11	34
8	120	11	41
7	135	11	40
10	95.0	11	36

g780-B260, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
9	210	13	47
15	230	13	62
16	260	13	68
12	260	13	65
20	260	13	69
25	230	13	63
32	260	13	67
40	230	13	61
64	120	13	42
100	95.0	13	26

Radial forces and axial forces

Gearbox			g780-B44	g780-B44	g780-B130	g780-B130	g780-B260	g780-B260
Number of stages	z		1	2	1	2	1	2
Bearing service life 20000 h								
Speed		rpm	100	100	100	100	100	100
Radial force	F_{rad}	N	550	550	1400	1400	2400	2400
Axial force	F_{ax}	N	1200	1200	3000	3000	3300	3300
Bearing service life 30000 h								
Speed		rpm	100	100	100	100	100	100
Radial force	F_{rad}	N	500	500	1200	1200	2100	2100
Axial force	F_{ax}	N	1200	1200	3000	3000	3300	3300
Max. radial force	$F_{\text{rad, max}}$	N	900	900	2200	2200	3800	3800
Max. axial force	$F_{\text{ax, max}}$	N	1200	1200	3300	3300	5200	5200

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.0	1013	5.4	19.0	506	0.434	4	B44	06C41-	1	4.2
2.0	1013	5.4	19.0	506	0.434	4	B44	06C41L	1	4.2
2.5	810	5.4	24.0	405	0.405	5	B44	06C41-	1	4.2
2.5	810	5.4	24.0	405	0.405	5	B44	06C41L	1	4.2
3.5	579	5.2	25.0	289	0.380	7	B44	06C41-	1	4.2
3.5	579	5.2	25.0	289	0.380	7	B44	06C41L	1	4.2
4.2	506	4.1	18.0	253	0.375	8	B44	06C41-	1	4.2
4.2	506	4.1	18.0	253	0.375	8	B44	06C41L	1	4.2
5.2	338	5.1	44.0	169	0.492	12	B44	06C41-	2	4.6
5.2	338	5.1	44.0	169	0.492	12	B44	06C41L	2	4.6
5.4	405	2.8	15.0	203	0.368	10	B44	06C41-	1	4.2
5.4	405	2.8	15.0	203	0.368	10	B44	06C41L	1	4.2
6.9	270	4.5	44.0	135	0.375	15	B44	06C41-	2	4.6
6.9	270	4.5	44.0	135	0.375	15	B44	06C41L	2	4.6
7.5	253	4.2	44.0	127	0.384	16	B44	06C41-	2	4.6
7.5	253	4.2	44.0	127	0.384	16	B44	06C41L	2	4.6
9.9	203	3.6	44.0	101	0.373	20	B44	06C41-	2	4.6
9.9	203	3.6	44.0	101	0.373	20	B44	06C41L	2	4.6
13.0	162	3.0	40.0	81.0	0.372	25	B44	06C41-	2	4.6
13.0	162	3.0	40.0	81.0	0.372	25	B44	06C41L	2	4.6
17.0	127	2.6	44.0	63.0	0.363	32	B44	06C41-	2	4.6
17.0	127	2.6	44.0	63.0	0.363	32	B44	06C41L	2	4.6
17.0	101	5.2	110	51.0	1.059	40	B130	06C41-	2	8.0
17.0	101	5.2	110	51.0	1.059	40	B130	06C41L	2	8.0
21.0	101	1.9	40.0	51.0	0.363	40	B44	06C41-	2	4.6
21.0	101	1.9	40.0	51.0	0.363	40	B44	06C41L	2	4.6
30.0	63.3	1.7	50.0	32.0	1.058	64	B130	06C41-	2	8.0
30.0	63.3	1.7	50.0	32.0	1.058	64	B130	06C41L	2	8.0
31.0	63.3	3.8	120	32.0	1.997	64	B260	06C41-	2	17
31.0	63.3	3.8	120	32.0	1.997	64	B260	06C41L	2	17
44.0	40.5	2.1	95.0	20.0	1.959	100	B260	06C41-	2	17
44.0	40.5	2.1	95.0	20.0	1.959	100	B260	06C41L	2	17



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.31 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
1.6	1500	5.8	19.0	750	0.434	4	B44	06C60-	1	4.2
1.6	1500	5.8	19.0	750	0.434	4	B44	06C60L	1	4.2
2.0	1200	5.8	24.0	600	0.405	5	B44	06C60-	1	4.2
2.0	1200	5.8	24.0	600	0.405	5	B44	06C60L	1	4.2
2.9	857	5.6	25.0	429	0.380	7	B44	06C60-	1	4.2
2.9	857	5.6	25.0	429	0.380	7	B44	06C60L	1	4.2
3.4	750	5.0	18.0	375	0.375	8	B44	06C60-	1	4.2
3.4	750	5.0	18.0	375	0.375	8	B44	06C60L	1	4.2
4.2	500	5.4	44.0	250	0.492	12	B44	06C60-	2	4.6
4.2	500	5.4	44.0	250	0.492	12	B44	06C60L	2	4.6
4.5	600	3.3	15.0	300	0.368	10	B44	06C60-	1	4.2
4.5	600	3.3	15.0	300	0.368	10	B44	06C60L	1	4.2
5.6	400	4.8	44.0	200	0.375	15	B44	06C60-	2	4.6
5.6	400	4.8	44.0	200	0.375	15	B44	06C60L	2	4.6
6.1	375	4.5	44.0	188	0.384	16	B44	06C60-	2	4.6
6.1	375	4.5	44.0	188	0.384	16	B44	06C60L	2	4.6
8.1	300	3.9	44.0	150	0.373	20	B44	06C60-	2	4.6
8.1	300	3.9	44.0	150	0.373	20	B44	06C60L	2	4.6
11.0	240	3.3	40.0	120	0.372	25	B44	06C60-	2	4.6
11.0	240	3.3	40.0	120	0.372	25	B44	06C60L	2	4.6
14.0	188	2.8	44.0	94.0	0.363	32	B44	06C60-	2	4.6
14.0	188	2.8	44.0	94.0	0.363	32	B44	06C60L	2	4.6
17.0	150	2.3	40.0	75.0	0.363	40	B44	06C60-	2	4.6
17.0	150	2.3	40.0	75.0	0.363	40	B44	06C60L	2	4.6
25.0	93.8	2.0	50.0	47.0	1.058	64	B130	06C60-	2	8.0
25.0	93.8	2.0	50.0	47.0	1.058	64	B130	06C60L	2	8.0
34.0	60.0	1.1	38.0	30.0	1.049	100	B130	06C60-	2	8.0
34.0	60.0	1.1	38.0	30.0	1.049	100	B130	06C60L	2	8.0

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.0	1350	5.3	40.0	675	2.003	3	B130	06F41-	1	7.9
3.0	1350	5.3	40.0	675	2.003	3	B130	06F41L	1	7.9
3.3	1350	3.3	14.0	675	0.659	3	B44	06F41-	1	4.6
3.3	1350	3.3	14.0	675	0.659	3	B44	06F41L	1	4.6
4.5	1013	2.7	19.0	506	0.514	4	B44	06F41-	1	4.6
4.5	1013	2.7	19.0	506	0.514	4	B44	06F41L	1	4.6
5.6	810	2.7	24.0	405	0.485	5	B44	06F41-	1	4.6
5.6	810	2.7	24.0	405	0.485	5	B44	06F41L	1	4.6
7.7	579	2.6	25.0	289	0.460	7	B44	06F41-	1	4.6
7.7	579	2.6	25.0	289	0.460	7	B44	06F41L	1	4.6
7.8	506	5.6	50.0	253	1.214	8	B130	06F41-	1	7.9
7.8	506	5.6	50.0	253	1.214	8	B130	06F41L	1	7.9
8.7	506	2.1	18.0	253	0.455	8	B44	06F41-	1	4.6
8.7	506	2.1	18.0	253	0.455	8	B44	06F41L	1	4.6
9.2	450	3.2	44.0	225	0.579	9	B44	06F41-	2	5.0
9.2	450	3.2	44.0	225	0.579	9	B44	06F41L	2	5.0
11.0	405	1.4	15.0	203	0.448	10	B44	06F41-	1	4.6
11.0	405	1.4	15.0	203	0.448	10	B44	06F41L	1	4.6
11.0	405	3.4	38.0	203	1.177	10	B130	06F41-	1	7.9
11.0	405	3.4	38.0	203	1.177	10	B130	06F41L	1	7.9
13.0	338	2.5	44.0	169	0.572	12	B44	06F41-	2	5.0
13.0	338	2.5	44.0	169	0.572	12	B44	06F41L	2	5.0
16.0	270	2.3	44.0	135	0.455	15	B44	06F41-	2	5.0
16.0	270	2.3	44.0	135	0.455	15	B44	06F41L	2	5.0
17.0	253	2.1	44.0	127	0.464	16	B44	06F41-	2	5.0
17.0	253	2.1	44.0	127	0.464	16	B44	06F41L	2	5.0
17.0	203	5.4	120	101	1.188	20	B130	06F41-	2	8.4
17.0	203	5.4	120	101	1.188	20	B130	06F41L	2	8.4
22.0	203	1.8	44.0	101	0.453	20	B44	06F41-	2	5.0
22.0	203	1.8	44.0	101	0.453	20	B44	06F41L	2	5.0
24.0	162	4.0	110	81.0	1.182	25	B130	06F41-	2	8.4
24.0	162	4.0	110	81.0	1.182	25	B130	06F41L	2	8.4
27.0	162	1.5	40.0	81.0	0.452	25	B44	06F41-	2	5.0
27.0	162	1.5	40.0	81.0	0.452	25	B44	06F41L	2	5.0
32.0	127	3.4	120	63.0	1.141	32	B130	06F41-	2	8.4
32.0	127	3.4	120	63.0	1.141	32	B130	06F41L	2	8.4
34.0	127	1.3	44.0	63.0	0.443	32	B44	06F41-	2	5.0
34.0	127	1.3	44.0	63.0	0.443	32	B44	06F41L	2	5.0
34.0	101	5.3	230	51.0	2.084	40	B260	06F41-	2	18
34.0	101	5.3	230	51.0	2.084	40	B260	06F41L	2	18
43.0	101	2.6	110	51.0	1.139	40	B130	06F41-	2	8.4
43.0	101	2.6	110	51.0	1.139	40	B130	06F41L	2	8.4
64.0	63.3	1.9	120	32.0	2.077	64	B260	06F41-	2	18
64.0	63.3	1.9	120	32.0	2.077	64	B260	06F41L	2	18
89.0	40.5	1.1	95.0	20.0	2.039	100	B260	06F41-	2	18
89.0	40.5	1.1	95.0	20.0	2.039	100	B260	06F41L	2	18



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
2.4	2000	3.9	14.0	1000	0.659	3	B44	06F60-	1	4.6
2.4	2000	3.9	14.0	1000	0.659	3	B44	06F60L	1	4.6
3.3	1500	3.2	19.0	750	0.514	4	B44	06F60-	1	4.6
3.3	1500	3.2	19.0	750	0.514	4	B44	06F60L	1	4.6
4.1	1200	3.2	24.0	600	0.485	5	B44	06F60-	1	4.6
4.1	1200	3.2	24.0	600	0.485	5	B44	06F60L	1	4.6
5.8	857	3.1	25.0	429	0.460	7	B44	06F60-	1	4.6
5.8	857	3.1	25.0	429	0.460	7	B44	06F60L	1	4.6
6.6	750	2.8	18.0	375	0.455	8	B44	06F60-	1	4.6
6.6	750	2.8	18.0	375	0.455	8	B44	06F60L	1	4.6
6.6	667	3.8	44.0	333	0.579	9	B44	06F60-	2	5.0
6.6	667	3.8	44.0	333	0.579	9	B44	06F60L	2	5.0
7.7	600	4.6	38.0	300	1.177	10	B130	06F60-	1	7.9
7.7	600	4.6	38.0	300	1.177	10	B130	06F60L	1	7.9
8.1	600	1.9	15.0	300	0.448	10	B44	06F60-	1	4.6
8.1	600	1.9	15.0	300	0.448	10	B44	06F60L	1	4.6
9.4	500	3.0	44.0	250	0.572	12	B44	06F60-	2	5.0
9.4	500	3.0	44.0	250	0.572	12	B44	06F60L	2	5.0
12.0	400	2.7	44.0	200	0.455	15	B44	06F60-	2	5.0
12.0	400	2.7	44.0	200	0.455	15	B44	06F60L	2	5.0
13.0	375	2.5	44.0	188	0.464	16	B44	06F60-	2	5.0
13.0	375	2.5	44.0	188	0.464	16	B44	06F60L	2	5.0
16.0	300	2.2	44.0	150	0.453	20	B44	06F60-	2	5.0
16.0	300	2.2	44.0	150	0.453	20	B44	06F60L	2	5.0
16.0	240	5.4	110	120	1.182	25	B130	06F60-	2	8.4
16.0	240	5.4	110	120	1.182	25	B130	06F60L	2	8.4
20.0	240	1.8	40.0	120	0.452	25	B44	06F60-	2	5.0
20.0	240	1.8	40.0	120	0.452	25	B44	06F60L	2	5.0
22.0	188	4.6	120	94.0	1.141	32	B130	06F60-	2	8.4
22.0	188	4.6	120	94.0	1.141	32	B130	06F60L	2	8.4
26.0	188	1.6	44.0	94.0	0.443	32	B44	06F60-	2	5.0
26.0	188	1.6	44.0	94.0	0.443	32	B44	06F60L	2	5.0
30.0	150	3.4	110	75.0	1.139	40	B130	06F60-	2	8.4
30.0	150	3.4	110	75.0	1.139	40	B130	06F60L	2	8.4
31.0	150	1.3	40.0	75.0	0.443	40	B44	06F60-	2	5.0
31.0	150	1.3	40.0	75.0	0.443	40	B44	06F60L	2	5.0
46.0	93.8	1.1	50.0	47.0	1.138	64	B130	06F60-	2	8.4
46.0	93.8	1.1	50.0	47.0	1.138	64	B130	06F60L	2	8.4
48.0	93.8	2.5	120	47.0	2.077	64	B260	06F60-	2	18
48.0	93.8	2.5	120	47.0	2.077	64	B260	06F60L	2	18
67.0	60.0	1.4	95.0	30.0	2.039	100	B260	06F60-	2	18
67.0	60.0	1.4	95.0	30.0	2.039	100	B260	06F60L	2	18

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.9	1350	4.3	40.0	675	2.083	3	B130	06I41-	1	8.6
3.9	1350	4.3	40.0	675	2.083	3	B130	06I41L	1	8.6
4.2	1350	2.7	14.0	675	0.739	3	B44	06I41-	1	5.3
4.2	1350	2.7	14.0	675	0.739	3	B44	06I41L	1	5.3
5.6	1013	2.2	19.0	506	0.594	4	B44	06I41-	1	5.3
5.6	1013	2.2	19.0	506	0.594	4	B44	06I41L	1	5.3
7.0	810	2.2	24.0	405	0.565	5	B44	06I41-	1	5.3
7.0	810	2.2	24.0	405	0.565	5	B44	06I41L	1	5.3
9.7	579	2.1	25.0	289	0.540	7	B44	06I41-	1	5.3
9.7	579	2.1	25.0	289	0.540	7	B44	06I41L	1	5.3
10.0	506	4.5	50.0	253	1.294	8	B130	06I41-	1	8.6
10.0	506	4.5	50.0	253	1.294	8	B130	06I41L	1	8.6
11.0	506	1.7	18.0	253	0.535	8	B44	06I41-	1	5.3
11.0	506	1.7	18.0	253	0.535	8	B44	06I41L	1	5.3
12.0	450	2.6	44.0	225	0.659	9	B44	06I41-	2	5.7
12.0	450	2.6	44.0	225	0.659	9	B44	06I41L	2	5.7
14.0	405	1.1	15.0	203	0.528	10	B44	06I41-	1	5.3
14.0	405	1.1	15.0	203	0.528	10	B44	06I41L	1	5.3
14.0	405	2.8	38.0	203	1.257	10	B130	06I41-	1	8.6
14.0	405	2.8	38.0	203	1.257	10	B130	06I41L	1	8.6
16.0	270	5.3	110	135	1.526	15	B130	06I41-	2	9.1
16.0	270	5.3	110	135	1.526	15	B130	06I41L	2	9.1
17.0	338	2.0	44.0	169	0.652	12	B44	06I41-	2	5.7
17.0	338	2.0	44.0	169	0.652	12	B44	06I41L	2	5.7
17.0	253	5.4	120	127	1.315	16	B130	06I41-	2	9.1
17.0	253	5.4	120	127	1.315	16	B130	06I41L	2	9.1
20.0	270	1.8	44.0	135	0.535	15	B44	06I41-	2	5.7
20.0	270	1.8	44.0	135	0.535	15	B44	06I41L	2	5.7
22.0	253	1.7	44.0	127	0.544	16	B44	06I41-	2	5.7
22.0	253	1.7	44.0	127	0.544	16	B44	06I41L	2	5.7
23.0	203	4.4	120	101	1.268	20	B130	06I41-	2	9.1
23.0	203	4.4	120	101	1.268	20	B130	06I41L	2	9.1
27.0	203	1.5	44.0	101	0.533	20	B44	06I41-	2	5.7
27.0	203	1.5	44.0	101	0.533	20	B44	06I41L	2	5.7
32.0	162	3.2	110	81.0	1.262	25	B130	06I41-	2	9.1
32.0	162	3.2	110	81.0	1.262	25	B130	06I41L	2	9.1
32.0	127	6.0	260	63.0	2.170	32	B260	06I41-	2	18
32.0	127	6.0	260	63.0	2.170	32	B260	06I41L	2	18
33.0	162	1.2	40.0	81.0	0.532	25	B44	06I41-	2	5.7
33.0	162	1.2	40.0	81.0	0.532	25	B44	06I41L	2	5.7
43.0	127	1.0	44.0	63.0	0.523	32	B44	06I41-	2	5.7
43.0	127	1.0	44.0	63.0	0.523	32	B44	06I41L	2	5.7
43.0	127	2.8	120	63.0	1.221	32	B130	06I41-	2	9.1
43.0	127	2.8	120	63.0	1.221	32	B130	06I41L	2	9.1
47.0	101	4.3	230	51.0	2.164	40	B260	06I41-	2	18
47.0	101	4.3	230	51.0	2.164	40	B260	06I41L	2	18
53.0	101	2.1	110	51.0	1.219	40	B130	06I41-	2	9.1
53.0	101	2.1	110	51.0	1.219	40	B130	06I41L	2	9.1
80.0	63.3	1.5	120	32.0	2.157	64	B260	06I41-	2	18
80.0	63.3	1.5	120	32.0	2.157	64	B260	06I41L	2	18



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
3.1	2000	4.7	40.0	1000	2.083	3	B130	06I60-	1	8.6
3.1	2000	4.7	40.0	1000	2.083	3	B130	06I60L	1	8.6
3.3	2000	2.9	14.0	1000	0.739	3	B44	06I60-	1	5.3
3.3	2000	2.9	14.0	1000	0.739	3	B44	06I60L	1	5.3
4.5	1500	2.4	19.0	750	0.594	4	B44	06I60-	1	5.3
4.5	1500	2.4	19.0	750	0.594	4	B44	06I60L	1	5.3
5.6	1200	2.4	24.0	600	0.565	5	B44	06I60-	1	5.3
5.6	1200	2.4	24.0	600	0.565	5	B44	06I60L	1	5.3
7.7	857	2.3	25.0	429	0.540	7	B44	06I60-	1	5.3
7.7	857	2.3	25.0	429	0.540	7	B44	06I60L	1	5.3
7.8	750	5.6	50.0	375	1.294	8	B130	06I60-	1	8.6
7.8	750	5.6	50.0	375	1.294	8	B130	06I60L	1	8.6
8.7	750	2.1	18.0	375	0.535	8	B44	06I60-	1	5.3
8.7	750	2.1	18.0	375	0.535	8	B44	06I60L	1	5.3
9.5	667	2.8	44.0	333	0.659	9	B44	06I60-	2	5.7
9.5	667	2.8	44.0	333	0.659	9	B44	06I60L	2	5.7
11.0	600	1.4	15.0	300	0.528	10	B44	06I60-	1	5.3
11.0	600	1.4	15.0	300	0.528	10	B44	06I60L	1	5.3
11.0	600	3.4	38.0	300	1.257	10	B130	06I60-	1	8.6
11.0	600	3.4	38.0	300	1.257	10	B130	06I60L	1	8.6
13.0	500	2.3	44.0	250	0.652	12	B44	06I60-	2	5.7
13.0	500	2.3	44.0	250	0.652	12	B44	06I60L	2	5.7
16.0	400	2.0	44.0	200	0.535	15	B44	06I60-	2	5.7
16.0	400	2.0	44.0	200	0.535	15	B44	06I60L	2	5.7
17.0	375	1.9	44.0	188	0.544	16	B44	06I60-	2	5.7
17.0	375	1.9	44.0	188	0.544	16	B44	06I60L	2	5.7
17.0	300	5.4	120	150	1.268	20	B130	06I60-	2	9.1
17.0	300	5.4	120	150	1.268	20	B130	06I60L	2	9.1
22.0	300	1.6	44.0	150	0.533	20	B44	06I60-	2	5.7
22.0	300	1.6	44.0	150	0.533	20	B44	06I60L	2	5.7
24.0	240	4.0	110	120	1.262	25	B130	06I60-	2	9.1
24.0	240	4.0	110	120	1.262	25	B130	06I60L	2	9.1
27.0	240	1.4	40.0	120	0.532	25	B44	06I60-	2	5.7
27.0	240	1.4	40.0	120	0.532	25	B44	06I60L	2	5.7
32.0	188	3.4	120	94.0	1.221	32	B130	06I60-	2	9.1
32.0	188	3.4	120	94.0	1.221	32	B130	06I60L	2	9.1
34.0	188	1.2	44.0	94.0	0.523	32	B44	06I60-	2	5.7
34.0	188	1.2	44.0	94.0	0.523	32	B44	06I60L	2	5.7
34.0	150	5.3	230	75.0	2.164	40	B260	06I60-	2	18
34.0	150	5.3	230	75.0	2.164	40	B260	06I60L	2	18
43.0	150	2.6	110	75.0	1.219	40	B130	06I60-	2	9.1
43.0	150	2.6	110	75.0	1.219	40	B130	06I60L	2	9.1
64.0	93.8	1.9	120	47.0	2.157	64	B260	06I60-	2	18
64.0	93.8	1.9	120	47.0	2.157	64	B260	06I60L	2	18
89.0	60.0	1.1	95.0	30.0	2.119	100	B260	06I60-	2	18
89.0	60.0	1.1	95.0	30.0	2.119	100	B260	06I60L	2	18

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.4	1350	2.8	40.0	675	2.883	3	B130	09D41-	1	10
6.4	1350	2.8	40.0	675	2.883	3	B130	09D41L	1	10
8.1	1013	3.9	53.0	506	2.414	4	B130	09D41-	1	10
8.1	1013	3.9	53.0	506	2.414	4	B130	09D41L	1	10
10.0	810	4.2	67.0	405	2.260	5	B130	09D41-	1	10
10.0	810	4.2	67.0	405	2.260	5	B130	09D41L	1	10
14.0	579	4.3	65.0	289	2.125	7	B130	09D41-	1	10
14.0	579	4.3	65.0	289	2.125	7	B130	09D41L	1	10
16.0	450	4.6	130	225	2.386	9	B130	09D41-	2	11
16.0	450	4.6	130	225	2.386	9	B130	09D41L	2	11
17.0	506	2.9	50.0	253	2.094	8	B130	09D41-	1	10
17.0	506	2.9	50.0	253	2.094	8	B130	09D41L	1	10
20.0	405	4.4	95.0	203	3.026	10	B260	09D41-	1	18
20.0	405	4.4	95.0	203	3.026	10	B260	09D41L	1	18
21.0	405	1.8	38.0	203	2.057	10	B130	09D41-	1	10
21.0	405	1.8	38.0	203	2.057	10	B130	09D41L	1	10
21.0	338	4.5	120	169	2.343	12	B130	09D41-	2	11
21.0	338	4.5	120	169	2.343	12	B130	09D41L	2	11
29.0	270	3.5	110	135	2.326	15	B130	09D41-	2	11
29.0	270	3.5	110	135	2.326	15	B130	09D41L	2	11
31.0	253	3.5	120	127	2.115	16	B130	09D41-	2	11
31.0	253	3.5	120	127	2.115	16	B130	09D41L	2	11
41.0	203	2.8	120	101	2.068	20	B130	09D41-	2	11
41.0	203	2.8	120	101	2.068	20	B130	09D41L	2	11
44.0	162	4.4	230	81.0	3.122	25	B260	09D41-	2	20
44.0	162	4.4	230	81.0	3.122	25	B260	09D41L	2	20
52.0	162	2.1	110	81.0	2.062	25	B130	09D41-	2	11
52.0	162	2.1	110	81.0	2.062	25	B130	09D41L	2	11
59.0	127	3.9	260	63.0	2.970	32	B260	09D41-	2	20
59.0	127	3.9	260	63.0	2.970	32	B260	09D41L	2	20
67.0	127	1.8	120	63.0	2.021	32	B130	09D41-	2	11
67.0	127	1.8	120	63.0	2.021	32	B130	09D41L	2	11
81.0	101	2.8	230	51.0	2.964	40	B260	09D41-	2	20
81.0	101	2.8	230	51.0	2.964	40	B260	09D41L	2	20
82.0	101	1.3	110	51.0	2.019	40	B130	09D41-	2	11
82.0	101	1.3	110	51.0	2.019	40	B130	09D41L	2	11



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.9	2000	3.2	40.0	1000	2.883	3	B130	09D60-	1	10
4.9	2000	3.2	40.0	1000	2.883	3	B130	09D60L	1	10
6.2	1500	4.4	53.0	750	2.414	4	B130	09D60-	1	10
6.2	1500	4.4	53.0	750	2.414	4	B130	09D60L	1	10
7.7	1200	4.7	67.0	600	2.260	5	B130	09D60-	1	10
7.7	1200	4.7	67.0	600	2.260	5	B130	09D60L	1	10
11.0	857	5.2	65.0	429	2.125	7	B130	09D60-	1	10
11.0	857	5.2	65.0	429	2.125	7	B130	09D60L	1	10
12.0	667	5.2	130	333	2.386	9	B130	09D60-	2	11
12.0	667	5.2	130	333	2.386	9	B130	09D60L	2	11
13.0	750	3.7	50.0	375	2.094	8	B130	09D60-	1	10
13.0	750	3.7	50.0	375	2.094	8	B130	09D60L	1	10
14.0	650	4.3	80.0	325	7.914	3	B260	12D20-	1	20
14.0	650	4.3	80.0	325	7.914	3	B260	12D20L	1	20
15.0	600	5.7	95.0	300	3.026	10	B260	09D60-	1	18
15.0	600	5.7	95.0	300	3.026	10	B260	09D60L	1	18
16.0	650	1.4	40.0	325	5.783	3	B130	12D20-	1	12
16.0	650	1.4	40.0	325	5.783	3	B130	12D20L	1	12
16.0	500	5.1	120	250	2.343	12	B130	09D60-	2	11
16.0	500	5.1	120	250	2.343	12	B130	09D60L	2	11
17.0	600	2.3	38.0	300	2.057	10	B130	09D60-	1	10
17.0	600	2.3	38.0	300	2.057	10	B130	09D60L	1	10
19.0	488	4.7	105	244	6.869	4	B260	12D20-	1	20
19.0	488	4.7	105	244	6.869	4	B260	12D20L	1	20
21.0	488	2.1	53.0	244	5.314	4	B130	12D20-	1	12
21.0	488	2.1	53.0	244	5.314	4	B130	12D20L	1	12
21.0	400	4.3	110	200	2.326	15	B130	09D60-	2	11
21.0	400	4.3	110	200	2.326	15	B130	09D60L	2	11
23.0	390	5.0	130	195	6.458	5	B260	12D20-	1	20
23.0	390	5.0	130	195	6.458	5	B260	12D20L	1	20
23.0	375	4.2	120	188	2.115	16	B130	09D60-	2	11
23.0	375	4.2	120	188	2.115	16	B130	09D60L	2	11
26.0	390	2.3	67.0	195	5.160	5	B130	12D20-	1	12
26.0	390	2.3	67.0	195	5.160	5	B130	12D20L	1	12
30.0	300	3.6	120	150	2.068	20	B130	09D60-	2	11
30.0	300	3.6	120	150	2.068	20	B130	09D60L	2	11
31.0	240	5.6	230	120	3.122	25	B260	09D60-	2	20
31.0	240	5.6	230	120	3.122	25	B260	09D60L	2	20
34.0	279	3.7	135	139	6.101	7	B260	12D20-	1	20
34.0	279	3.7	135	139	6.101	7	B260	12D20L	1	20
36.0	279	1.8	65.0	139	5.025	7	B130	12D20-	1	12
36.0	279	1.8	65.0	139	5.025	7	B130	12D20L	1	12
39.0	217	4.1	210	108	6.892	9	B260	12D20-	2	22
39.0	217	4.1	210	108	6.892	9	B260	12D20L	2	22
40.0	240	2.7	110	120	2.062	25	B130	09D60-	2	11
40.0	240	2.7	110	120	2.062	25	B130	09D60L	2	11
41.0	244	1.2	50.0	122	4.994	8	B130	12D20-	1	12
41.0	244	1.2	50.0	122	4.994	8	B130	12D20L	1	12
41.0	244	2.9	120	122	6.023	8	B260	12D20-	1	20
41.0	244	2.9	120	122	6.023	8	B260	12D20L	1	20
42.0	188	5.0	260	94.0	2.970	32	B260	09D60-	2	20

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
42.0	188	5.0	260	94.0	2.970	32	B260	09D60L	2	20
45.0	217	2.4	130	108	5.286	9	B130	12D20-	2	13
45.0	217	2.4	130	108	5.286	9	B130	12D20L	2	13
51.0	195	1.9	95.0	98.0	5.926	10	B260	12D20-	1	20
51.0	195	1.9	95.0	98.0	5.926	10	B260	12D20L	1	20
52.0	188	2.3	120	94.0	2.021	32	B130	09D60-	2	11
52.0	188	2.3	120	94.0	2.021	32	B130	09D60L	2	11
52.0	163	4.2	260	81.0	6.774	12	B260	12D20-	2	22
52.0	163	4.2	260	81.0	6.774	12	B260	12D20L	2	22
60.0	150	3.6	230	75.0	2.964	40	B260	09D60-	2	20
60.0	150	3.6	230	75.0	2.964	40	B260	09D60L	2	20
61.0	163	2.0	120	81.0	5.243	12	B130	12D20-	2	13
61.0	163	2.0	120	81.0	5.243	12	B130	12D20L	2	13
64.0	150	1.7	110	75.0	2.019	40	B130	09D60-	2	11
64.0	150	1.7	110	75.0	2.019	40	B130	09D60L	2	11
72.0	130	3.0	230	65.0	6.730	15	B260	12D20-	2	22
72.0	130	3.0	230	65.0	6.730	15	B260	12D20L	2	22
75.0	122	3.2	260	61.0	6.225	16	B260	12D20-	2	22
75.0	122	3.2	260	61.0	6.225	16	B260	12D20L	2	22
76.0	130	1.5	110	65.0	5.226	15	B130	12D20-	2	13
76.0	130	1.5	110	65.0	5.226	15	B130	12D20L	2	13
81.0	122	1.5	120	61.0	5.015	16	B130	12D20-	2	13
81.0	122	1.5	120	61.0	5.015	16	B130	12D20L	2	13
96.0	93.8	1.3	120	47.0	2.957	64	B260	09D60-	2	20
96.0	93.8	1.3	120	47.0	2.957	64	B260	09D60L	2	20
99.0	97.5	2.6	260	49.0	6.038	20	B260	12D20-	2	22
99.0	97.5	2.6	260	49.0	6.038	20	B260	12D20L	2	22
101	97.5	1.2	120	49.0	4.968	20	B130	12D20-	2	13
101	97.5	1.2	120	49.0	4.968	20	B130	12D20L	2	13
125	78.0	1.8	230	39.0	6.022	25	B260	12D20-	2	22
125	78.0	1.8	230	39.0	6.022	25	B260	12D20L	2	22
160	60.9	1.6	260	30.0	5.870	32	B260	12D20-	2	22
160	60.9	1.6	260	30.0	5.870	32	B260	12D20L	2	22
198	48.8	1.2	230	24.0	5.864	40	B260	12D20-	2	22
198	48.8	1.2	230	24.0	5.864	40	B260	12D20L	2	22



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.7	1250	2.1	40.0	625	3.283	3	B130	09F38-	1	11
8.7	1250	2.1	40.0	625	3.283	3	B130	09F38L	1	11
11.0	938	3.0	53.0	469	2.814	4	B130	09F38-	1	11
11.0	938	3.0	53.0	469	2.814	4	B130	09F38L	1	11
14.0	750	3.2	67.0	375	2.660	5	B130	09F38-	1	11
14.0	750	3.2	67.0	375	2.660	5	B130	09F38L	1	11
18.0	417	6.0	210	208	4.392	9	B260	09F38-	2	21
18.0	417	6.0	210	208	4.392	9	B260	09F38L	2	21
20.0	536	3.2	65.0	268	2.525	7	B130	09F38-	1	11
20.0	536	3.2	65.0	268	2.525	7	B130	09F38L	1	11
21.0	469	5.2	120	234	3.523	8	B260	09F38-	1	19
21.0	469	5.2	120	234	3.523	8	B260	09F38L	1	19
23.0	469	2.2	50.0	234	2.494	8	B130	09F38-	1	11
23.0	469	2.2	50.0	234	2.494	8	B130	09F38L	1	11
23.0	417	3.5	130	208	2.786	9	B130	09F38-	2	11
23.0	417	3.5	130	208	2.786	9	B130	09F38L	2	12
28.0	375	3.3	95.0	188	3.426	10	B260	09F38-	1	19
28.0	375	3.3	95.0	188	3.426	10	B260	09F38L	1	19
29.0	375	1.3	38.0	188	2.457	10	B130	09F38-	1	11
29.0	375	1.3	38.0	188	2.457	10	B130	09F38L	1	11
31.0	313	3.4	120	156	2.743	12	B130	09F38-	2	11
31.0	313	3.4	120	156	2.743	12	B130	09F38L	2	12
33.0	250	5.3	230	125	4.230	15	B260	09F38-	2	21
33.0	250	5.3	230	125	4.230	15	B260	09F38L	2	21
34.0	234	5.6	260	117	3.725	16	B260	09F38-	2	21
34.0	234	5.6	260	117	3.725	16	B260	09F38L	2	21
42.0	250	2.6	110	125	2.726	15	B130	09F38-	2	11
42.0	250	2.6	110	125	2.726	15	B130	09F38L	2	12
44.0	234	2.6	120	117	2.515	16	B130	09F38-	2	11
44.0	234	2.6	120	117	2.515	16	B130	09F38L	2	12
47.0	188	4.6	260	94.0	3.538	20	B260	09F38-	2	21
47.0	188	4.6	260	94.0	3.538	20	B260	09F38L	2	21
57.0	188	2.1	120	94.0	2.468	20	B130	09F38-	2	11
57.0	188	2.1	120	94.0	2.468	20	B130	09F38L	2	12
66.0	150	3.3	230	75.0	3.522	25	B260	09F38-	2	21
66.0	150	3.3	230	75.0	3.522	25	B260	09F38L	2	21
71.0	150	1.6	110	75.0	2.462	25	B130	09F38-	2	11
71.0	150	1.6	110	75.0	2.462	25	B130	09F38L	2	12
87.0	117	2.9	260	59.0	3.370	32	B260	09F38-	2	21
87.0	117	2.9	260	59.0	3.370	32	B260	09F38L	2	21
90.0	117	1.3	120	59.0	2.421	32	B130	09F38-	2	11
90.0	117	1.3	120	59.0	2.421	32	B130	09F38L	2	12
112	93.8	2.1	230	47.0	3.364	40	B260	09F38-	2	21
112	93.8	2.1	230	47.0	3.364	40	B260	09F38L	2	21

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
26.0	500	2.8	80.0	250	12.014	3	B260	14D15-	1	42
34.0	375	3.0	105	188	10.969	4	B260	14D15-	1	42
42.0	300	3.0	130	150	10.558	5	B260	14D15-	1	42
61.0	214	2.2	135	107	10.201	7	B260	14D15-	1	42
69.0	188	1.7	120	94.0	10.123	8	B260	14D15-	1	42
74.0	167	2.6	210	83.0	10.992	9	B260	14D15-	2	44
86.0	150	1.1	95.0	75.0	10.026	10	B260	14D15-	1	42
100	125	2.5	260	63.0	10.874	12	B260	14D15-	2	44
128	100	1.8	230	50.0	10.830	15	B260	14D15-	2	44
137	93.8	1.9	260	47.0	10.325	16	B260	14D15-	2	44
169	75.0	1.5	260	38.0	10.138	20	B260	14D15-	2	44
209	60.0	1.1	230	30.0	10.122	25	B260	14D15-	2	44



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.8	2000	2.4	40.0	1000	3.283	3	B130	09F60-	1	11
6.8	2000	2.4	40.0	1000	3.283	3	B130	09F60L	1	11
8.7	1500	3.3	53.0	750	2.814	4	B130	09F60-	1	11
8.7	1500	3.3	53.0	750	2.814	4	B130	09F60L	1	11
11.0	1200	3.6	67.0	600	2.660	5	B130	09F60-	1	11
11.0	1200	3.6	67.0	600	2.660	5	B130	09F60L	1	11
15.0	857	3.9	65.0	429	2.525	7	B130	09F60-	1	11
15.0	857	3.9	65.0	429	2.525	7	B130	09F60L	1	11
17.0	667	3.9	130	333	2.786	9	B130	09F60-	2	11
17.0	667	3.9	130	333	2.786	9	B130	09F60L	2	12
18.0	750	2.8	50.0	375	2.494	8	B130	09F60-	1	11
18.0	750	2.8	50.0	375	2.494	8	B130	09F60L	1	11
21.0	600	4.3	95.0	300	3.426	10	B260	09F60-	1	19
21.0	600	4.3	95.0	300	3.426	10	B260	09F60L	1	19
22.0	600	1.7	38.0	300	2.457	10	B130	09F60-	1	11
22.0	600	1.7	38.0	300	2.457	10	B130	09F60L	1	11
23.0	500	3.8	120	250	2.743	12	B130	09F60-	2	11
23.0	500	3.8	120	250	2.743	12	B130	09F60L	2	12
31.0	400	3.2	110	200	2.726	15	B130	09F60-	2	11
31.0	400	3.2	110	200	2.726	15	B130	09F60L	2	12
32.0	300	5.9	260	150	3.538	20	B260	09F60-	2	21
32.0	300	5.9	260	150	3.538	20	B260	09F60L	2	21
33.0	375	3.1	120	188	2.515	16	B130	09F60-	2	11
33.0	375	3.1	120	188	2.515	16	B130	09F60L	2	12
43.0	300	2.7	120	150	2.468	20	B130	09F60-	2	11
43.0	300	2.7	120	150	2.468	20	B130	09F60L	2	12
47.0	240	4.2	230	120	3.522	25	B260	09F60-	2	21
47.0	240	4.2	230	120	3.522	25	B260	09F60L	2	21
55.0	240	2.0	110	120	2.462	25	B130	09F60-	2	11
55.0	240	2.0	110	120	2.462	25	B130	09F60L	2	12
63.0	188	3.7	260	94.0	3.370	32	B260	09F60-	2	21
63.0	188	3.7	260	94.0	3.370	32	B260	09F60L	2	21
70.0	188	1.7	120	94.0	2.421	32	B130	09F60-	2	11
70.0	188	1.7	120	94.0	2.421	32	B130	09F60L	2	12
85.0	150	1.3	110	75.0	2.419	40	B130	09F60-	2	11
85.0	150	1.3	110	75.0	2.419	40	B130	09F60L	2	12
86.0	150	2.7	230	75.0	3.364	40	B260	09F60-	2	21
86.0	150	2.7	230	75.0	3.364	40	B260	09F60L	2	21

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
9.6	1350	4.9	80.0	675	5.814	3	B260	09H41-	1	20
9.6	1350	4.9	80.0	675	5.814	3	B260	09H41L	1	20
11.0	1350	1.7	40.0	675	3.683	3	B130	09H41-	1	12
11.0	1350	1.7	40.0	675	3.683	3	B130	09H41L	1	12
13.0	1013	5.4	105	506	4.769	4	B260	09H41-	1	20
13.0	1013	5.4	105	506	4.769	4	B260	09H41L	1	20
14.0	1013	2.4	53.0	506	3.214	4	B130	09H41-	1	12
14.0	1013	2.4	53.0	506	3.214	4	B130	09H41L	1	12
15.0	810	5.8	130	405	4.358	5	B260	09H41-	1	20
15.0	810	5.8	130	405	4.358	5	B260	09H41L	1	20
18.0	810	2.6	67.0	405	3.060	5	B130	09H41-	1	12
18.0	810	2.6	67.0	405	3.060	5	B130	09H41L	1	12
22.0	579	5.4	135	289	4.001	7	B260	09H41-	1	20
22.0	579	5.4	135	289	4.001	7	B260	09H41L	1	20
25.0	579	2.6	65.0	289	2.925	7	B130	09H41-	1	12
25.0	579	2.6	65.0	289	2.925	7	B130	09H41L	1	12
26.0	450	4.8	210	225	4.792	9	B260	09H41-	2	22
26.0	450	4.8	210	225	4.792	9	B260	09H41L	2	22
27.0	506	4.2	120	253	3.923	8	B260	09H41-	1	20
27.0	506	4.2	120	253	3.923	8	B260	09H41L	1	20
28.0	506	1.8	50.0	253	2.894	8	B130	09H41-	1	12
28.0	506	1.8	50.0	253	2.894	8	B130	09H41L	1	12
28.0	500	2.6	80.0	250	11.214	3	B260	12H15-	1	23
28.0	500	2.6	80.0	250	11.214	3	B260	12H15L	1	23
30.0	450	2.8	130	225	3.186	9	B130	09H41-	2	12
30.0	450	2.8	130	225	3.186	9	B130	09H41L	2	12
35.0	405	1.1	38.0	203	2.857	10	B130	09H41-	1	12
35.0	405	1.1	38.0	203	2.857	10	B130	09H41L	1	12
35.0	405	2.7	95.0	203	3.826	10	B260	09H41-	1	20
35.0	405	2.7	95.0	203	3.826	10	B260	09H41L	1	20
37.0	375	2.8	105	188	10.169	4	B260	12H15-	1	23
37.0	375	2.8	105	188	10.169	4	B260	12H15L	1	23
41.0	338	2.7	120	169	3.143	12	B130	09H41-	2	12
41.0	338	2.7	120	169	3.143	12	B130	09H41L	2	12
44.0	270	4.3	230	135	4.630	15	B260	09H41-	2	22
44.0	270	4.3	230	135	4.630	15	B260	09H41L	2	22
46.0	300	2.8	130	150	9.758	5	B260	12H15-	1	23
46.0	300	2.8	130	150	9.758	5	B260	12H15L	1	23
46.0	253	4.6	260	127	4.125	16	B260	09H41-	2	22
46.0	253	4.6	260	127	4.125	16	B260	09H41L	2	22
52.0	270	2.1	110	135	3.126	15	B130	09H41-	2	12
52.0	270	2.1	110	135	3.126	15	B130	09H41L	2	12
56.0	253	2.2	120	127	2.915	16	B130	09H41-	2	12
56.0	253	2.2	120	127	2.915	16	B130	09H41L	2	12
62.0	203	3.7	260	101	3.938	20	B260	09H41-	2	22
62.0	203	3.7	260	101	3.938	20	B260	09H41L	2	22
66.0	214	2.1	135	107	9.401	7	B260	12H15-	1	23
66.0	214	2.1	135	107	9.401	7	B260	12H15L	1	23
70.0	203	1.7	120	101	2.868	20	B130	09H41-	2	12
70.0	203	1.7	120	101	2.868	20	B130	09H41L	2	12
75.0	188	1.6	120	94.0	9.323	8	B260	12H15-	1	23



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
75.0	188	1.6	120	94.0	9.323	8	B260	12H15L	1	23
82.0	167	2.4	210	83.0	10.192	9	B260	12H15-	2	25
82.0	167	2.4	210	83.0	10.192	9	B260	12H15L	2	25
85.0	162	2.7	230	81.0	3.922	25	B260	09H41-	2	22
85.0	162	2.7	230	81.0	3.922	25	B260	09H41L	2	22
86.0	162	1.3	110	81.0	2.862	25	B130	09H41-	2	12
86.0	162	1.3	110	81.0	2.862	25	B130	09H41L	2	12
93.0	150	1.0	95.0	75.0	9.226	10	B260	12H15-	1	23
93.0	150	1.0	95.0	75.0	9.226	10	B260	12H15L	1	23
110	125	2.3	260	63.0	10.074	12	B260	12H15-	2	25
110	125	2.3	260	63.0	10.074	12	B260	12H15L	2	25
111	127	1.1	120	63.0	2.821	32	B130	09H41-	2	12
111	127	1.1	120	63.0	2.821	32	B130	09H41L	2	12
111	127	2.4	260	63.0	3.770	32	B260	09H41-	2	22
111	127	2.4	260	63.0	3.770	32	B260	09H41L	2	22
137	101	1.7	230	51.0	3.764	40	B260	09H41-	2	22
137	101	1.7	230	51.0	3.764	40	B260	09H41L	2	22
140	100	1.7	230	50.0	10.030	15	B260	12H15-	2	25
140	100	1.7	230	50.0	10.030	15	B260	12H15L	2	25
149	93.8	1.8	260	47.0	9.525	16	B260	12H15-	2	25
149	93.8	1.8	260	47.0	9.525	16	B260	12H15L	2	25
184	75.0	1.4	260	38.0	9.338	20	B260	12H15-	2	25
184	75.0	1.4	260	38.0	9.338	20	B260	12H15L	2	25
228	60.0	1.0	230	30.0	9.322	25	B260	12H15-	2	25
228	60.0	1.0	230	30.0	9.322	25	B260	12H15L	2	25

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1350	4.3	80.0	675	7.914	3	B260	12D41-	1	20
11.0	1350	4.3	80.0	675	7.914	3	B260	12D41L	1	20
12.0	1350	1.5	40.0	675	5.783	3	B130	12D41-	1	12
12.0	1350	1.5	40.0	675	5.783	3	B130	12D41L	1	12
15.0	1013	4.7	105	506	6.869	4	B260	12D41-	1	20
15.0	1013	4.7	105	506	6.869	4	B260	12D41L	1	20
16.0	1013	2.1	53.0	506	5.314	4	B130	12D41-	1	12
16.0	1013	2.1	53.0	506	5.314	4	B130	12D41L	1	12
18.0	810	5.1	130	405	6.458	5	B260	12D41-	1	20
18.0	810	5.1	130	405	6.458	5	B260	12D41L	1	20
20.0	810	2.3	67.0	405	5.160	5	B130	12D41-	1	12
20.0	810	2.3	67.0	405	5.160	5	B130	12D41L	1	12
26.0	579	4.8	135	289	6.101	7	B260	12D41-	1	20
26.0	579	4.8	135	289	6.101	7	B260	12D41L	1	20
28.0	579	2.3	65.0	289	5.025	7	B130	12D41-	1	12
28.0	579	2.3	65.0	289	5.025	7	B130	12D41L	1	12
30.0	450	4.2	210	225	6.892	9	B260	12D41-	2	22
30.0	450	4.2	210	225	6.892	9	B260	12D41L	2	22
31.0	506	3.7	120	253	6.023	8	B260	12D41-	1	20
31.0	506	3.7	120	253	6.023	8	B260	12D41L	1	20
32.0	506	1.6	50.0	253	4.994	8	B130	12D41-	1	12
32.0	506	1.6	50.0	253	4.994	8	B130	12D41L	1	12
35.0	450	2.5	130	225	5.286	9	B130	12D41-	2	13
35.0	450	2.5	130	225	5.286	9	B130	12D41L	2	13
36.0	338	5.4	260	169	6.774	12	B260	12D41-	2	22
36.0	338	5.4	260	169	6.774	12	B260	12D41L	2	22
40.0	405	2.4	95.0	203	5.926	10	B260	12D41-	1	20
40.0	405	2.4	95.0	203	5.926	10	B260	12D41L	1	20
47.0	338	2.4	120	169	5.243	12	B130	12D41-	2	13
47.0	338	2.4	120	169	5.243	12	B130	12D41L	2	13
52.0	270	3.8	230	135	6.730	15	B260	12D41-	2	22
52.0	270	3.8	230	135	6.730	15	B260	12D41L	2	22
55.0	253	4.1	260	127	6.225	16	B260	12D41-	2	22
55.0	253	4.1	260	127	6.225	16	B260	12D41L	2	22
59.0	270	1.9	110	135	5.226	15	B130	12D41-	2	13
59.0	270	1.9	110	135	5.226	15	B130	12D41L	2	13
63.0	253	1.9	120	127	5.015	16	B130	12D41-	2	13
63.0	253	1.9	120	127	5.015	16	B130	12D41L	2	13
73.0	203	3.3	260	101	6.038	20	B260	12D41-	2	22
73.0	203	3.3	260	101	6.038	20	B260	12D41L	2	22
79.0	203	1.5	120	101	4.968	20	B130	12D41-	2	13
79.0	203	1.5	120	101	4.968	20	B130	12D41L	2	13
98.0	162	1.1	110	81.0	4.962	25	B130	12D41-	2	13
98.0	162	1.1	110	81.0	4.962	25	B130	12D41L	2	13
98.0	162	2.4	230	81.0	6.022	25	B260	12D41-	2	22
98.0	162	2.4	230	81.0	6.022	25	B260	12D41L	2	22
125	127	2.1	260	63.0	5.870	32	B260	12D41-	2	22
125	127	2.1	260	63.0	5.870	32	B260	12D41L	2	22
155	101	1.5	230	51.0	5.864	40	B260	12D41-	2	22
155	101	1.5	230	51.0	5.864	40	B260	12D41L	2	22



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
7.4	2000	5.4	80.0	1000	5.814	3	B260	09H60-	1	20
7.4	2000	5.4	80.0	1000	5.814	3	B260	09H60L	1	20
8.5	2000	1.9	40.0	970	3.683	3	B130	09H60-	1	12
8.5	2000	1.9	40.0	970	3.683	3	B130	09H60L	1	12
9.2	1700	4.8	80.0	850	6.714	3	B260	09L51-	1	21
9.6	1500	5.9	105	750	4.769	4	B260	09H60-	1	20
9.6	1500	5.9	105	750	4.769	4	B260	09H60L	1	20
11.0	1500	2.6	53.0	750	3.214	4	B130	09H60-	1	12
11.0	1500	2.6	53.0	750	3.214	4	B130	09H60L	1	12
12.0	1350	4.1	80.0	675	6.714	3	B260	09L41-	1	21
12.0	1350	4.1	80.0	675	6.714	3	B260	09L41L	1	22
12.0	1275	5.2	105	638	5.669	4	B260	09L51-	1	21
14.0	1200	2.8	67.0	600	3.060	5	B130	09H60-	1	12
14.0	1200	2.8	67.0	600	3.060	5	B130	09H60L	1	12
15.0	1020	5.6	130	510	5.258	5	B260	09L51-	1	21
15.0	1013	4.5	105	506	5.669	4	B260	09L41-	1	21
15.0	1013	4.5	105	506	5.669	4	B260	09L41L	1	22
19.0	857	3.1	65.0	429	2.925	7	B130	09H60-	1	12
19.0	857	3.1	65.0	429	2.925	7	B130	09H60L	1	12
19.0	810	4.9	130	405	5.258	5	B260	09L41-	1	21
19.0	810	4.9	130	405	5.258	5	B260	09L41L	1	22
19.0	667	5.4	210	333	4.792	9	B260	09H60-	2	22
19.0	667	5.4	210	333	4.792	9	B260	09H60L	2	22
20.0	750	5.3	120	375	3.923	8	B260	09H60-	1	20
20.0	750	5.3	120	375	3.923	8	B260	09H60L	1	20
20.0	729	5.7	135	364	4.901	7	B260	09L51-	1	21
22.0	750	2.2	50.0	375	2.894	8	B130	09H60-	1	12
22.0	750	2.2	50.0	375	2.894	8	B130	09H60L	1	12
23.0	667	3.1	130	333	3.186	9	B130	09H60-	2	12
23.0	667	3.1	130	333	3.186	9	B130	09H60L	2	12
24.0	567	4.7	210	283	5.692	9	B260	09L51-	2	23
25.0	638	4.4	120	319	4.823	8	B260	09L51-	1	21
27.0	600	3.4	95.0	300	3.826	10	B260	09H60-	1	20
27.0	600	3.4	95.0	300	3.826	10	B260	09H60L	1	20
27.0	579	4.6	135	289	4.901	7	B260	09L41-	1	21
27.0	579	4.6	135	289	4.901	7	B260	09L41L	1	22
28.0	600	1.4	38.0	300	2.857	10	B130	09H60-	1	12
28.0	600	1.4	38.0	300	2.857	10	B130	09H60L	1	12
31.0	500	3.0	120	250	3.143	12	B130	09H60-	2	12
31.0	500	3.0	120	250	3.143	12	B130	09H60L	2	12
31.0	400	5.5	230	200	4.630	15	B260	09H60-	2	22
31.0	400	5.5	230	200	4.630	15	B260	09H60L	2	22
32.0	506	3.6	120	253	4.823	8	B260	09L41-	1	21
32.0	506	3.6	120	253	4.823	8	B260	09L41L	1	22
32.0	450	4.0	210	225	5.692	9	B260	09L41-	2	23
32.0	450	4.0	210	225	5.692	9	B260	09L41L	2	24
33.0	510	2.8	95.0	255	4.726	10	B260	09L51-	1	21
33.0	375	5.7	260	188	4.125	16	B260	09H60-	2	22
33.0	375	5.7	260	188	4.125	16	B260	09H60L	2	22
39.0	338	5.2	260	169	5.574	12	B260	09L41-	2	23
39.0	338	5.2	260	169	5.574	12	B260	09L41L	2	24

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
41.0	400	2.6	110	200	3.126	15	B130	09H60-	2	12
41.0	400	2.6	110	200	3.126	15	B130	09H60L	2	12
41.0	340	4.6	230	170	5.530	15	B260	09L51-	2	23
42.0	405	2.3	95.0	203	4.726	10	B260	09L41-	1	21
42.0	405	2.3	95.0	203	4.726	10	B260	09L41L	1	22
43.0	375	2.5	120	188	2.915	16	B130	09H60-	2	12
43.0	375	2.5	120	188	2.915	16	B130	09H60L	2	12
43.0	319	4.9	260	159	5.025	16	B260	09L51-	2	23
45.0	300	4.7	260	150	3.938	20	B260	09H60-	2	22
45.0	300	4.7	260	150	3.938	20	B260	09H60L	2	22
55.0	300	2.1	120	150	2.868	20	B130	09H60-	2	12
55.0	300	2.1	120	150	2.868	20	B130	09H60L	2	12
56.0	270	3.7	230	135	5.530	15	B260	09L41-	2	23
56.0	270	3.7	230	135	5.530	15	B260	09L41L	2	24
58.0	255	3.9	260	128	4.838	20	B260	09L51-	2	23
58.0	253	3.9	260	127	5.025	16	B260	09L41-	2	23
58.0	253	3.9	260	127	5.025	16	B260	09L41L	2	24
63.0	240	3.4	230	120	3.922	25	B260	09H60-	2	22
63.0	240	3.4	230	120	3.922	25	B260	09H60L	2	22
68.0	240	1.6	110	120	2.862	25	B130	09H60-	2	12
68.0	240	1.6	110	120	2.862	25	B130	09H60L	2	12
77.0	203	3.1	260	101	4.838	20	B260	09L41-	2	23
77.0	203	3.1	260	101	4.838	20	B260	09L41L	2	24
80.0	204	2.8	230	102	4.822	25	B260	09L51-	2	23
84.0	188	3.0	260	94.0	3.770	32	B260	09H60-	2	22
84.0	188	3.0	260	94.0	3.770	32	B260	09H60L	2	22
87.0	188	1.4	120	94.0	2.821	32	B130	09H60-	2	12
87.0	188	1.4	120	94.0	2.821	32	B130	09H60L	2	12
102	162	2.3	230	81.0	4.822	25	B260	09L41-	2	23
102	162	2.3	230	81.0	4.822	25	B260	09L41L	2	24
104	159	2.5	260	80.0	4.670	32	B260	09L51-	2	23
107	150	1.0	110	75.0	2.819	40	B130	09H60-	2	12
107	150	1.0	110	75.0	2.819	40	B130	09H60L	2	12
108	150	2.1	230	75.0	3.764	40	B260	09H60-	2	22
108	150	2.1	230	75.0	3.764	40	B260	09H60L	2	22
130	128	1.8	230	64.0	4.664	40	B260	09L51-	2	23
131	127	2.0	260	63.0	4.670	32	B260	09L41-	2	23
131	127	2.0	260	63.0	4.670	32	B260	09L41L	2	24
162	101	1.4	230	51.0	4.664	40	B260	09L41-	2	23
162	101	1.4	230	51.0	4.664	40	B260	09L41L	2	24



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
23.0	1000	2.6	80.0	500	11.214	3	B260	12H30L	1	23
30.0	750	2.8	105	375	10.169	4	B260	12H30L	1	23
37.0	600	3.0	130	300	9.758	5	B260	12H30L	1	23
52.0	429	2.6	135	214	9.401	7	B260	12H30L	1	23
60.0	375	2.0	120	188	9.323	8	B260	12H30L	1	23
65.0	333	2.5	210	167	10.192	9	B260	12H30L	2	25
74.0	300	1.3	95.0	150	9.226	10	B260	12H30L	1	23
84.0	250	2.9	260	125	10.074	12	B260	12H30L	2	25
112	200	2.1	230	100	10.030	15	B260	12H30L	2	25
119	188	2.2	260	94.0	9.525	16	B260	12H30L	2	25
147	150	1.8	260	75.0	9.338	20	B260	12H30L	2	25
182	120	1.3	230	60.0	9.322	25	B260	12H30L	2	25
233	93.8	1.1	260	47.0	9.170	32	B260	12H30L	2	25

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
21.0	1200	2.6	80.0	600	12.014	3	B260	14D36-	1	42
21.0	1175	2.6	80.0	588	11.214	3	B260	12H35-	1	23
28.0	900	2.8	105	450	10.969	4	B260	14D36-	1	42
28.0	881	2.8	105	441	10.169	4	B260	12H35-	1	23
34.0	720	3.0	130	360	10.558	5	B260	14D36-	1	42
34.0	705	3.1	130	353	9.758	5	B260	12H35-	1	23
38.0	650	1.7	80.0	325	14.514	3	B260	12L20-	1	26
38.0	650	1.7	80.0	325	14.514	3	B260	12L20L	1	26
49.0	514	2.7	135	257	10.201	7	B260	14D36-	1	42
49.0	504	2.7	135	252	9.401	7	B260	12H35-	1	23
51.0	488	1.9	105	244	13.469	4	B260	12L20-	1	26
51.0	488	1.9	105	244	13.469	4	B260	12L20L	1	26
56.0	450	2.1	120	225	10.123	8	B260	14D36-	1	42
56.0	441	2.1	120	220	9.323	8	B260	12H35-	1	23
61.0	400	2.5	210	200	10.992	9	B260	14D36-	2	44
61.0	392	2.5	210	196	10.192	9	B260	12H35-	2	25
63.0	390	2.1	130	195	13.058	5	B260	12L20-	1	26
63.0	390	2.1	130	195	13.058	5	B260	12L20L	1	26
70.0	360	1.4	95.0	180	10.026	10	B260	14D36-	1	42
70.0	353	1.4	95.0	176	9.226	10	B260	12H35-	1	23
78.0	300	3.1	260	150	10.874	12	B260	14D36-	2	44
78.0	294	3.1	260	147	10.074	12	B260	12H35-	2	25
89.0	279	1.5	135	139	12.701	7	B260	12L20-	1	26
89.0	279	1.5	135	139	12.701	7	B260	12L20L	1	26
102	244	1.2	120	122	12.623	8	B260	12L20-	1	26
102	244	1.2	120	122	12.623	8	B260	12L20L	1	26
104	240	2.2	230	120	10.830	15	B260	14D36-	2	44
104	235	2.2	230	118	10.030	15	B260	12H35-	2	25
110	225	2.3	260	113	10.325	16	B260	14D36-	2	44
110	220	2.3	260	110	9.525	16	B260	12H35-	2	25
113	217	1.7	210	108	13.492	9	B260	12L20-	2	28
113	217	1.7	210	108	13.492	9	B260	12L20L	2	28
138	180	1.9	260	90.0	10.138	20	B260	14D36-	2	44
138	176	1.9	260	88.0	9.338	20	B260	12H35-	2	25
151	163	1.7	260	81.0	13.374	12	B260	12L20-	2	28
151	163	1.7	260	81.0	13.374	12	B260	12L20L	2	28
171	144	1.4	230	72.0	10.122	25	B260	14D36-	2	44
171	141	1.4	230	71.0	9.322	25	B260	12H35-	2	25
188	130	1.2	230	65.0	13.330	15	B260	12L20-	2	28
188	130	1.2	230	65.0	13.330	15	B260	12L20L	2	28
201	122	1.3	260	61.0	12.825	16	B260	12L20-	2	28
201	122	1.3	260	61.0	12.825	16	B260	12L20L	2	28
218	113	1.2	260	56.0	9.970	32	B260	14D36-	2	44
218	110	1.2	260	55.0	9.170	32	B260	12H35-	2	25
248	97.5	1.1	260	49.0	12.638	20	B260	12L20-	2	28
248	97.5	1.1	260	49.0	12.638	20	B260	12L20L	2	28



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
31.0	1350	1.7	80.0	675	14.514	3	B260	12L41-	1	26
41.0	1013	1.9	105	506	13.469	4	B260	12L41-	1	26
52.0	810	2.0	130	405	13.058	5	B260	12L41-	1	26
72.0	579	1.9	135	289	12.701	7	B260	12L41-	1	26
83.0	506	1.5	120	253	12.623	8	B260	12L41-	1	26
92.0	450	1.6	210	225	13.492	9	B260	12L41-	2	28
123	338	2.1	260	169	13.374	12	B260	12L41-	2	28
153	270	1.5	230	135	13.330	15	B260	12L41-	2	28
164	253	1.6	260	127	12.825	16	B260	12L41-	2	28
202	203	1.3	260	101	12.638	20	B260	12L41-	2	28

Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
19.0	550	3.6	80.0	275	7.914	3	B260	12D17-	1	22
25.0	413	3.9	105	206	6.869	4	B260	12D17-	1	22
31.0	330	4.0	130	165	6.458	5	B260	12D17-	1	22
45.0	236	2.9	135	118	6.101	7	B260	12D17-	1	22
53.0	206	2.3	120	103	6.023	8	B260	12D17-	1	22
53.0	183	3.4	210	92.0	6.892	9	B260	12D17-	2	24
65.0	165	1.5	95.0	83.0	5.926	10	B260	12D17-	1	22
71.0	138	3.3	260	69.0	6.774	12	B260	12D17-	2	24
96.0	110	2.4	230	55.0	6.730	15	B260	12D17-	2	24
101	103	2.5	260	52.0	6.225	16	B260	12D17-	2	24
129	82.5	2.0	260	41.0	6.038	20	B260	12D17-	2	24
159	66.0	1.4	230	33.0	6.022	25	B260	12D17-	2	24
204	51.6	1.3	260	26.0	5.870	32	B260	12D17-	2	24

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	450	2.2	80.0	225	11.214	3	B260	12H14-	1	25
45.0	338	2.3	105	169	10.169	4	B260	12H14-	1	25
56.0	270	2.3	130	135	9.758	5	B260	12H14-	1	25
79.0	193	1.7	135	96.0	9.401	7	B260	12H14-	1	25
90.0	169	1.3	120	84.0	9.323	8	B260	12H14-	1	25
100	150	2.1	210	75.0	10.192	9	B260	12H14-	2	27
134	113	1.9	260	56.0	10.074	12	B260	12H14-	2	27
167	90.0	1.4	230	45.0	10.030	15	B260	12H14-	2	27
179	84.4	1.5	260	42.0	9.525	16	B260	12H14-	2	27
221	67.5	1.2	260	34.0	9.338	20	B260	12H14-	2	27

2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1175	3.2	80.0	588	7.914	3	B260	12D35-	1	22
22.0	881	3.6	105	441	6.869	4	B260	12D35-	1	22
27.0	705	3.8	130	353	6.458	5	B260	12D35-	1	22
38.0	504	3.4	135	252	6.101	7	B260	12D35-	1	22
45.0	441	2.7	120	220	6.023	8	B260	12D35-	1	22
46.0	392	3.1	210	196	6.892	9	B260	12D35-	2	24
56.0	353	1.7	95.0	176	5.926	10	B260	12D35-	1	22
58.0	294	3.9	260	147	6.774	12	B260	12D35-	2	24
80.0	235	2.8	230	118	6.730	15	B260	12D35-	2	24
84.0	220	2.9	260	110	6.225	16	B260	12D35-	2	24
110	176	2.4	260	88.0	6.038	20	B260	12D35-	2	24
137	141	1.7	230	71.0	6.022	25	B260	12D35-	2	24
175	110	1.5	260	55.0	5.870	32	B260	12D35-	2	24
216	88.1	1.1	230	44.0	5.864	40	B260	12D35-	2	24



Technical data

Bevel gearbox g780-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g780-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	1125	1.9	80.0	563	11.214	3	B260	12H34-	1	25
39.0	844	2.1	105	422	10.169	4	B260	12H34-	1	25
49.0	675	2.2	130	338	9.758	5	B260	12H34-	1	25
69.0	482	2.0	135	241	9.401	7	B260	12H34-	1	25
79.0	422	1.5	120	211	9.323	8	B260	12H34-	1	25
88.0	375	1.8	210	188	10.192	9	B260	12H34-	2	27
117	281	2.2	260	141	10.074	12	B260	12H34-	2	27
146	225	1.6	230	113	10.030	15	B260	12H34-	2	27
156	211	1.7	260	105	9.525	16	B260	12H34-	2	27
193	169	1.4	260	84.0	9.338	20	B260	12H34-	2	27

Technical data

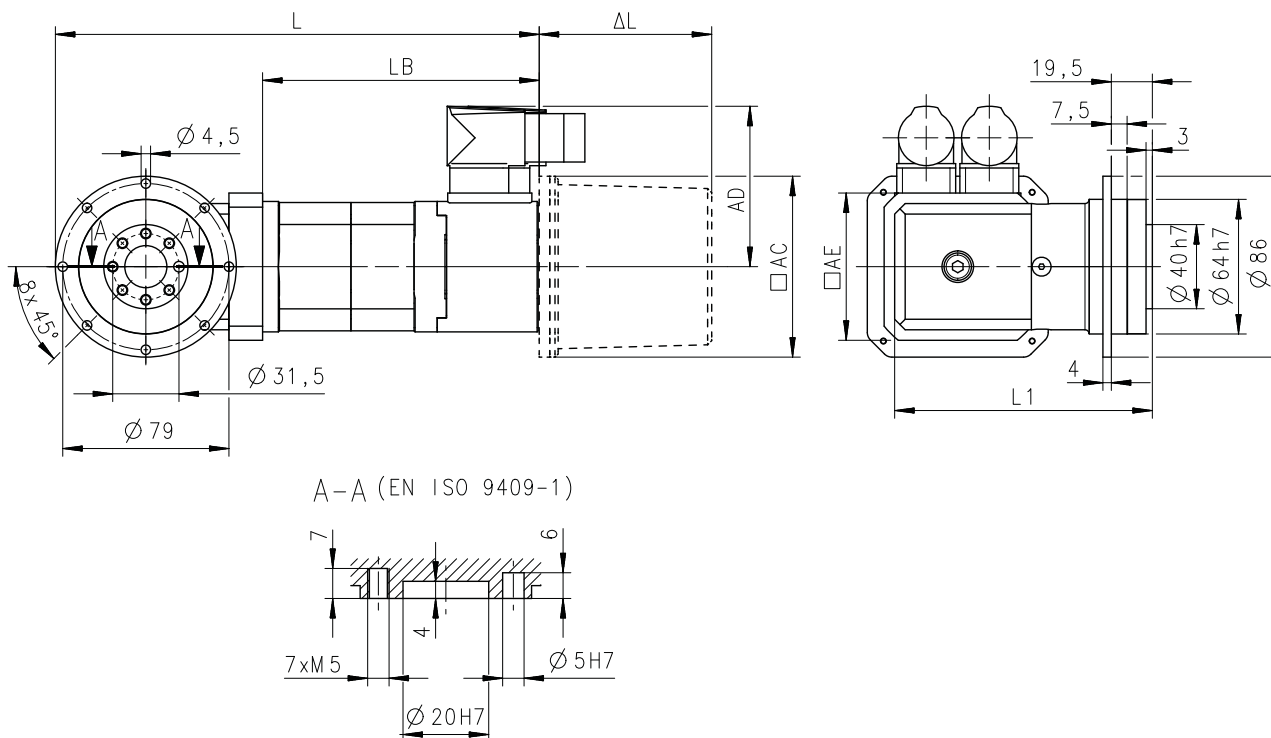
Bevel gearbox g780-B
Basic dimensions



Basic dimensions

g780-B44 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800819-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	110	110	110	110	110	110
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

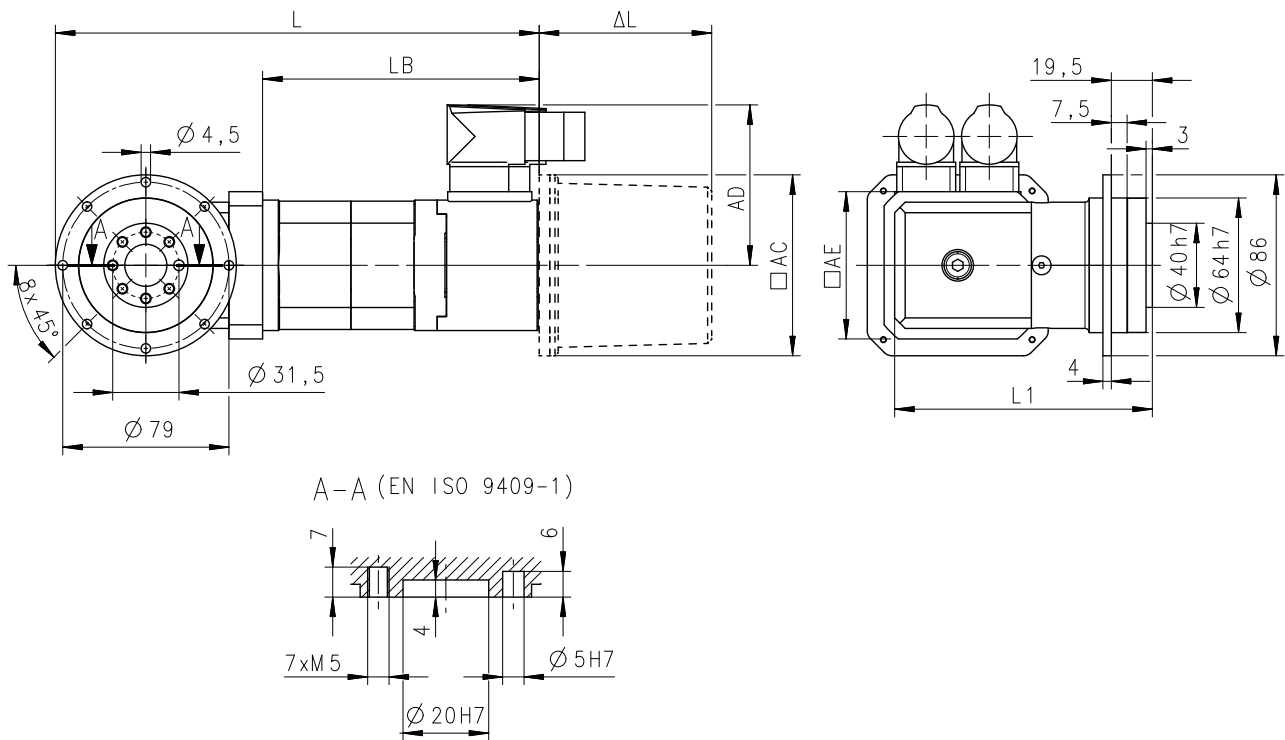


Technical data

Bevel gearbox g780-B
Basic dimensions

g780-B44 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800819-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	217.5	217.5	247.5	247.5	277.5	277.5
Gearbox length	L1	mm	122.5	122.5	122.5	122.5	122.5	122.5
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

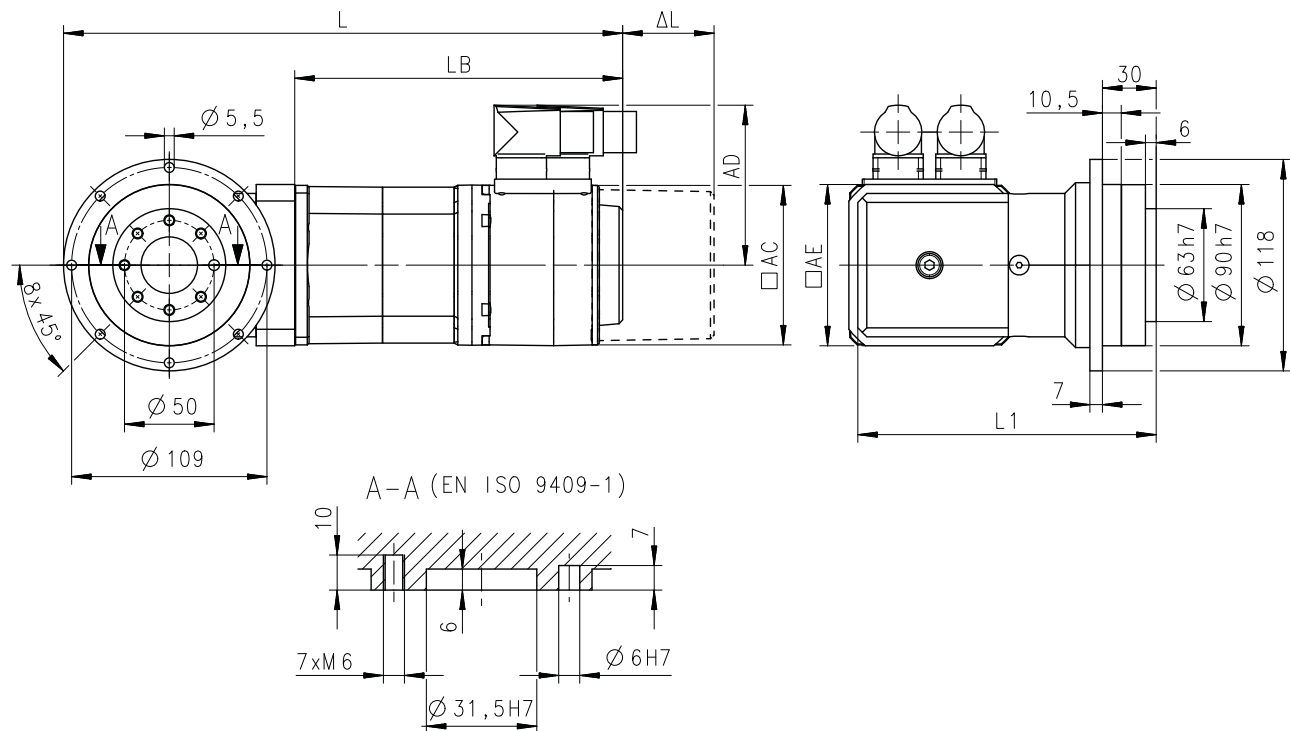
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B130 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 1-stage

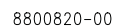


8800820-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	272	272	302	302
Gearbox length	L1	mm	149	149	149	149
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	80	80	80	80



Gearbox design: Flange output shaft, without foot with centering, 2-stage

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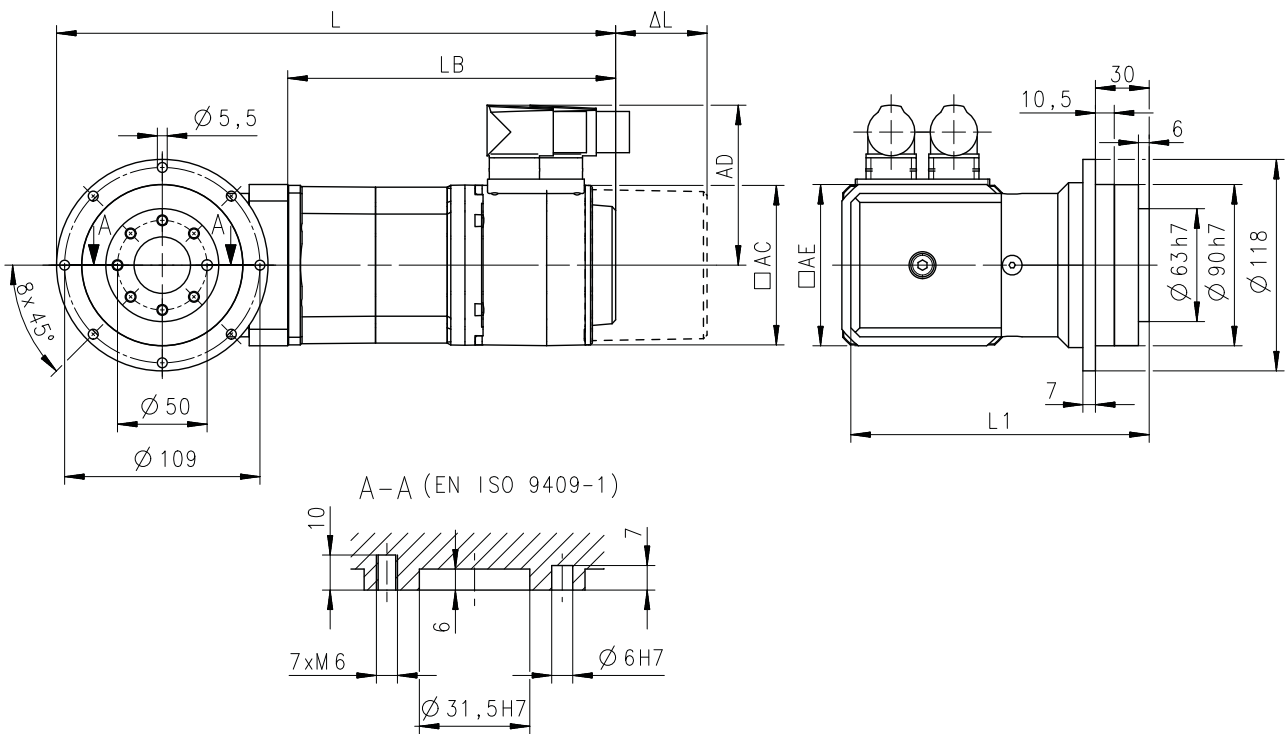
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B130 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 1-stage



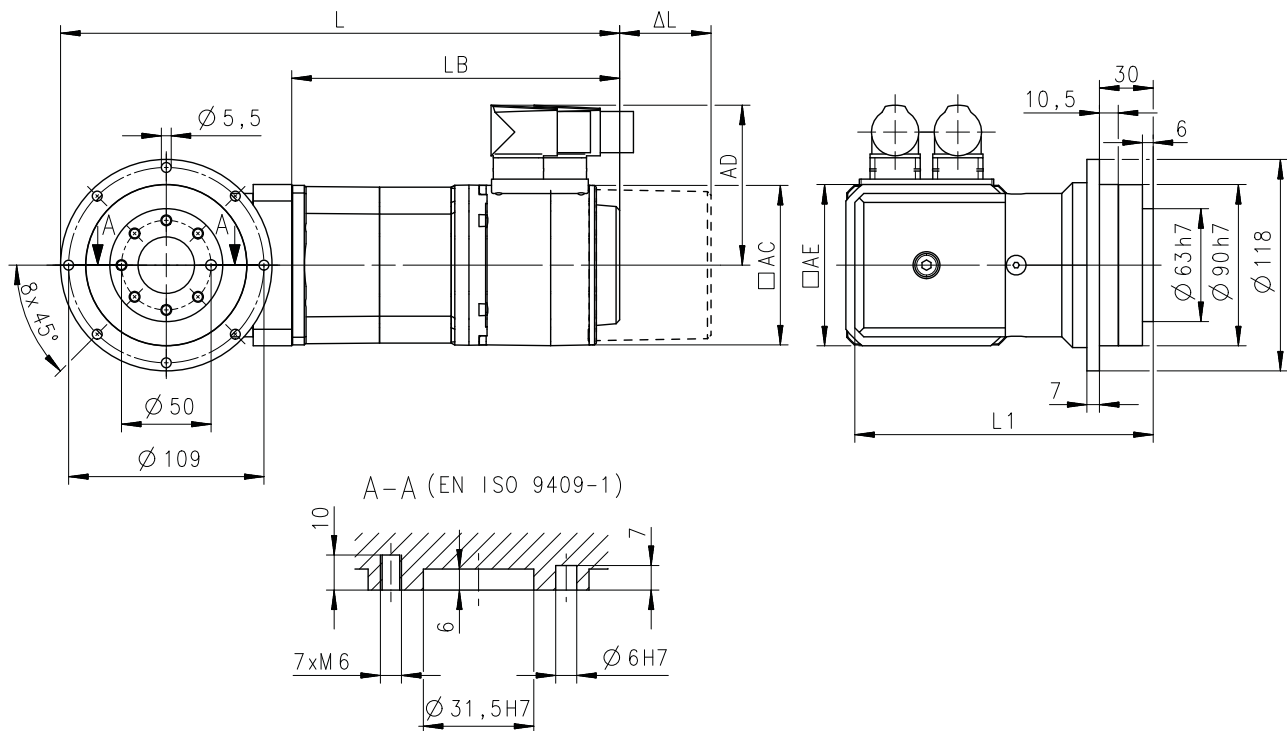
8800820-00

Motor			MCS 09					
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	149	149	149	149	149	149
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90



g780-B130 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800820-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	292	292	312	312	332	332
Gearbox length	L1	mm	166.5	166.5	166.5	166.5	166.5	166.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

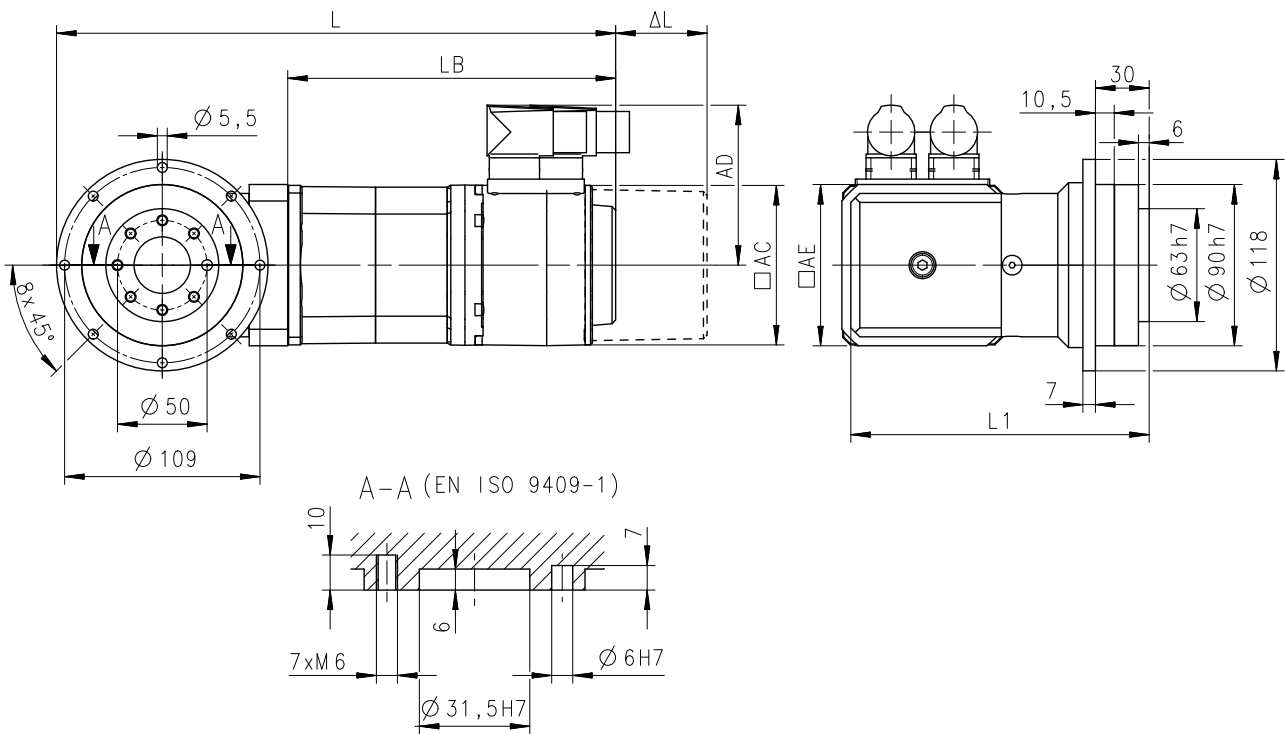
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B130 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 1-stage



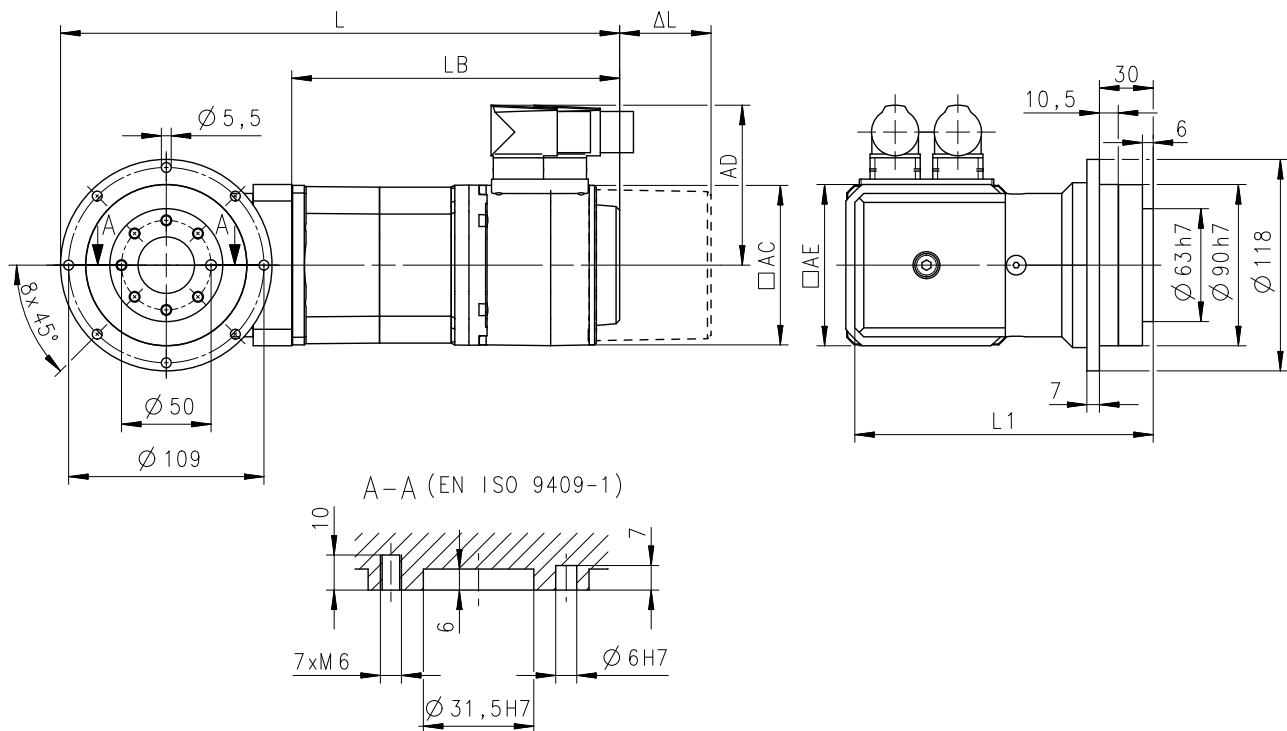
8800820-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	149	149
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g780-B130 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800820-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	308	308
Gearbox length	L1	mm	166.5	166.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

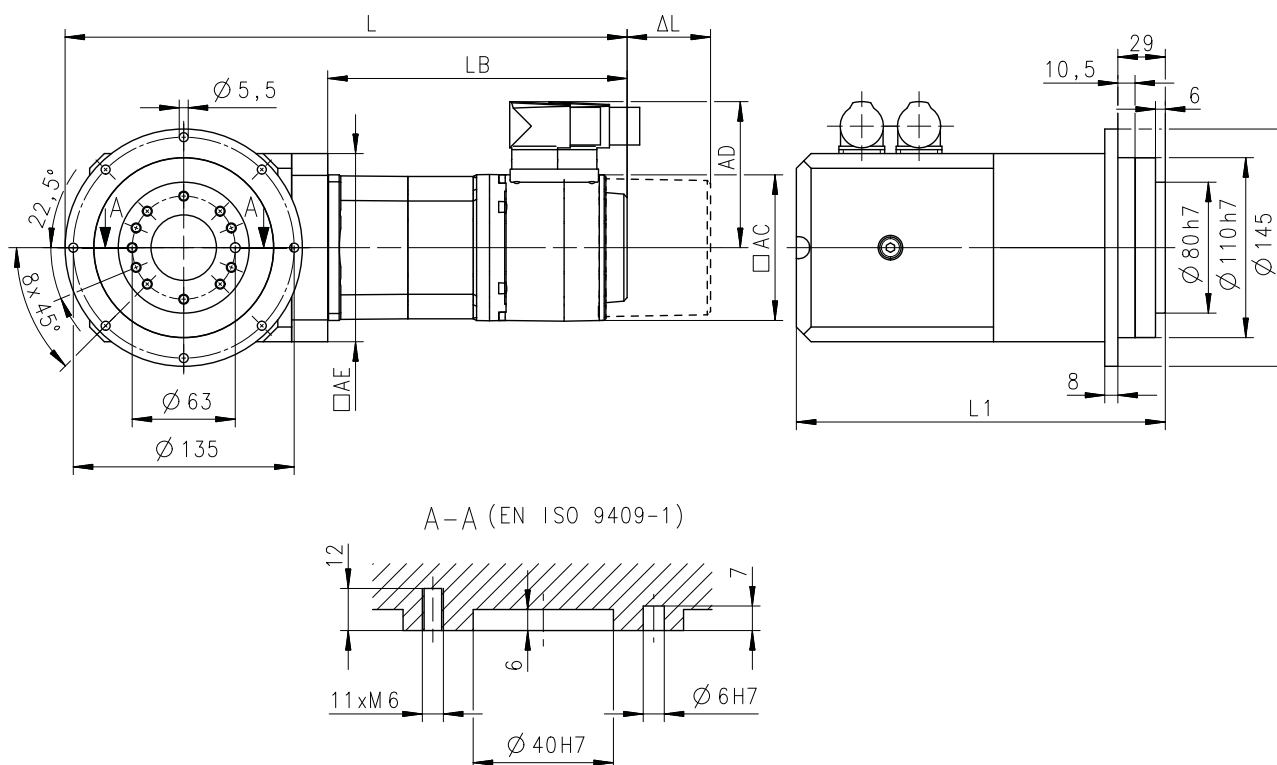
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B260 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800821-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	277.5	307.5	307.5	337.5	337.5
Gearbox length	L1	mm	225.5	225.5	225.5	225.5	225.5
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	115	115	115	115	115



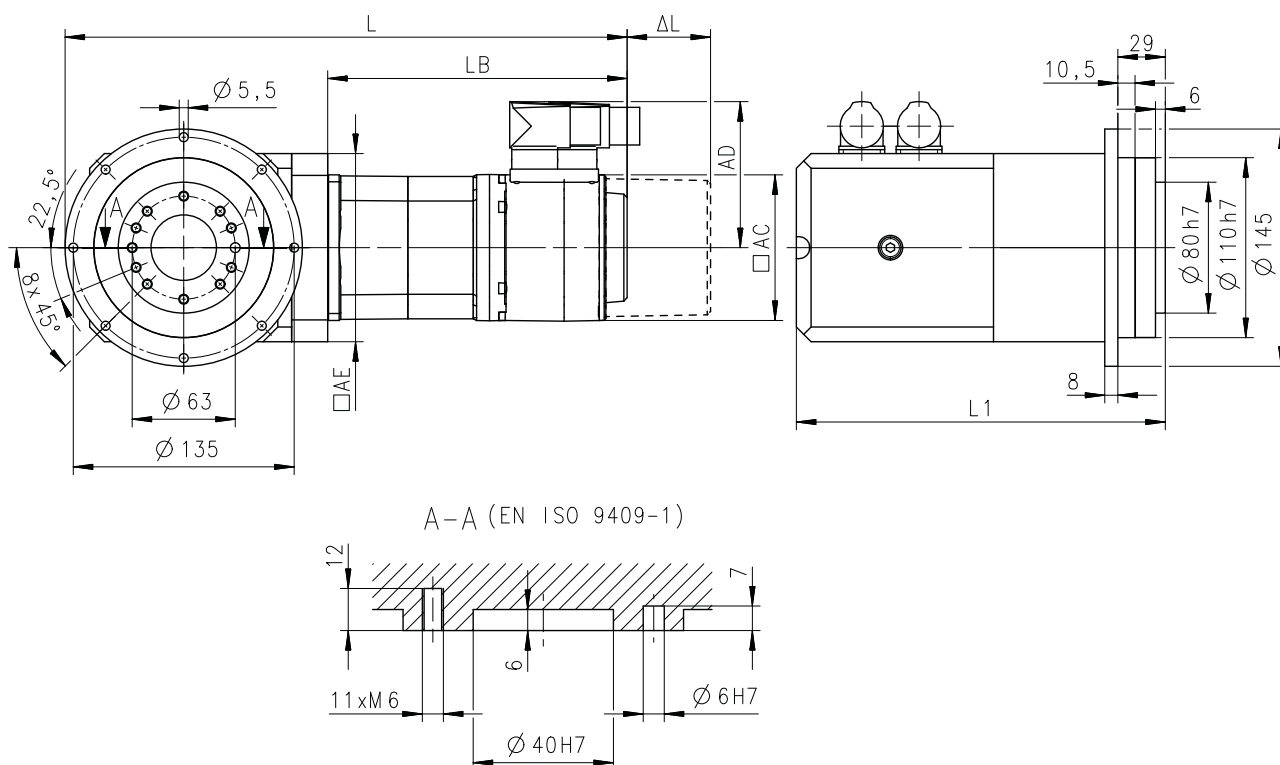
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B260 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage

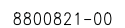


8800821-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	327.5	327.5	347.5	347.5	367.5	367.5	407.5	407.5
Gearbox length	L1	mm	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115



Gearbox design: Flange output shaft, without foot with centering, 1-stage

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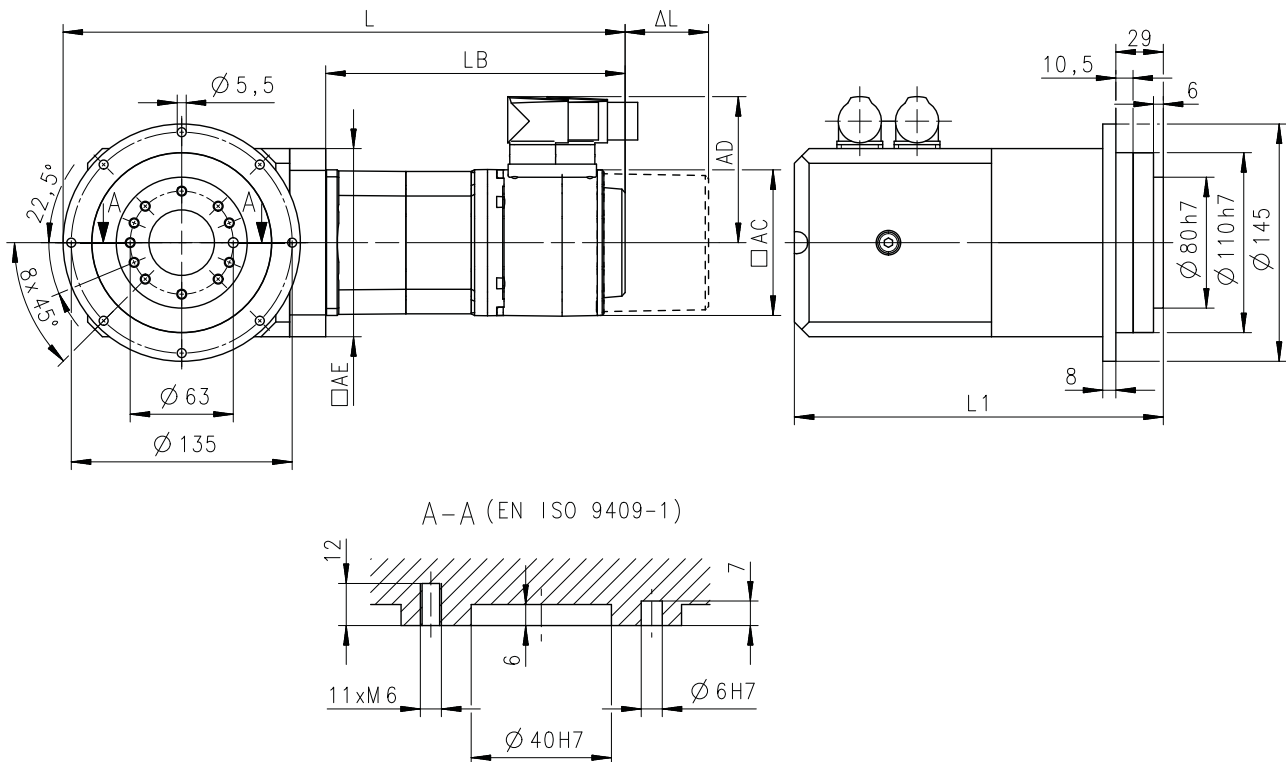
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B260 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage

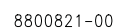


8800821-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	406.5	333.5	406.5	333.5	446.5	373.5	373.5	446.5	373.5	413.5	413.5
Gearbox length	L1	mm	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115



Gearbox design: Flange output shaft, without foot with centering, 1-stage

217

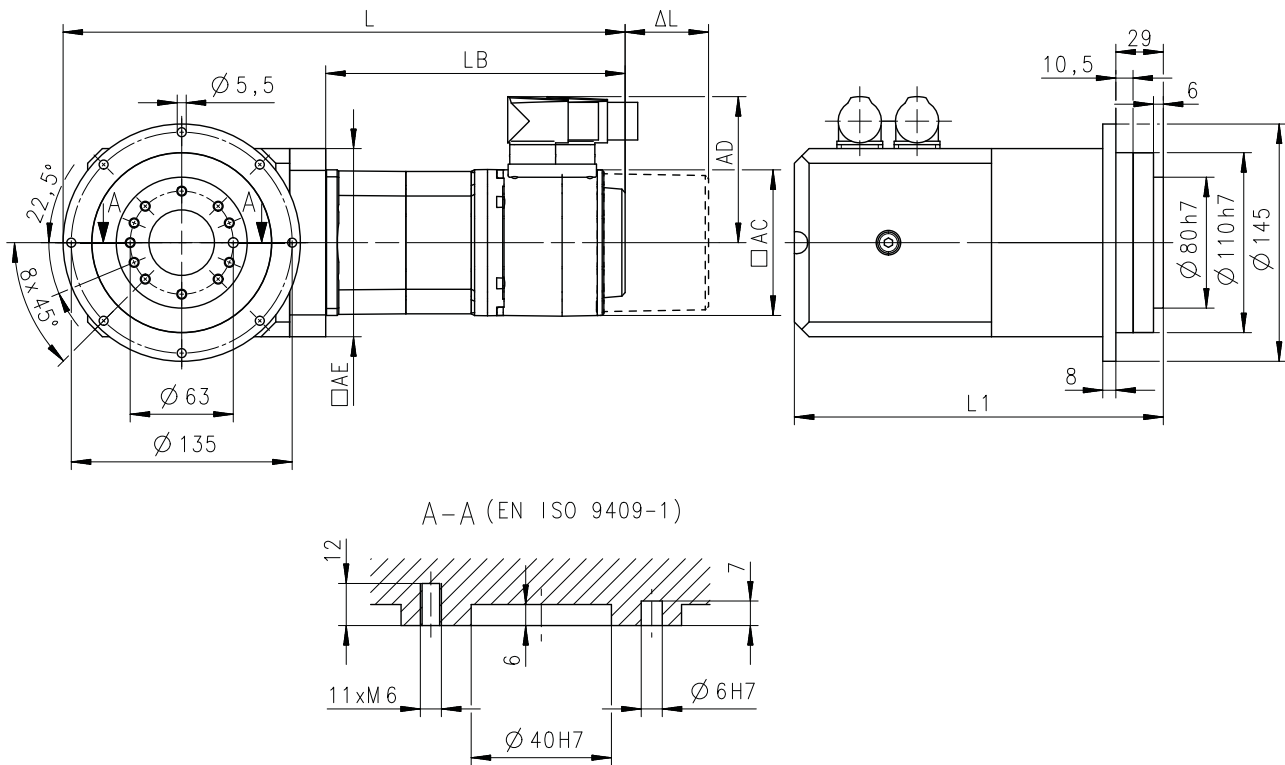
Technical data

Bevel gearbox g780-B
Basic dimensions



g780-B260 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800821-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	356.5	356.5
Gearbox length	L1	mm	225.5	225.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	140	140



Bevel gearbox g850-B

The modular system

g850-B bevel planetary gearbox with MCS synchronous servo motor

Gearbox		g850-B77	g850-B150	g850-B300	g850-B800
Min. motor assignment		MCS06	MCS06	MCS06	MCS09
Max. motor assignment		MCS12	MCS14	MCS19	MCS19
Technical data					
Max. output torque	Nm	77	150	300	800
Min. input torque	Nm	0.6	0.6	0.6	4.5
Max. input torque	Nm	17	42	72	72
Mounting position		Any			
Color		Primed Painted in RAL colors			
Surface and corrosion protection		OKS-G Different types of OKS			
Output shaft					
Solid shaft with featherkey	mm	16 x 28	22 x 36	32 x 58	40 x 80
Smooth solid shaft	mm	16 x 28	22 x 36	32 x 58	40 x 80
Shaft material		Steel			
Shaft sealing ring material		NBR			
Gearbox design		Without foot with centering			
Gearbox stages		1/2	1/2	1/2	1/2
Output flange	mm	70	90	115	142
Lubricant		Standard Food compatible			
Cooling		Self-ventilated Forced ventilated			
Motor connection		Connector Terminal box			
Holding brake		Without With			
Feedback					
Without functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder			
With functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder			
Temperature monitoring		MCS06: PT1000 temperature sensor MCS09 ... MCS19: PT1000 temperature sensor and 2x PTC thermistor			



Gearbox data

g850-B77, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	45.0	5	2
5	42.0	5	2
7	28.0	5	2
8	27.0	5	2
10	22.0	5	2

g850-B77, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	77.0	5	3
20	77.0	5	3
25	65.0	5	3
28	60.0	5	3
32	77.0	5	3
35	65.0	5	3
40	65.0	5	3
50	65.0	5	3
64	40.0	5	2
100	27.0	5	2

g850-B150, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	90.0	5	6
5	75.0	5	6
7	51.0	5	6
8	50.0	5	5
10	40.0	5	5

g850-B150, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	150	5	8
20	150	5	8
25	140	5	7
28	112	5	7
32	108	5	7
35	140	5	7
40	135	5	7
50	110	5	6
64	80.0	5	6
100	60.0	5	6



g850-B300, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	160	5	14
5	140	5	13
7	91.0	5	12
8	90.0	5	11
10	75.0	5	10

g850-B300, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	300	5	17
20	300	5	17
25	260	5	16
28	204	5	15
32	200	5	15
35	255	5	15
40	250	5	14
50	200	5	14
64	150	5	14
100	125	5	13

g850-B800, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	320	5	34
5	280	5	33
7	189	5	30
8	180	5	28
10	160	5	26

g850-B800, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	640	5	43
20	800	5	43
25	700	5	41
28	364	5	39
32	360	5	38
35	455	5	37
40	450	5	36
64	450	5	35
50	375	5	36
100	305	5	33

Technical data

Bevel gearbox g850-B
Radial forces and axial forces



Radial forces and axial forces

Gearbox			g850-B77	g850-B77	g850-B150	g850-B150	g850-B300	g850-B300	g850-B800	g850-B800
Number of stages	z		1	2	1	2	1	2	1	2
Bearing service life 20000 h										
Speed		rpm	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	3200	3200	5200	5500	6000	6000	12500	12500
Axial force	F_{ax}	N	4300	4400	5900	6400	7000	8000	14500	15000
Bearing service life 30000 h										
Speed		rpm	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	3200	3200	5200	4800	6000	5400	10900	11400
Axial force	F_{ax}	N	3700	3900	5200	5700	6100	7000	12000	13200
Max. radial force	$F_{rad, max}$	N	3200	3200	5200	5500	6000	6000	12500	12500
Max. axial force	$F_{ax, max}$	N	4300	4400	5900	6400	7000	8000	14500	15000



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.5	203	5.3	77.0	101	0.729	20	B77	06C41-	2	6.2
8.5	203	5.3	77.0	101	0.729	20	B77	06C41L	2	6.2
11.0	162	4.6	65.0	81.0	0.728	25	B77	06C41-	2	6.2
11.0	162	4.6	65.0	81.0	0.728	25	B77	06C41L	2	6.2
13.0	145	4.3	60.0	72.0	0.668	28	B77	06C41-	2	6.2
13.0	145	4.3	60.0	72.0	0.668	28	B77	06C41L	2	6.2
15.0	127	4.1	77.0	63.0	0.655	32	B77	06C41-	2	6.2
15.0	127	4.1	77.0	63.0	0.655	32	B77	06C41L	2	6.2
17.0	116	3.7	65.0	58.0	0.668	35	B77	06C41-	2	6.2
17.0	116	3.7	65.0	58.0	0.668	35	B77	06C41L	2	6.2
20.0	101	3.2	65.0	51.0	0.655	40	B77	06C41-	2	6.2
20.0	101	3.2	65.0	51.0	0.655	40	B77	06C41L	2	6.2
25.0	81.0	2.6	65.0	41.0	0.638	50	B77	06C41-	2	6.2
25.0	81.0	2.6	65.0	41.0	0.638	50	B77	06C41L	2	6.2
27.0	63.3	1.5	40.0	32.0	0.654	64	B77	06C41-	2	6.2
27.0	63.3	1.5	40.0	32.0	0.654	64	B77	06C41L	2	6.2
31.0	63.3	2.6	80.0	32.0	0.653	64	B150	06C41-	2	7.6
31.0	63.3	2.6	80.0	32.0	0.653	64	B150	06C41L	2	7.6
43.0	40.5	1.4	60.0	20.0	0.637	100	B150	06C41-	2	7.6
43.0	40.5	1.4	60.0	20.0	0.637	100	B150	06C41L	2	7.6

0.31 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
21.0	120	3.2	65.0	51.0	0.638	50	B77	06C60-	2	6.2
21.0	120	3.2	65.0	51.0	0.638	50	B77	06C60L	2	6.2
27.0	60.0	1.0	27.0	27.0	0.638	100	B77	06C60-	2	6.2
27.0	60.0	1.0	27.0	27.0	0.638	100	B77	06C60L	2	6.2
36.0	60.0	1.7	60.0	30.0	0.637	100	B150	06C60-	2	7.6
36.0	60.0	1.7	60.0	30.0	0.637	100	B150	06C60L	2	7.6

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.0	1013	5.2	45.0	506	0.878	4	B77	06F41-	1	5.7
4.0	1013	5.2	45.0	506	0.878	4	B77	06F41L	1	5.7
5.2	810	4.3	42.0	405	0.815	5	B77	06F41-	1	5.7
5.2	810	4.3	42.0	405	0.815	5	B77	06F41L	1	5.7
7.5	579	3.6	28.0	289	0.752	7	B77	06F41-	1	5.7
7.5	579	3.6	28.0	289	0.752	7	B77	06F41L	1	5.7
8.5	506	3.1	27.0	253	0.738	8	B77	06F41-	1	5.7
8.5	506	3.1	27.0	253	0.738	8	B77	06F41L	1	5.7
10.0	405	1.8	22.0	203	0.720	10	B77	06F41-	1	5.7
10.0	405	1.8	22.0	203	0.720	10	B77	06F41L	1	5.7
11.0	405	3.2	40.0	203	1.233	10	B150	06F41-	1	7.7
11.0	405	3.2	40.0	203	1.233	10	B150	06F41L	1	7.7
14.0	253	5.2	150	127	0.869	16	B150	06F41-	2	8.0
14.0	253	5.2	150	127	0.869	16	B150	06F41L	2	8.0
17.0	253	3.1	77.0	119	0.862	16	B77	06F41-	2	6.6
17.0	253	3.1	77.0	119	0.862	16	B77	06F41L	2	6.6
17.0	203	5.3	150	101	0.810	20	B150	06F41-	2	8.0
17.0	203	5.3	150	101	0.810	20	B150	06F41L	2	8.0
21.0	203	2.7	77.0	100	0.809	20	B77	06F41-	2	6.6
21.0	203	2.7	77.0	100	0.809	20	B77	06F41L	2	6.6
23.0	162	4.4	140	81.0	0.807	25	B150	06F41-	2	8.0
23.0	162	4.4	140	81.0	0.807	25	B150	06F41L	2	8.0
26.0	162	2.3	65.0	81.0	0.808	25	B77	06F41-	2	6.6
26.0	162	2.3	65.0	81.0	0.808	25	B77	06F41L	2	6.6
28.0	145	2.1	60.0	72.0	0.748	28	B77	06F41-	2	6.6
28.0	145	2.1	60.0	72.0	0.748	28	B77	06F41L	2	6.6
28.0	145	3.7	112	72.0	0.749	28	B150	06F41-	2	8.0
28.0	145	3.7	112	72.0	0.749	28	B150	06F41L	2	8.0
32.0	127	2.0	77.0	63.0	0.735	32	B77	06F41-	2	6.6
32.0	127	2.0	77.0	63.0	0.735	32	B77	06F41L	2	6.6
33.0	127	3.2	108	63.0	0.735	32	B150	06F41-	2	8.0
33.0	127	3.2	108	63.0	0.735	32	B150	06F41L	2	8.0
34.0	116	3.7	140	58.0	0.748	35	B150	06F41-	2	8.0
34.0	116	3.7	140	58.0	0.748	35	B150	06F41L	2	8.0
35.0	116	1.8	65.0	58.0	0.748	35	B77	06F41-	2	6.6
35.0	116	1.8	65.0	58.0	0.748	35	B77	06F41L	2	6.6
40.0	101	1.6	65.0	51.0	0.735	40	B77	06F41-	2	6.6
40.0	101	1.6	65.0	51.0	0.735	40	B77	06F41L	2	6.6
41.0	101	3.3	135	51.0	0.734	40	B150	06F41-	2	8.0
41.0	101	3.3	135	51.0	0.734	40	B150	06F41L	2	8.0
49.0	81.0	1.3	65.0	41.0	0.718	50	B77	06F41-	2	6.6
49.0	81.0	1.3	65.0	41.0	0.718	50	B77	06F41L	2	6.6
51.0	81.0	2.2	110	41.0	0.718	50	B150	06F41-	2	8.0
51.0	81.0	2.2	110	41.0	0.718	50	B150	06F41L	2	8.0
62.0	63.3	1.3	80.0	32.0	0.733	64	B150	06F41-	2	8.0
62.0	63.3	1.3	80.0	32.0	0.733	64	B150	06F41L	2	8.0
65.0	63.3	2.3	150	32.0	1.273	64	B300	06F41-	2	12
65.0	63.3	2.3	150	32.0	1.273	64	B300	06F41L	2	12
94.0	40.5	1.3	125	20.0	1.234	100	B300	06F41-	2	12
94.0	40.5	1.3	125	20.0	1.234	100	B300	06F41L	2	12



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
5.5	857	4.3	28.0	352	0.752	7	B77	06F60-	1	5.7
5.5	857	4.3	28.0	352	0.752	7	B77	06F60L	1	5.7
6.4	750	3.7	27.0	303	0.738	8	B77	06F60-	1	5.7
6.4	750	3.7	27.0	303	0.738	8	B77	06F60L	1	5.7
7.7	600	2.1	22.0	244	0.720	10	B77	06F60-	1	5.7
7.7	600	2.1	22.0	244	0.720	10	B77	06F60L	1	5.7
12.0	375	3.6	77.0	122	0.862	16	B77	06F60-	2	6.6
12.0	375	3.6	77.0	122	0.862	16	B77	06F60L	2	6.6
15.0	300	3.1	77.0	103	0.809	20	B77	06F60-	2	6.6
15.0	300	3.1	77.0	103	0.809	20	B77	06F60L	2	6.6
16.0	240	5.2	140	103	0.807	25	B150	06F60-	2	8.0
16.0	240	5.2	140	103	0.807	25	B150	06F60L	2	8.0
20.0	240	2.7	65.0	86.0	0.808	25	B77	06F60-	2	6.6
20.0	240	2.7	65.0	86.0	0.808	25	B77	06F60L	2	6.6
20.0	214	4.4	112	86.0	0.749	28	B150	06F60-	2	8.0
20.0	214	4.4	112	86.0	0.749	28	B150	06F60L	2	8.0
21.0	214	2.7	60.0	79.0	0.748	28	B77	06F60-	2	6.6
21.0	214	2.7	60.0	79.0	0.748	28	B77	06F60L	2	6.6
24.0	188	2.4	77.0	71.0	0.735	32	B77	06F60-	2	6.6
24.0	188	2.4	77.0	71.0	0.735	32	B77	06F60L	2	6.6
24.0	188	3.7	108	75.0	0.735	32	B150	06F60-	2	8.0
24.0	188	3.7	108	75.0	0.735	32	B150	06F60L	2	8.0
24.0	171	4.4	140	70.0	0.748	35	B150	06F60-	2	8.0
24.0	171	4.4	140	70.0	0.748	35	B150	06F60L	2	8.0
26.0	171	2.2	65.0	66.0	0.748	35	B77	06F60-	2	6.6
26.0	171	2.2	65.0	66.0	0.748	35	B77	06F60L	2	6.6
28.0	150	4.4	135	61.0	0.734	40	B150	06F60-	2	8.0
28.0	150	4.4	135	61.0	0.734	40	B150	06F60L	2	8.0
30.0	150	2.0	65.0	59.0	0.735	40	B77	06F60-	2	6.6
30.0	150	2.0	65.0	59.0	0.735	40	B77	06F60L	2	6.6
37.0	120	1.8	65.0	48.0	0.718	50	B77	06F60-	2	6.6
37.0	120	1.8	65.0	48.0	0.718	50	B77	06F60L	2	6.6
38.0	120	2.9	110	49.0	0.718	50	B150	06F60-	2	8.0
38.0	120	2.9	110	49.0	0.718	50	B150	06F60L	2	8.0
47.0	93.8	1.7	80.0	45.0	0.733	64	B150	06F60-	2	8.0
47.0	93.8	1.7	80.0	45.0	0.733	64	B150	06F60L	2	8.0
49.0	93.8	3.1	150	45.0	1.273	64	B300	06F60-	2	12
49.0	93.8	3.1	150	45.0	1.273	64	B300	06F60L	2	12
70.0	60.0	1.8	125	30.0	1.234	100	B300	06F60-	2	12
70.0	60.0	1.8	125	30.0	1.234	100	B300	06F60L	2	12

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
5.2	1013	4.2	45.0	495	0.958	4	B77	06I41-	1	6.4
5.2	1013	4.2	45.0	495	0.958	4	B77	06I41L	1	6.4
6.4	810	4.8	75.0	405	1.520	5	B150	06I41-	1	8.4
6.4	810	4.8	75.0	405	1.520	5	B150	06I41L	1	8.4
6.8	810	3.4	42.0	405	0.895	5	B77	06I41-	1	6.4
6.8	810	3.4	42.0	405	0.895	5	B77	06I41L	1	6.4
9.3	579	2.9	28.0	289	0.832	7	B77	06I41-	1	6.4
9.3	579	2.9	28.0	289	0.832	7	B77	06I41L	1	6.4
9.4	579	3.7	51.0	289	1.387	7	B150	06I41-	1	8.4
9.4	579	3.7	51.0	289	1.387	7	B150	06I41L	1	8.4
11.0	506	2.5	27.0	253	0.818	8	B77	06I41-	1	6.4
11.0	506	2.5	27.0	253	0.818	8	B77	06I41L	1	6.4
11.0	506	3.1	50.0	253	1.352	8	B150	06I41-	1	8.4
11.0	506	3.1	50.0	253	1.352	8	B150	06I41L	1	8.4
13.0	405	1.4	22.0	203	0.800	10	B77	06I41-	1	6.4
13.0	405	1.4	22.0	203	0.800	10	B77	06I41L	1	6.4
13.0	405	2.5	40.0	203	1.313	10	B150	06I41-	1	8.4
13.0	405	2.5	40.0	203	1.313	10	B150	06I41L	1	8.4
19.0	253	4.2	150	127	0.949	16	B150	06I41-	2	8.7
19.0	253	4.2	150	127	0.949	16	B150	06I41L	2	8.7
22.0	253	2.5	77.0	114	0.942	16	B77	06I41-	2	7.3
22.0	253	2.5	77.0	114	0.942	16	B77	06I41L	2	7.3
23.0	203	4.2	150	101	0.890	20	B150	06I41-	2	8.7
23.0	203	4.2	150	101	0.890	20	B150	06I41L	2	8.7
27.0	203	2.1	77.0	97.0	0.889	20	B77	06I41-	2	7.3
27.0	203	2.1	77.0	97.0	0.889	20	B77	06I41L	2	7.3
28.0	162	4.9	260	81.0	1.533	25	B300	06I41-	2	13
28.0	162	4.9	260	81.0	1.533	25	B300	06I41L	2	13
31.0	162	3.5	140	81.0	0.887	25	B150	06I41-	2	8.7
31.0	162	3.5	140	81.0	0.887	25	B150	06I41L	2	8.7
33.0	162	1.8	65.0	81.0	0.888	25	B77	06I41-	2	7.3
33.0	162	1.8	65.0	81.0	0.888	25	B77	06I41L	2	7.3
34.0	145	3.7	204	72.0	1.397	28	B300	06I41-	2	13
34.0	145	3.7	204	72.0	1.397	28	B300	06I41L	2	13
35.0	145	1.7	60.0	72.0	0.828	28	B77	06I41-	2	7.3
35.0	145	1.7	60.0	72.0	0.828	28	B77	06I41L	2	7.3
37.0	145	2.9	112	72.0	0.829	28	B150	06I41-	2	8.7
37.0	145	2.9	112	72.0	0.829	28	B150	06I41L	2	8.7
40.0	127	1.6	77.0	63.0	0.815	32	B77	06I41-	2	7.3
40.0	127	1.6	77.0	63.0	0.815	32	B77	06I41L	2	7.3
41.0	127	3.2	200	63.0	1.360	32	B300	06I41-	2	13
41.0	127	3.2	200	63.0	1.360	32	B300	06I41L	2	13
42.0	127	2.5	108	63.0	0.815	32	B150	06I41-	2	8.7
42.0	127	2.5	108	63.0	0.815	32	B150	06I41L	2	8.7
43.0	116	3.8	255	58.0	1.393	35	B300	06I41-	2	13
43.0	116	3.8	255	58.0	1.393	35	B300	06I41L	2	13
44.0	116	1.5	65.0	58.0	0.828	35	B77	06I41-	2	7.3
44.0	116	1.5	65.0	58.0	0.828	35	B77	06I41L	2	7.3
45.0	101	4.6	250	51.0	1.357	40	B300	06I41-	2	13
45.0	101	4.6	250	51.0	1.357	40	B300	06I41L	2	13
46.0	116	3.0	140	58.0	0.828	35	B150	06I41-	2	8.7



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
46.0	116	3.0	140	58.0	0.828	35	B150	06I41L	2	8.7
50.0	101	1.3	65.0	51.0	0.815	40	B77	06I41-	2	7.3
50.0	101	1.3	65.0	51.0	0.815	40	B77	06I41L	2	7.3
52.0	101	2.6	135	51.0	0.814	40	B150	06I41-	2	8.7
52.0	101	2.6	135	51.0	0.814	40	B150	06I41L	2	8.7
62.0	81.0	1.1	65.0	41.0	0.798	50	B77	06I41-	2	7.3
62.0	81.0	1.1	65.0	41.0	0.798	50	B77	06I41L	2	7.3
64.0	81.0	1.7	110	41.0	0.798	50	B150	06I41-	2	8.7
64.0	81.0	1.7	110	41.0	0.798	50	B150	06I41L	2	8.7
65.0	81.0	3.1	200	41.0	1.316	50	B300	06I41-	2	13
65.0	81.0	3.1	200	41.0	1.316	50	B300	06I41L	2	13
78.0	63.3	1.0	80.0	32.0	0.813	64	B150	06I41-	2	8.7
78.0	63.3	1.0	80.0	32.0	0.813	64	B150	06I41L	2	8.7
82.0	63.3	1.8	150	32.0	1.353	64	B300	06I41-	2	13
82.0	63.3	1.8	150	32.0	1.353	64	B300	06I41L	2	13
117	40.5	1.1	125	20.0	1.314	100	B300	06I41-	2	13
117	40.5	1.1	125	20.0	1.314	100	B300	06I41L	2	13

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.1	1500	4.6	45.0	505	0.958	4	B77	06I60-	1	6.4
4.1	1500	4.6	45.0	505	0.958	4	B77	06I60L	1	6.4
5.3	1200	3.8	42.0	429	0.895	5	B77	06I60-	1	6.4
5.3	1200	3.8	42.0	429	0.895	5	B77	06I60L	1	6.4
7.5	857	3.2	28.0	342	0.832	7	B77	06I60-	1	6.4
7.5	857	3.2	28.0	342	0.832	7	B77	06I60L	1	6.4
8.5	750	2.7	27.0	294	0.818	8	B77	06I60-	1	6.4
8.5	750	2.7	27.0	294	0.818	8	B77	06I60L	1	6.4
10.0	600	1.6	22.0	239	0.800	10	B77	06I60-	1	6.4
10.0	600	1.6	22.0	239	0.800	10	B77	06I60L	1	6.4
11.0	600	2.8	40.0	239	1.313	10	B150	06I60-	1	8.4
11.0	600	2.8	40.0	239	1.313	10	B150	06I60L	1	8.4
14.0	375	4.7	150	132	0.949	16	B150	06I60-	2	8.7
14.0	375	4.7	150	132	0.949	16	B150	06I60L	2	8.7
17.0	375	2.7	77.0	116	0.942	16	B77	06I60-	2	7.3
17.0	375	2.7	77.0	116	0.942	16	B77	06I60L	2	7.3
18.0	300	4.7	150	121	0.890	20	B150	06I60-	2	8.7
18.0	300	4.7	150	121	0.890	20	B150	06I60L	2	8.7
21.0	240	5.4	260	101	1.533	25	B300	06I60-	2	13
21.0	240	5.4	260	101	1.533	25	B300	06I60L	2	13
22.0	300	2.4	77.0	98.0	0.889	20	B77	06I60-	2	7.3
22.0	300	2.4	77.0	98.0	0.889	20	B77	06I60L	2	7.3
24.0	240	3.9	140	98.0	0.887	25	B150	06I60-	2	8.7
24.0	240	3.9	140	98.0	0.887	25	B150	06I60L	2	8.7
26.0	240	2.0	65.0	83.0	0.888	25	B77	06I60-	2	7.3
26.0	240	2.0	65.0	83.0	0.888	25	B77	06I60L	2	7.3
28.0	214	2.0	60.0	77.0	0.828	28	B77	06I60-	2	7.3
28.0	214	2.0	60.0	77.0	0.828	28	B77	06I60L	2	7.3
29.0	214	3.3	112	83.0	0.829	28	B150	06I60-	2	8.7
29.0	214	3.3	112	83.0	0.829	28	B150	06I60L	2	8.7
32.0	188	1.8	77.0	68.0	0.815	32	B77	06I60-	2	7.3
32.0	188	1.8	77.0	68.0	0.815	32	B77	06I60L	2	7.3
33.0	188	2.8	108	72.0	0.815	32	B150	06I60-	2	8.7
33.0	188	2.8	108	72.0	0.815	32	B150	06I60L	2	8.7
35.0	171	1.7	65.0	65.0	0.828	35	B77	06I60-	2	7.3
35.0	171	1.7	65.0	65.0	0.828	35	B77	06I60L	2	7.3
36.0	171	3.3	140	68.0	0.828	35	B150	06I60-	2	8.7
36.0	171	3.3	140	68.0	0.828	35	B150	06I60L	2	8.7
40.0	150	1.5	65.0	57.0	0.815	40	B77	06I60-	2	7.3
40.0	150	1.5	65.0	57.0	0.815	40	B77	06I60L	2	7.3
41.0	150	3.3	135	59.0	0.814	40	B150	06I60-	2	8.7
41.0	150	3.3	135	59.0	0.814	40	B150	06I60L	2	8.7
49.0	120	1.3	65.0	47.0	0.798	50	B77	06I60-	2	7.3
49.0	120	1.3	65.0	47.0	0.798	50	B77	06I60L	2	7.3
51.0	120	2.2	110	48.0	0.798	50	B150	06I60-	2	8.7
51.0	120	2.2	110	48.0	0.798	50	B150	06I60L	2	8.7
62.0	93.8	1.3	80.0	44.0	0.813	64	B150	06I60-	2	8.7
62.0	93.8	1.3	80.0	44.0	0.813	64	B150	06I60L	2	8.7
65.0	93.8	2.3	150	44.0	1.353	64	B300	06I60-	2	13
65.0	93.8	2.3	150	44.0	1.353	64	B300	06I60L	2	13
94.0	60.0	1.3	125	29.0	1.314	100	B300	06I60-	2	13



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
94.0	60.0	1.3	125	29.0	1.314	100	B300	06I60L	2	13

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.1	1013	3.9	90.0	462	2.487	4	B150	09D41-	1	9.8
8.1	1013	3.9	90.0	462	2.487	4	B150	09D41L	1	9.9
8.6	1013	2.7	45.0	455	1.758	4	B77	09D41-	1	7.8
8.6	1013	2.7	45.0	455	1.758	4	B77	09D41L	1	7.9
11.0	810	2.2	42.0	389	1.695	5	B77	09D41-	1	7.8
11.0	810	2.2	42.0	389	1.695	5	B77	09D41L	1	7.9
11.0	810	3.1	75.0	395	2.320	5	B150	09D41-	1	9.8
11.0	810	3.1	75.0	395	2.320	5	B150	09D41L	1	9.9
14.0	579	1.9	28.0	289	1.632	7	B77	09D41-	1	7.8
14.0	579	1.9	28.0	289	1.632	7	B77	09D41L	1	7.9
15.0	579	2.4	51.0	289	2.187	7	B150	09D41-	1	9.8
15.0	579	2.4	51.0	289	2.187	7	B150	09D41L	1	9.9
16.0	506	1.6	27.0	253	1.618	8	B77	09D41-	1	7.8
16.0	506	1.6	27.0	253	1.618	8	B77	09D41L	1	7.9
17.0	506	2.0	50.0	253	2.152	8	B150	09D41-	1	9.8
17.0	506	2.0	50.0	253	2.152	8	B150	09D41L	1	9.9
20.0	405	1.7	40.0	203	2.113	10	B150	09D41-	1	9.8
20.0	405	1.7	40.0	203	2.113	10	B150	09D41L	1	9.9
30.0	253	3.9	300	121	2.519	16	B300	09D41-	2	14
30.0	253	3.9	300	121	2.519	16	B300	09D41L	2	14
33.0	253	1.6	77.0	106	1.742	16	B77	09D41-	2	8.7
33.0	253	1.6	77.0	106	1.742	16	B77	09D41L	2	8.8
33.0	253	2.7	150	117	1.749	16	B150	09D41-	2	10
33.0	253	2.7	150	117	1.749	16	B150	09D41L	2	10
37.0	203	3.9	300	101	2.341	20	B300	09D41-	2	14
37.0	203	3.9	300	101	2.341	20	B300	09D41L	2	14
41.0	203	1.4	77.0	90.0	1.689	20	B77	09D41-	2	8.7
41.0	203	1.4	77.0	90.0	1.689	20	B77	09D41L	2	8.8
41.0	203	2.8	150	101	1.690	20	B150	09D41-	2	10
41.0	203	2.8	150	101	1.690	20	B150	09D41L	2	10
49.0	162	3.2	260	81.0	2.333	25	B300	09D41-	2	14
49.0	162	3.2	260	81.0	2.333	25	B300	09D41L	2	14
50.0	162	1.2	65.0	78.0	1.688	25	B77	09D41-	2	8.7
50.0	162	1.2	65.0	78.0	1.688	25	B77	09D41L	2	8.8
52.0	162	2.3	140	81.0	1.687	25	B150	09D41-	2	10
52.0	162	2.3	140	81.0	1.687	25	B150	09D41L	2	10
54.0	145	1.1	60.0	72.0	1.628	28	B77	09D41-	2	8.7
54.0	145	1.1	60.0	72.0	1.628	28	B77	09D41L	2	8.8
57.0	145	1.9	112	72.0	1.629	28	B150	09D41-	2	10
57.0	145	1.9	112	72.0	1.629	28	B150	09D41L	2	10
59.0	145	2.4	204	72.0	2.197	28	B300	09D41-	2	14
59.0	145	2.4	204	72.0	2.197	28	B300	09D41L	2	14
62.0	127	1.1	77.0	63.0	1.615	32	B77	09D41-	2	8.7
62.0	127	1.1	77.0	63.0	1.615	32	B77	09D41L	2	8.8
64.0	127	1.6	108	63.0	1.615	32	B150	09D41-	2	10
64.0	127	1.6	108	63.0	1.615	32	B150	09D41L	2	10
66.0	127	2.1	200	63.0	2.160	32	B300	09D41-	2	14
66.0	127	2.1	200	63.0	2.160	32	B300	09D41L	2	14
70.0	116	1.9	140	58.0	1.628	35	B150	09D41-	2	10
70.0	116	1.9	140	58.0	1.628	35	B150	09D41L	2	10
72.0	116	2.5	255	58.0	2.193	35	B300	09D41-	2	14



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
72.0	116	2.5	255	58.0	2.193	35	B300	09D41L	2	14
79.0	101	1.7	135	51.0	1.614	40	B150	09D41-	2	10
79.0	101	1.7	135	51.0	1.614	40	B150	09D41L	2	10
80.0	101	3.0	250	51.0	2.157	40	B300	09D41-	2	14
80.0	101	3.0	250	51.0	2.157	40	B300	09D41L	2	14
98.0	81.0	1.1	110	41.0	1.598	50	B150	09D41-	2	10
98.0	81.0	1.1	110	41.0	1.598	50	B150	09D41L	2	10
100	81.0	2.0	200	41.0	2.116	50	B300	09D41-	2	14
100	81.0	2.0	200	41.0	2.116	50	B300	09D41L	2	14
125	63.3	1.2	150	32.0	2.153	64	B300	09D41-	2	14
125	63.3	1.2	150	32.0	2.153	64	B300	09D41L	2	14

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.2	1500	4.4	90.0	475	2.487	4	B150	09D60-	1	9.8
6.2	1500	4.4	90.0	475	2.487	4	B150	09D60L	1	9.9
6.6	1500	3.1	45.0	467	1.758	4	B77	09D60-	1	7.8
6.6	1500	3.1	45.0	467	1.758	4	B77	09D60L	1	7.9
8.1	1200	3.5	75.0	404	2.320	5	B150	09D60-	1	9.8
8.1	1200	3.5	75.0	404	2.320	5	B150	09D60L	1	9.9
8.5	1200	2.5	42.0	399	1.695	5	B77	09D60-	1	7.8
8.5	1200	2.5	42.0	399	1.695	5	B77	09D60L	1	7.9
11.0	857	2.2	28.0	327	1.632	7	B77	09D60-	1	7.8
11.0	857	2.2	28.0	327	1.632	7	B77	09D60L	1	7.9
11.0	857	2.8	51.0	322	2.187	7	B150	09D60-	1	9.8
11.0	857	2.8	51.0	322	2.187	7	B150	09D60L	1	9.9
13.0	750	1.8	27.0	281	1.618	8	B77	09D60-	1	7.8
13.0	750	1.8	27.0	281	1.618	8	B77	09D60L	1	7.9
13.0	750	2.3	50.0	276	2.152	8	B150	09D60-	1	9.8
13.0	750	2.3	50.0	276	2.152	8	B150	09D60L	1	9.9
15.0	600	1.1	22.0	231	1.600	10	B77	09D60-	1	7.8
15.0	600	1.1	22.0	231	1.600	10	B77	09D60L	1	7.9
16.0	600	1.9	40.0	232	2.113	10	B150	09D60-	1	9.8
16.0	600	1.9	40.0	232	2.113	10	B150	09D60L	1	9.9
19.0	488	4.4	160	244	9.875	4	B300	12D20-	1	18
19.0	488	4.4	160	244	9.875	4	B300	12D20L	1	18
21.0	488	1.4	45.0	244	4.895	4	B77	12D20-	1	10
21.0	488	1.4	45.0	244	4.895	4	B77	12D20L	1	10
21.0	488	2.0	90.0	244	5.387	4	B150	12D20-	1	12
21.0	488	2.0	90.0	244	5.387	4	B150	12D20L	1	12
22.0	375	4.5	300	124	2.519	16	B300	09D60-	2	14
22.0	375	4.5	300	124	2.519	16	B300	09D60L	2	14
25.0	390	3.5	140	195	9.366	5	B300	12D20-	1	18
25.0	390	3.5	140	195	9.366	5	B300	12D20L	1	18
25.0	375	3.1	150	120	1.749	16	B150	09D60-	2	10
25.0	375	3.1	150	120	1.749	16	B150	09D60L	2	10
26.0	390	1.2	42.0	195	4.833	5	B77	12D20-	1	10
26.0	390	1.2	42.0	195	4.833	5	B77	12D20L	1	10
26.0	390	1.6	75.0	195	5.220	5	B150	12D20-	1	12
26.0	390	1.6	75.0	195	5.220	5	B150	12D20L	1	12
26.0	375	1.8	77.0	108	1.742	16	B77	09D60-	2	8.7
26.0	375	1.8	77.0	108	1.742	16	B77	09D60L	2	8.8
28.0	300	4.5	300	114	2.341	20	B300	09D60-	2	14
28.0	300	4.5	300	114	2.341	20	B300	09D60L	2	14
31.0	300	3.1	150	110	1.690	20	B150	09D60-	2	10
31.0	300	3.1	150	110	1.690	20	B150	09D60L	2	10
32.0	300	1.6	77.0	92.0	1.689	20	B77	09D60-	2	8.7
32.0	300	1.6	77.0	92.0	1.689	20	B77	09D60L	2	8.8
34.0	279	2.7	91.0	139	8.951	7	B300	12D20-	1	18
34.0	279	2.7	91.0	139	8.951	7	B300	12D20L	1	18
35.0	279	1.3	51.0	139	5.087	7	B150	12D20-	1	12
35.0	279	1.3	51.0	139	5.087	7	B150	12D20L	1	12
37.0	240	3.6	260	94.0	2.333	25	B300	09D60-	2	14
37.0	240	3.6	260	94.0	2.333	25	B300	09D60L	2	14
39.0	244	2.3	90.0	122	8.879	8	B300	12D20-	1	18



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	244	2.3	90.0	122	8.879	8	B300	12D20L	1	18
39.0	240	1.4	65.0	79.0	1.688	25	B77	09D60-	2	8.7
39.0	240	1.4	65.0	79.0	1.688	25	B77	09D60L	2	8.8
40.0	244	1.1	50.0	122	5.052	8	B150	12D20-	1	12
40.0	244	1.1	50.0	122	5.052	8	B150	12D20L	1	12
40.0	240	2.6	140	91.0	1.687	25	B150	09D60-	2	10
40.0	240	2.6	140	91.0	1.687	25	B150	09D60L	2	10
42.0	214	1.3	60.0	74.0	1.628	28	B77	09D60-	2	8.7
42.0	214	1.3	60.0	74.0	1.628	28	B77	09D60L	2	8.8
44.0	214	2.2	112	78.0	1.629	28	B150	09D60-	2	10
44.0	214	2.2	112	78.0	1.629	28	B150	09D60L	2	10
45.0	214	2.8	204	77.0	2.197	28	B300	09D60-	2	14
45.0	214	2.8	204	77.0	2.197	28	B300	09D60L	2	14
47.0	195	1.6	75.0	98.0	8.767	10	B300	12D20-	1	18
47.0	195	1.6	75.0	98.0	8.767	10	B300	12D20L	1	18
48.0	188	1.2	77.0	64.0	1.615	32	B77	09D60-	2	8.7
48.0	188	1.2	77.0	64.0	1.615	32	B77	09D60L	2	8.8
50.0	188	1.9	108	69.0	1.615	32	B150	09D60-	2	10
50.0	188	1.9	108	69.0	1.615	32	B150	09D60L	2	10
52.0	188	2.3	200	68.0	2.160	32	B300	09D60-	2	14
52.0	188	2.3	200	68.0	2.160	32	B300	09D60L	2	14
53.0	171	1.1	65.0	62.0	1.628	35	B77	09D60-	2	8.7
53.0	171	1.1	65.0	62.0	1.628	35	B77	09D60L	2	8.8
55.0	171	2.2	140	64.0	1.628	35	B150	09D60-	2	10
55.0	171	2.2	140	64.0	1.628	35	B150	09D60L	2	10
56.0	171	2.8	255	63.0	2.193	35	B300	09D60-	2	14
56.0	171	2.8	255	63.0	2.193	35	B300	09D60L	2	14
59.0	150	3.7	250	59.0	2.157	40	B300	09D60-	2	14
59.0	150	3.7	250	59.0	2.157	40	B300	09D60L	2	14
60.0	150	1.0	65.0	55.0	1.615	40	B77	09D60-	2	8.7
60.0	150	1.0	65.0	55.0	1.615	40	B77	09D60L	2	8.8
62.0	150	2.2	135	56.0	1.614	40	B150	09D60-	2	10
62.0	150	2.2	135	56.0	1.614	40	B150	09D60L	2	10
68.0	122	4.5	640	61.0	10.387	16	B800	12D20-	2	29
68.0	122	4.5	640	61.0	10.387	16	B800	12D20L	2	29
77.0	120	1.4	110	46.0	1.598	50	B150	09D60-	2	10
77.0	120	1.4	110	46.0	1.598	50	B150	09D60L	2	10
78.0	120	2.6	200	48.0	2.116	50	B300	09D60-	2	14
78.0	120	2.6	200	48.0	2.116	50	B300	09D60L	2	14
82.0	122	1.4	150	61.0	4.887	16	B150	12D20-	2	12
82.0	122	1.4	150	61.0	4.887	16	B150	12D20L	2	12
82.0	122	2.0	300	61.0	5.419	16	B300	12D20-	2	16
82.0	122	2.0	300	61.0	5.419	16	B300	12D20L	2	16
84.0	97.5	4.5	800	49.0	10.212	20	B800	12D20-	2	29
84.0	97.5	4.5	800	49.0	10.212	20	B800	12D20L	2	29
98.0	93.8	1.5	150	43.0	2.153	64	B300	09D60-	2	14
98.0	93.8	1.5	150	43.0	2.153	64	B300	09D60L	2	14
101	97.5	1.4	150	49.0	4.828	20	B150	12D20-	2	12
101	97.5	1.4	150	49.0	4.828	20	B150	12D20L	2	12
103	97.5	2.0	300	49.0	5.241	20	B300	12D20-	2	16
103	97.5	2.0	300	49.0	5.241	20	B300	12D20L	2	16
114	78.0	3.6	700	39.0	9.582	25	B800	12D20-	2	29

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
114	78.0	3.6	700	39.0	9.582	25	B800	12D20L	2	29
125	78.0	1.1	140	39.0	4.825	25	B150	12D20-	2	12
125	78.0	1.1	140	39.0	4.825	25	B150	12D20L	2	12
128	78.0	1.7	260	39.0	5.233	25	B300	12D20-	2	16
128	78.0	1.7	260	39.0	5.233	25	B300	12D20L	2	16
136	69.6	2.7	364	35.0	9.088	28	B800	12D20-	2	29
136	69.6	2.7	364	35.0	9.088	28	B800	12D20L	2	29
140	69.6	1.3	204	35.0	5.097	28	B300	12D20-	2	16
140	69.6	1.3	204	35.0	5.097	28	B300	12D20L	2	16
153	60.9	2.4	360	30.0	8.982	32	B800	12D20-	2	29
153	60.9	2.4	360	30.0	8.982	32	B800	12D20L	2	29
158	60.9	1.1	200	30.0	5.060	32	B300	12D20-	2	16
158	60.9	1.1	200	30.0	5.060	32	B300	12D20L	2	16
169	55.7	2.7	455	28.0	9.062	35	B800	12D20-	2	29
169	55.7	2.7	455	28.0	9.062	35	B800	12D20L	2	29
173	55.7	1.3	255	28.0	5.093	35	B300	12D20-	2	16
173	55.7	1.3	255	28.0	5.093	35	B300	12D20L	2	16
191	48.8	2.4	450	24.0	8.963	40	B800	12D20-	2	29
191	48.8	2.4	450	24.0	8.963	40	B800	12D20L	2	29
198	48.8	1.3	250	24.0	5.057	40	B300	12D20-	2	16
198	48.8	1.3	250	24.0	5.057	40	B300	12D20L	2	16
231	39.0	1.6	375	20.0	8.824	50	B800	12D20-	2	29
231	39.0	1.6	375	20.0	8.824	50	B800	12D20L	2	29
303	30.5	1.5	450	15.0	8.947	64	B800	12D20-	2	29
303	30.5	1.5	450	15.0	8.947	64	B800	12D20L	2	29



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	938	2.9	90.0	434	2.887	4	B150	09F38-	1	11
11.0	938	2.9	90.0	434	2.887	4	B150	09F38L	1	11
12.0	938	2.1	45.0	430	2.158	4	B77	09F38-	1	8.7
12.0	938	2.1	45.0	430	2.158	4	B77	09F38L	1	8.8
15.0	750	1.7	42.0	369	2.095	5	B77	09F38-	1	8.7
15.0	750	1.7	42.0	369	2.095	5	B77	09F38L	1	8.8
15.0	750	2.4	75.0	374	2.720	5	B150	09F38-	1	11
15.0	750	2.4	75.0	374	2.720	5	B150	09F38L	1	11
19.0	536	1.4	28.0	268	2.032	7	B77	09F38-	1	8.7
19.0	536	1.4	28.0	268	2.032	7	B77	09F38L	1	8.8
20.0	536	1.8	51.0	268	2.587	7	B150	09F38-	1	11
20.0	536	1.8	51.0	268	2.587	7	B150	09F38L	1	11
22.0	469	1.2	27.0	234	2.018	8	B77	09F38-	1	8.7
22.0	469	1.2	27.0	234	2.018	8	B77	09F38L	1	8.8
23.0	469	1.5	50.0	234	2.552	8	B150	09F38-	1	11
23.0	469	1.5	50.0	234	2.552	8	B150	09F38L	1	11
28.0	375	1.3	40.0	188	2.513	10	B150	09F38-	1	11
28.0	375	1.3	40.0	188	2.513	10	B150	09F38L	1	11
43.0	234	3.0	300	112	2.919	16	B300	09F38-	2	15
43.0	234	3.0	300	112	2.919	16	B300	09F38L	2	15
45.0	234	1.2	77.0	101	2.142	16	B77	09F38-	2	9.6
45.0	234	1.2	77.0	101	2.142	16	B77	09F38L	2	9.7
46.0	234	2.1	150	109	2.149	16	B150	09F38-	2	11
46.0	234	2.1	150	109	2.149	16	B150	09F38L	2	11
54.0	188	3.0	300	94.0	2.741	20	B300	09F38-	2	15
54.0	188	3.0	300	94.0	2.741	20	B300	09F38L	2	15
56.0	188	1.1	77.0	86.0	2.089	20	B77	09F38-	2	9.6
56.0	188	1.1	77.0	86.0	2.089	20	B77	09F38L	2	9.7
57.0	188	2.1	150	94.0	2.090	20	B150	09F38-	2	11
57.0	188	2.1	150	94.0	2.090	20	B150	09F38L	2	11
71.0	150	1.7	140	75.0	2.087	25	B150	09F38-	2	11
71.0	150	1.7	140	75.0	2.087	25	B150	09F38L	2	11
71.0	150	2.4	260	75.0	2.733	25	B300	09F38-	2	15
71.0	150	2.4	260	75.0	2.733	25	B300	09F38L	2	15
76.0	134	1.5	112	67.0	2.029	28	B150	09F38-	2	11
76.0	134	1.5	112	67.0	2.029	28	B150	09F38L	2	11
79.0	134	1.8	204	67.0	2.597	28	B300	09F38-	2	15
79.0	134	1.8	204	67.0	2.597	28	B300	09F38L	2	15
86.0	117	1.3	108	59.0	2.015	32	B150	09F38-	2	11
86.0	117	1.3	108	59.0	2.015	32	B150	09F38L	2	11
89.0	117	1.6	200	59.0	2.560	32	B300	09F38-	2	15
89.0	117	1.6	200	59.0	2.560	32	B300	09F38L	2	15
94.0	107	1.5	140	54.0	2.028	35	B150	09F38-	2	11
94.0	107	1.5	140	54.0	2.028	35	B150	09F38L	2	11
98.0	107	1.9	255	54.0	2.593	35	B300	09F38-	2	15
98.0	107	1.9	255	54.0	2.593	35	B300	09F38L	2	15
107	93.8	1.3	135	47.0	2.014	40	B150	09F38-	2	11
107	93.8	1.3	135	47.0	2.014	40	B150	09F38L	2	11
112	93.8	2.2	250	47.0	2.557	40	B300	09F38-	2	15
112	93.8	2.2	250	47.0	2.557	40	B300	09F38L	2	15
135	75.0	1.5	200	38.0	2.516	50	B300	09F38-	2	15

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
135	75.0	1.5	200	38.0	2.516	50	B300	09F38L	2	15
171	58.6	2.6	450	27.0	6.447	64	B800	09F38-	2	27
171	58.6	2.6	450	27.0	6.447	64	B800	09F38L	2	27
242	37.5	1.3	305	18.0	6.307	100	B800	09F38-	2	27
242	37.5	1.3	305	18.0	6.307	100	B800	09F38L	2	27

1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	375	2.8	160	188	13.975	4	B300	14D15-	1	40
35.0	375	1.3	90.0	188	10.765	4	B150	14D15-	1	34
43.0	300	2.3	140	150	13.466	5	B300	14D15-	1	40
44.0	300	1.1	75.0	150	10.598	5	B150	14D15-	1	34
57.0	214	1.6	91.0	107	13.051	7	B300	14D15-	1	40
66.0	188	1.4	90.0	94.0	12.979	8	B300	14D15-	1	40
129	93.8	2.9	640	47.0	14.487	16	B800	14D15-	2	51
138	93.8	1.3	300	47.0	10.797	16	B300	14D15-	2	39
162	75.0	2.9	800	38.0	14.312	20	B800	14D15-	2	51
173	75.0	1.3	300	38.0	10.619	20	B300	14D15-	2	39
211	60.0	2.3	700	30.0	13.682	25	B800	14D15-	2	51
214	60.0	1.1	260	30.0	10.611	25	B300	14D15-	2	39
227	53.6	1.6	364	27.0	13.188	28	B800	14D15-	2	51
256	46.9	1.4	360	23.0	13.082	32	B800	14D15-	2	51
283	42.9	1.6	455	21.0	13.162	35	B800	14D15-	2	51
320	37.5	1.4	450	19.0	13.063	40	B800	14D15-	2	51



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.7	1500	3.3	90.0	446	2.887	4	B150	09F60-	1	11
8.7	1500	3.3	90.0	446	2.887	4	B150	09F60L	1	11
9.0	1500	2.3	45.0	440	2.158	4	B77	09F60-	1	8.7
9.0	1500	2.3	45.0	440	2.158	4	B77	09F60L	1	8.8
11.0	1200	1.9	42.0	377	2.095	5	B77	09F60-	1	8.7
11.0	1200	1.9	42.0	377	2.095	5	B77	09F60L	1	8.8
11.0	1200	2.7	75.0	383	2.720	5	B150	09F60-	1	11
11.0	1200	2.7	75.0	383	2.720	5	B150	09F60L	1	11
15.0	857	1.6	28.0	317	2.032	7	B77	09F60-	1	8.7
15.0	857	1.6	28.0	317	2.032	7	B77	09F60L	1	8.8
15.0	857	2.1	51.0	311	2.587	7	B150	09F60-	1	11
15.0	857	2.1	51.0	311	2.587	7	B150	09F60L	1	11
17.0	750	1.4	27.0	272	2.018	8	B77	09F60-	1	8.7
17.0	750	1.4	27.0	272	2.018	8	B77	09F60L	1	8.8
17.0	750	1.7	50.0	267	2.552	8	B150	09F60-	1	11
17.0	750	1.7	50.0	267	2.552	8	B150	09F60L	1	11
21.0	600	1.4	40.0	226	2.513	10	B150	09F60-	1	11
21.0	600	1.4	40.0	226	2.513	10	B150	09F60L	1	11
33.0	375	3.3	300	116	2.919	16	B300	09F60-	2	15
33.0	375	3.3	300	116	2.919	16	B300	09F60L	2	15
35.0	375	1.4	77.0	103	2.142	16	B77	09F60-	2	9.6
35.0	375	1.4	77.0	103	2.142	16	B77	09F60L	2	9.7
35.0	375	2.3	150	112	2.149	16	B150	09F60-	2	11
35.0	375	2.3	150	112	2.149	16	B150	09F60L	2	11
41.0	300	3.3	300	106	2.741	20	B300	09F60-	2	15
41.0	300	3.3	300	106	2.741	20	B300	09F60L	2	15
43.0	300	1.2	77.0	88.0	2.089	20	B77	09F60-	2	9.6
43.0	300	1.2	77.0	88.0	2.089	20	B77	09F60L	2	9.7
44.0	300	2.4	150	103	2.090	20	B150	09F60-	2	11
44.0	300	2.4	150	103	2.090	20	B150	09F60L	2	11
52.0	240	1.0	65.0	76.0	2.088	25	B77	09F60-	2	9.6
52.0	240	1.0	65.0	76.0	2.088	25	B77	09F60L	2	9.7
53.0	240	2.7	260	89.0	2.733	25	B300	09F60-	2	15
53.0	240	2.7	260	89.0	2.733	25	B300	09F60L	2	15
55.0	240	2.0	140	86.0	2.087	25	B150	09F60-	2	11
55.0	240	2.0	140	86.0	2.087	25	B150	09F60L	2	11
59.0	214	1.6	112	75.0	2.029	28	B150	09F60-	2	11
59.0	214	1.6	112	75.0	2.029	28	B150	09F60L	2	11
61.0	214	2.1	204	74.0	2.597	28	B300	09F60-	2	15
61.0	214	2.1	204	74.0	2.597	28	B300	09F60L	2	15
67.0	188	1.4	108	66.0	2.015	32	B150	09F60-	2	11
67.0	188	1.4	108	66.0	2.015	32	B150	09F60L	2	11
69.0	188	1.8	200	65.0	2.560	32	B300	09F60-	2	15
69.0	188	1.8	200	65.0	2.560	32	B300	09F60L	2	15
73.0	171	1.7	140	62.0	2.028	35	B150	09F60-	2	11
73.0	171	1.7	140	62.0	2.028	35	B150	09F60L	2	11
76.0	171	2.1	255	61.0	2.593	35	B300	09F60-	2	15
76.0	171	2.1	255	61.0	2.593	35	B300	09F60L	2	15
83.0	150	1.6	135	54.0	2.014	40	B150	09F60-	2	11
83.0	150	1.6	135	54.0	2.014	40	B150	09F60L	2	11
85.0	150	2.8	250	56.0	2.557	40	B300	09F60-	2	15

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
85.0	150	2.8	250	56.0	2.557	40	B300	09F60L	2	15
102	120	1.1	110	44.0	1.998	50	B150	09F60-	2	11
102	120	1.1	110	44.0	1.998	50	B150	09F60L	2	11
104	120	1.9	200	46.0	2.516	50	B300	09F60-	2	15
104	120	1.9	200	46.0	2.516	50	B300	09F60L	2	15
131	93.8	1.2	150	43.0	2.553	64	B300	09F60-	2	15
131	93.8	1.2	150	43.0	2.553	64	B300	09F60L	2	15



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
14.0	1013	1.6	45.0	408	2.558	4	B77	09H41-	1	9.6
14.0	1013	1.6	45.0	408	2.558	4	B77	09H41L	1	9.7
14.0	1013	2.4	90.0	411	3.287	4	B150	09H41-	1	12
14.0	1013	2.4	90.0	411	3.287	4	B150	09H41L	1	12
18.0	810	1.3	42.0	352	2.495	5	B77	09H41-	1	9.6
18.0	810	1.3	42.0	352	2.495	5	B77	09H41L	1	9.7
18.0	810	1.9	75.0	357	3.120	5	B150	09H41-	1	12
18.0	810	1.9	75.0	357	3.120	5	B150	09H41L	1	12
24.0	579	1.2	28.0	289	2.432	7	B77	09H41-	1	9.6
24.0	579	1.2	28.0	289	2.432	7	B77	09H41L	1	9.7
24.0	579	1.5	51.0	289	2.987	7	B150	09H41-	1	12
24.0	579	1.5	51.0	289	2.987	7	B150	09H41L	1	12
28.0	506	1.2	50.0	253	2.952	8	B150	09H41-	1	12
28.0	506	1.2	50.0	253	2.952	8	B150	09H41L	1	12
34.0	405	1.0	40.0	203	2.913	10	B150	09H41-	1	12
34.0	405	1.0	40.0	203	2.913	10	B150	09H41L	1	12
37.0	375	2.6	160	188	13.175	4	B300	12H15-	1	21
37.0	375	2.6	160	188	13.175	4	B300	12H15L	1	21
38.0	375	1.2	90.0	188	8.687	4	B150	12H15-	1	15
38.0	375	1.2	90.0	188	8.687	4	B150	12H15L	1	15
47.0	300	2.1	140	150	12.666	5	B300	12H15-	1	21
47.0	300	2.1	140	150	12.666	5	B300	12H15L	1	21
56.0	253	2.4	300	105	3.319	16	B300	09H41-	2	16
56.0	253	2.4	300	105	3.319	16	B300	09H41L	2	16
57.0	253	1.7	150	102	2.549	16	B150	09H41-	2	12
57.0	253	1.7	150	102	2.549	16	B150	09H41L	2	12
62.0	214	1.5	91.0	107	12.251	7	B300	12H15-	1	21
62.0	214	1.5	91.0	107	12.251	7	B300	12H15L	1	21
69.0	203	2.4	300	97.0	3.141	20	B300	09H41-	2	16
69.0	203	2.4	300	97.0	3.141	20	B300	09H41L	2	16
70.0	203	1.7	150	94.0	2.490	20	B150	09H41-	2	12
70.0	203	1.7	150	94.0	2.490	20	B150	09H41L	2	12
71.0	188	1.3	90.0	94.0	12.179	8	B300	12H15-	1	21
71.0	188	1.3	90.0	94.0	12.179	8	B300	12H15L	1	21
86.0	162	1.4	140	80.0	2.487	25	B150	09H41-	2	12
86.0	162	1.4	140	80.0	2.487	25	B150	09H41L	2	12
88.0	162	1.9	260	81.0	3.133	25	B300	09H41-	2	16
88.0	162	1.9	260	81.0	3.133	25	B300	09H41L	2	16
94.0	145	1.2	112	71.0	2.429	28	B150	09H41-	2	12
94.0	145	1.2	112	71.0	2.429	28	B150	09H41L	2	12
97.0	145	1.5	204	70.0	2.997	28	B300	09H41-	2	16
97.0	145	1.5	204	70.0	2.997	28	B300	09H41L	2	16
109	127	1.2	200	61.0	2.960	32	B300	09H41-	2	16
109	127	1.2	200	61.0	2.960	32	B300	09H41L	2	16
116	116	1.2	140	58.0	2.428	35	B150	09H41-	2	12
116	116	1.2	140	58.0	2.428	35	B150	09H41L	2	12
120	116	1.5	255	58.0	2.993	35	B300	09H41-	2	16
120	116	1.5	255	58.0	2.993	35	B300	09H41L	2	16
131	101	1.0	135	50.0	2.414	40	B150	09H41-	2	12
131	101	1.0	135	50.0	2.414	40	B150	09H41L	2	12
137	101	1.8	250	51.0	2.957	40	B300	09H41-	2	16

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
137	101	1.8	250	51.0	2.957	40	B300	09H41L	2	16
143	93.8	2.7	640	47.0	13.687	16	B800	12H15-	2	32
143	93.8	2.7	640	47.0	13.687	16	B800	12H15L	2	32
150	93.8	1.2	300	47.0	8.719	16	B300	12H15-	2	19
150	93.8	1.2	300	47.0	8.719	16	B300	12H15L	2	19
165	81.0	1.2	200	41.0	2.916	50	B300	09H41-	2	16
165	81.0	1.2	200	41.0	2.916	50	B300	09H41L	2	16
179	75.0	2.7	800	38.0	13.512	20	B800	12H15-	2	32
179	75.0	2.7	800	38.0	13.512	20	B800	12H15L	2	32
188	75.0	1.2	300	38.0	8.541	20	B300	12H15-	2	19
188	75.0	1.2	300	38.0	8.541	20	B300	12H15L	2	19
209	63.3	2.2	450	27.0	6.847	64	B800	09H41-	2	28
209	63.3	2.2	450	27.0	6.847	64	B800	09H41L	2	28
230	60.0	2.2	700	30.0	12.882	25	B800	12H15-	2	32
230	60.0	2.2	700	30.0	12.882	25	B800	12H15L	2	32
246	53.6	1.5	364	27.0	12.388	28	B800	12H15-	2	32
246	53.6	1.5	364	27.0	12.388	28	B800	12H15L	2	32
278	46.9	1.3	360	23.0	12.282	32	B800	12H15-	2	32
278	46.9	1.3	360	23.0	12.282	32	B800	12H15L	2	32
296	40.5	1.0	305	18.0	6.707	100	B800	09H41-	2	28
296	40.5	1.0	305	18.0	6.707	100	B800	09H41L	2	28
308	42.9	1.5	455	21.0	12.362	35	B800	12H15-	2	32
308	42.9	1.5	455	21.0	12.362	35	B800	12H15L	2	32
348	37.5	1.3	450	19.0	12.263	40	B800	12H15-	2	32
348	37.5	1.3	450	19.0	12.263	40	B800	12H15L	2	32



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1013	1.5	45.0	397	4.895	4	B77	12D41-	1	10
16.0	1013	1.5	45.0	397	4.895	4	B77	12D41L	1	10
16.0	1013	2.1	90.0	399	5.387	4	B150	12D41-	1	12
16.0	1013	2.1	90.0	399	5.387	4	B150	12D41L	1	12
20.0	810	1.2	42.0	343	4.833	5	B77	12D41-	1	10
20.0	810	1.2	42.0	343	4.833	5	B77	12D41L	1	10
20.0	810	1.7	75.0	348	5.220	5	B150	12D41-	1	12
20.0	810	1.7	75.0	348	5.220	5	B150	12D41L	1	12
27.0	579	1.0	28.0	289	4.769	7	B77	12D41-	1	10
27.0	579	1.0	28.0	289	4.769	7	B77	12D41L	1	10
27.0	579	1.3	51.0	289	5.087	7	B150	12D41-	1	12
27.0	579	1.3	51.0	289	5.087	7	B150	12D41L	1	12
27.0	579	2.9	91.0	205	8.951	7	B300	12D41-	1	18
27.0	579	2.9	91.0	205	8.951	7	B300	12D41L	1	18
31.0	506	1.1	50.0	253	5.052	8	B150	12D41-	1	12
31.0	506	1.1	50.0	253	5.052	8	B150	12D41L	1	12
31.0	506	2.4	90.0	179	8.879	8	B300	12D41-	1	18
31.0	506	2.4	90.0	179	8.879	8	B300	12D41L	1	18
37.0	405	2.0	75.0	146	8.767	10	B300	12D41-	1	18
37.0	405	2.0	75.0	146	8.767	10	B300	12D41L	1	18
64.0	253	1.5	150	99.0	4.887	16	B150	12D41-	2	12
64.0	253	1.5	150	99.0	4.887	16	B150	12D41L	2	12
64.0	253	2.1	300	101	5.419	16	B300	12D41-	2	16
64.0	253	2.1	300	101	5.419	16	B300	12D41L	2	16
79.0	203	1.5	150	90.0	4.828	20	B150	12D41-	2	12
79.0	203	1.5	150	90.0	4.828	20	B150	12D41L	2	12
80.0	203	2.1	300	93.0	5.241	20	B300	12D41-	2	16
80.0	203	2.1	300	93.0	5.241	20	B300	12D41L	2	16
98.0	162	1.2	140	78.0	4.825	25	B150	12D41-	2	12
98.0	162	1.2	140	78.0	4.825	25	B150	12D41L	2	12
100	162	1.7	260	80.0	5.233	25	B300	12D41-	2	16
100	162	1.7	260	80.0	5.233	25	B300	12D41L	2	16
106	145	1.0	112	70.0	4.767	28	B150	12D41-	2	12
106	145	1.0	112	70.0	4.767	28	B150	12D41L	2	12
110	145	1.3	204	69.0	5.097	28	B300	12D41-	2	16
110	145	1.3	204	69.0	5.097	28	B300	12D41L	2	16
120	127	2.5	360	43.0	8.982	32	B800	12D41-	2	29
120	127	2.5	360	43.0	8.982	32	B800	12D41L	2	29
124	127	1.1	200	60.0	5.060	32	B300	12D41-	2	16
124	127	1.1	200	60.0	5.060	32	B300	12D41L	2	16
131	116	1.0	140	57.0	4.765	35	B150	12D41-	2	12
131	116	1.0	140	57.0	4.765	35	B150	12D41L	2	12
132	116	2.9	455	40.0	9.062	35	B800	12D41-	2	29
132	116	2.9	455	40.0	9.062	35	B800	12D41L	2	29
135	116	1.3	255	57.0	5.093	35	B300	12D41-	2	16
135	116	1.3	255	57.0	5.093	35	B300	12D41L	2	16
150	101	3.0	450	36.0	8.963	40	B800	12D41-	2	29
150	101	3.0	450	36.0	8.963	40	B800	12D41L	2	29
155	101	1.6	250	51.0	5.057	40	B300	12D41-	2	16
155	101	1.6	250	51.0	5.057	40	B300	12D41L	2	16
181	81.0	2.1	375	30.0	8.824	50	B800	12D41-	2	29

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
181	81.0	2.1	375	30.0	8.824	50	B800	12D41L	2	29
187	81.0	1.1	200	41.0	5.016	50	B300	12D41-	2	16
187	81.0	1.1	200	41.0	5.016	50	B300	12D41L	2	16
237	63.3	1.9	450	27.0	8.947	64	B800	12D41-	2	29
237	63.3	1.9	450	27.0	8.947	64	B800	12D41L	2	29



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1500	1.8	45.0	419	2.558	4	B77	09H60-	1	9.6
11.0	1500	1.8	45.0	419	2.558	4	B77	09H60L	1	9.7
11.0	1500	2.6	90.0	423	3.287	4	B150	09H60-	1	12
11.0	1500	2.6	90.0	423	3.287	4	B150	09H60L	1	12
14.0	1275	2.3	90.0	410	4.187	4	B150	09L51-	1	13
14.0	1200	1.5	42.0	361	2.495	5	B77	09H60-	1	9.6
14.0	1200	1.5	42.0	361	2.495	5	B77	09H60L	1	9.7
14.0	1200	2.1	75.0	366	3.120	5	B150	09H60-	1	12
14.0	1200	2.1	75.0	366	3.120	5	B150	09H60L	1	12
17.0	1020	1.9	75.0	356	4.020	5	B150	09L51-	1	13
17.0	1013	2.0	90.0	394	4.187	4	B150	09L41-	1	13
17.0	1013	2.0	90.0	394	4.187	4	B150	09L41L	1	14
19.0	857	1.3	28.0	309	2.432	7	B77	09H60-	1	9.6
19.0	857	1.3	28.0	309	2.432	7	B77	09H60L	1	9.7
19.0	857	1.7	51.0	304	2.987	7	B150	09H60-	1	12
19.0	857	1.7	51.0	304	2.987	7	B150	09H60L	1	12
20.0	810	3.5	140	264	8.166	5	B300	09L41-	1	19
20.0	810	3.5	140	264	8.166	5	B300	09L41L	1	19
21.0	810	1.6	75.0	345	4.020	5	B150	09L41-	1	13
21.0	810	1.6	75.0	345	4.020	5	B150	09L41L	1	14
21.0	750	1.1	27.0	265	2.418	8	B77	09H60-	1	9.6
21.0	750	1.1	27.0	265	2.418	8	B77	09H60L	1	9.7
22.0	750	1.4	50.0	260	2.952	8	B150	09H60-	1	12
22.0	750	1.4	50.0	260	2.952	8	B150	09H60L	1	12
23.0	729	1.5	51.0	299	3.887	7	B150	09L51-	1	13
26.0	638	1.2	50.0	256	3.852	8	B150	09L51-	1	13
27.0	600	1.1	40.0	222	2.913	10	B150	09H60-	1	12
27.0	600	1.1	40.0	222	2.913	10	B150	09H60L	1	12
28.0	579	2.8	91.0	204	7.751	7	B300	09L41-	1	19
28.0	579	2.8	91.0	204	7.751	7	B300	09L41L	1	19
29.0	579	1.2	51.0	289	3.887	7	B150	09L41-	1	13
29.0	579	1.2	51.0	289	3.887	7	B150	09L41L	1	14
32.0	506	2.3	90.0	179	7.679	8	B300	09L41-	1	19
32.0	506	2.3	90.0	179	7.679	8	B300	09L41L	1	19
33.0	506	1.0	50.0	251	3.852	8	B150	09L41-	1	13
33.0	506	1.0	50.0	251	3.852	8	B150	09L41L	1	14
39.0	405	1.9	75.0	146	7.567	10	B300	09L41-	1	19
39.0	405	1.9	75.0	146	7.567	10	B300	09L41L	1	19
43.0	375	2.7	300	109	3.319	16	B300	09H60-	2	16
43.0	375	2.7	300	109	3.319	16	B300	09H60L	2	16
44.0	375	1.1	77.0	99.0	2.542	16	B77	09H60-	2	11
44.0	375	1.1	77.0	99.0	2.542	16	B77	09H60L	2	11
45.0	375	1.9	150	106	2.549	16	B150	09H60-	2	12
45.0	375	1.9	150	106	2.549	16	B150	09H60L	2	12
53.0	319	2.3	300	104	4.219	16	B300	09L51-	2	18
54.0	300	2.7	300	100	3.141	20	B300	09H60-	2	16
54.0	300	2.7	300	100	3.141	20	B300	09H60L	2	16
55.0	300	1.9	150	97.0	2.490	20	B150	09H60-	2	12
55.0	300	1.9	150	97.0	2.490	20	B150	09H60L	2	12
66.0	255	2.3	300	96.0	4.041	20	B300	09L51-	2	18
68.0	253	2.0	300	100	4.219	16	B300	09L41-	2	18

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
68.0	253	2.0	300	100	4.219	16	B300	09L41L	2	18
68.0	240	1.6	140	82.0	2.487	25	B150	09H60-	2	12
68.0	240	1.6	140	82.0	2.487	25	B150	09H60L	2	12
70.0	240	2.2	260	84.0	3.133	25	B300	09H60-	2	16
70.0	240	2.2	260	84.0	3.133	25	B300	09H60L	2	16
74.0	214	1.3	112	73.0	2.429	28	B150	09H60-	2	12
74.0	214	1.3	112	73.0	2.429	28	B150	09H60L	2	12
76.0	214	1.7	204	72.0	2.997	28	B300	09H60-	2	16
76.0	214	1.7	204	72.0	2.997	28	B300	09H60L	2	16
84.0	204	1.9	260	82.0	4.033	25	B300	09L51-	2	18
84.0	188	1.1	108	64.0	2.415	32	B150	09H60-	2	12
84.0	188	1.1	108	64.0	2.415	32	B150	09H60L	2	12
85.0	203	2.0	300	92.0	4.041	20	B300	09L41-	2	18
85.0	203	2.0	300	92.0	4.041	20	B300	09L41L	2	18
86.0	188	1.4	200	63.0	2.960	32	B300	09H60-	2	16
86.0	188	1.4	200	63.0	2.960	32	B300	09H60L	2	16
91.0	171	1.3	140	60.0	2.428	35	B150	09H60-	2	12
91.0	171	1.3	140	60.0	2.428	35	B150	09H60L	2	12
92.0	182	1.5	204	70.0	3.897	28	B300	09L51-	2	18
95.0	171	1.7	255	59.0	2.993	35	B300	09H60-	2	16
95.0	171	1.7	255	59.0	2.993	35	B300	09H60L	2	16
103	150	1.3	135	52.0	2.414	40	B150	09H60-	2	12
103	150	1.3	135	52.0	2.414	40	B150	09H60L	2	12
104	159	1.2	200	61.0	3.860	32	B300	09L51-	2	18
105	162	1.6	260	79.0	4.033	25	B300	09L41-	2	18
105	162	1.6	260	79.0	4.033	25	B300	09L41L	2	18
108	150	2.2	250	54.0	2.957	40	B300	09H60-	2	16
108	150	2.2	250	54.0	2.957	40	B300	09H60L	2	16
111	145	2.8	364	50.0	7.888	28	B800	09L41-	2	30
111	145	2.8	364	50.0	7.888	28	B800	09L41L	2	30
113	146	1.5	255	58.0	3.893	35	B300	09L51-	2	18
115	145	1.2	204	68.0	3.897	28	B300	09L41-	2	18
115	145	1.2	204	68.0	3.897	28	B300	09L41L	2	18
125	127	2.3	360	43.0	7.782	32	B800	09L41-	2	30
125	127	2.3	360	43.0	7.782	32	B800	09L41L	2	30
130	128	1.9	250	53.0	3.857	40	B300	09L51-	2	18
130	127	1.1	200	60.0	3.860	32	B300	09L41-	2	18
130	127	1.1	200	60.0	3.860	32	B300	09L41L	2	18
131	120	1.5	200	45.0	2.916	50	B300	09H60-	2	16
131	120	1.5	200	45.0	2.916	50	B300	09H60L	2	16
139	116	2.8	455	40.0	7.862	35	B800	09L41-	2	30
139	116	2.8	455	40.0	7.862	35	B800	09L41L	2	30
142	116	1.3	255	56.0	3.893	35	B300	09L41-	2	18
142	116	1.3	255	56.0	3.893	35	B300	09L41L	2	18
157	102	1.3	200	44.0	3.816	50	B300	09L51-	2	18
157	101	2.9	450	36.0	7.763	40	B800	09L41-	2	30
157	101	2.9	450	36.0	7.763	40	B800	09L41L	2	30
162	101	1.5	250	51.0	3.857	40	B300	09L41-	2	18
162	101	1.5	250	51.0	3.857	40	B300	09L41L	2	18
165	93.8	2.7	450	27.0	6.847	64	B800	09H60-	2	28
165	93.8	2.7	450	27.0	6.847	64	B800	09H60L	2	28
189	81.0	2.0	375	30.0	7.624	50	B800	09L41-	2	30



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
189	81.0	2.0	375	30.0	7.624	50	B800	09L41L	2	30
196	81.0	1.0	200	41.0	3.816	50	B300	09L41-	2	18
196	81.0	1.0	200	41.0	3.816	50	B300	09L41L	2	18
198	79.7	2.3	450	27.0	7.747	64	B800	09L51-	2	30
234	60.0	1.3	305	18.0	6.707	100	B800	09H60-	2	28
234	60.0	1.3	305	18.0	6.707	100	B800	09H60L	2	28
248	63.3	1.8	450	26.0	7.747	64	B800	09L41-	2	30
248	63.3	1.8	450	26.0	7.747	64	B800	09L41L	2	30
281	51.0	1.1	305	18.0	7.607	100	B800	09L51-	2	30

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	750	1.2	90.0	345	8.687	4	B150	12H30L	1	15
30.0	750	2.6	160	293	13.175	4	B300	12H30L	1	21
38.0	600	2.1	140	243	12.666	5	B300	12H30L	1	21
50.0	429	1.7	91.0	195	12.251	7	B300	12H30L	1	21
57.0	375	1.4	90.0	169	12.179	8	B300	12H30L	1	21
57.0	375	3.6	320	188	35.083	4	B800	14H15-	1	59
61.0	375	1.6	160	188	20.075	4	B300	14H15-	1	45
69.0	300	1.1	75.0	141	12.067	10	B300	12H30L	1	21
74.0	300	2.9	280	150	32.507	5	B800	14H15-	1	59
75.0	300	1.3	140	150	19.566	5	B300	14H15-	1	45
101	214	1.9	189	107	29.672	7	B800	14H15-	1	59
114	188	2.7	640	64.0	13.687	16	B800	12H30L	2	32
115	188	1.6	180	94.0	29.905	8	B800	14H15-	1	59
120	188	1.2	300	85.0	8.719	16	B300	12H30L	2	19
138	150	1.2	160	75.0	29.290	10	B800	14H15-	1	59
143	150	2.7	800	54.0	13.512	20	B800	12H30L	2	32
150	150	1.2	300	75.0	8.541	20	B300	12H30L	2	19
184	120	2.2	700	45.0	12.882	25	B800	12H30L	2	32
197	107	1.7	364	48.0	12.388	28	B800	12H30L	2	32
223	93.8	1.4	360	41.0	12.282	32	B800	12H30L	2	32
238	93.8	1.7	640	47.0	20.587	16	B800	14H15-	2	56
246	85.7	1.7	455	38.0	12.362	35	B800	12H30L	2	32
278	75.0	1.6	450	33.0	12.263	40	B800	12H30L	2	32
298	75.0	1.7	800	38.0	20.412	20	B800	14H15-	2	56
336	60.0	1.1	375	28.0	12.124	50	B800	12H30L	2	32
368	60.0	1.3	700	30.0	19.782	25	B800	14H15-	2	56
440	46.9	1.0	450	23.0	12.247	64	B800	12H30L	2	32

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
28.0	900	2.7	160	293	13.975	4	B300	14D36-	1	40
28.0	881	2.7	160	294	13.175	4	B300	12H35-	1	21
29.0	900	1.2	90.0	346	10.765	4	B150	14D36-	1	34
29.0	881	1.2	90.0	347	8.687	4	B150	12H35-	1	15
35.0	720	2.2	140	244	13.466	5	B300	14D36-	1	40
35.0	705	2.2	140	244	12.666	5	B300	12H35-	1	21
47.0	514	1.7	91.0	195	13.051	7	B300	14D36-	1	40
47.0	504	1.7	91.0	195	12.251	7	B300	12H35-	1	21
48.0	488	3.9	320	244	31.483	4	B800	12L20-	1	38
48.0	488	3.9	320	244	31.483	4	B800	12L20L	1	38
51.0	488	1.8	160	244	16.475	4	B300	12L20-	1	24
51.0	488	1.8	160	244	16.475	4	B300	12L20L	1	24
53.0	450	1.4	90.0	169	12.979	8	B300	14D36-	1	40
53.0	441	1.4	90.0	169	12.179	8	B300	12H35-	1	21
62.0	390	3.2	280	195	28.907	5	B800	12L20-	1	38
62.0	390	3.2	280	195	28.907	5	B800	12L20L	1	38
63.0	390	1.4	140	195	15.966	5	B300	12L20-	1	24
63.0	390	1.4	140	195	15.966	5	B300	12L20L	1	24
65.0	360	1.2	75.0	141	12.867	10	B300	14D36-	1	40
65.0	353	1.2	75.0	141	12.067	10	B300	12H35-	1	21
84.0	279	1.1	91.0	139	15.551	7	B300	12L20-	1	24
84.0	279	1.1	91.0	139	15.551	7	B300	12L20L	1	24
85.0	279	2.2	189	139	26.072	7	B800	12L20-	1	38
85.0	279	2.2	189	139	26.072	7	B800	12L20L	1	38
97.0	244	1.9	180	122	26.305	8	B800	12L20-	1	38
97.0	244	1.9	180	122	26.305	8	B800	12L20L	1	38
107	225	2.7	640	64.0	14.487	16	B800	14D36-	2	51
107	220	2.7	640	64.0	13.687	16	B800	12H35-	2	32
113	225	1.2	300	85.0	10.797	16	B300	14D36-	2	39
113	220	1.3	300	85.0	8.719	16	B300	12H35-	2	19
116	195	1.4	160	98.0	25.690	10	B800	12L20-	1	38
116	195	1.4	160	98.0	25.690	10	B800	12L20L	1	38
133	180	2.7	800	55.0	14.312	20	B800	14D36-	2	51
133	176	2.7	800	55.0	13.512	20	B800	12H35-	2	32
141	180	1.3	300	79.0	10.619	20	B300	14D36-	2	39
141	176	1.3	300	79.0	8.541	20	B300	12H35-	2	19
173	144	2.2	700	45.0	13.682	25	B800	14D36-	2	51
173	141	2.2	700	45.0	12.882	25	B800	12H35-	2	32
174	144	1.0	260	70.0	10.611	25	B300	14D36-	2	39
174	141	1.0	260	70.0	8.533	25	B300	12H35-	2	19
185	129	1.7	364	48.0	13.188	28	B800	14D36-	2	51
185	126	1.8	364	48.0	12.388	28	B800	12H35-	2	32
201	122	1.8	640	57.0	16.987	16	B800	12L20-	2	35
201	122	1.8	640	57.0	16.987	16	B800	12L20L	2	35
209	113	1.5	360	41.0	13.082	32	B800	14D36-	2	51
209	110	1.5	360	41.0	12.282	32	B800	12H35-	2	32
231	103	1.7	455	38.0	13.162	35	B800	14D36-	2	51
231	101	1.8	455	38.0	12.362	35	B800	12H35-	2	32
251	97.5	1.8	800	48.0	16.812	20	B800	12L20-	2	35
251	97.5	1.8	800	48.0	16.812	20	B800	12L20L	2	35
261	90.0	1.7	450	34.0	13.063	40	B800	14D36-	2	51



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
261	88.1	1.7	450	34.0	12.263	40	B800	12H35-	2	32
311	78.0	1.5	700	39.0	16.182	25	B800	12L20-	2	35
311	78.0	1.5	700	39.0	16.182	25	B800	12L20L	2	35
315	72.0	1.2	375	29.0	12.924	50	B800	14D36-	2	51
315	70.5	1.2	375	29.0	12.124	50	B800	12H35-	2	32
333	69.6	1.1	364	35.0	15.688	28	B800	12L20-	2	35
333	69.6	1.1	364	35.0	15.688	28	B800	12L20L	2	35
413	56.3	1.1	450	25.0	13.047	64	B800	14D36-	2	51
413	55.1	1.1	450	25.0	12.247	64	B800	12H35-	2	32
416	55.7	1.1	455	28.0	15.662	35	B800	12L20-	2	35
416	55.7	1.1	455	28.0	15.662	35	B800	12L20L	2	35

3.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
86.0	375	2.5	320	188	44.283	4	B800	14L15-	1	64
87.0	375	1.1	160	188	29.275	4	B300	14L15-	1	49
108	300	2.0	280	150	41.707	5	B800	14L15-	1	64
145	214	1.3	189	107	38.872	7	B800	14L15-	1	64
166	188	1.1	180	94.0	39.105	8	B800	14L15-	1	64
342	93.8	1.2	640	47.0	29.787	16	B800	14L15-	2	60
428	75.0	1.2	800	38.0	29.612	20	B800	14L15-	2	60

4 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
103	356	2.2	320	178	85.883	4	B800	19F14-	1	74
127	285	1.7	280	143	83.307	5	B800	19F14-	1	74
170	204	1.1	189	102	80.472	7	B800	19F14-	1	74

4.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
114	338	2.0	320	169	55.583	4	B800	14P14-	1	69
141	270	1.6	280	135	53.007	5	B800	14P14-	1	69
189	193	1.0	189	96.0	50.172	7	B800	14P14-	1	69

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	1013	3.9	320	263	31.483	4	B800	12L41-	1	38
42.0	1013	1.8	160	264	16.475	4	B300	12L41-	1	24
50.0	810	3.1	280	212	28.907	5	B800	12L41-	1	38
51.0	806	3.3	320	255	35.083	4	B800	14H32-	1	59
52.0	810	1.4	140	225	15.966	5	B300	12L41-	1	24
53.0	806	1.5	160	252	20.075	4	B300	14H32-	1	45
65.0	645	2.6	280	206	32.507	5	B800	14H32-	1	59
66.0	645	1.2	140	218	19.566	5	B300	14H32-	1	45
69.0	579	1.1	91.0	188	15.551	7	B300	12L41-	1	24
69.0	579	2.5	189	169	26.072	7	B800	12L41-	1	38
79.0	506	2.1	180	149	26.305	8	B800	12L41-	1	38
88.0	461	2.1	189	167	29.672	7	B800	14H32-	1	59
95.0	405	1.7	160	127	25.690	10	B800	12L41-	1	38
101	403	1.7	180	146	29.905	8	B800	14H32-	1	59
120	323	1.3	160	124	29.290	10	B800	14H32-	1	59
164	253	1.8	640	57.0	16.987	16	B800	12L41-	2	35
205	203	1.8	800	47.0	16.812	20	B800	12L41-	2	35
208	202	1.5	640	54.0	20.587	16	B800	14H32-	2	56
253	162	1.5	700	40.0	16.182	25	B800	12L41-	2	35
260	161	1.5	800	44.0	20.412	20	B800	14H32-	2	56
271	145	1.2	364	45.0	15.688	28	B800	12L41-	2	35
322	129	1.2	700	38.0	19.782	25	B800	14H32-	2	56
339	116	1.2	455	36.0	15.662	35	B800	12L41-	2	35
383	101	1.2	450	32.0	15.563	40	B800	12L41-	2	35

5.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
64.0	806	2.7	320	246	44.283	4	B800	14L32-	1	64
65.0	806	1.2	160	238	29.275	4	B300	14L32-	1	49
81.0	645	2.1	280	198	41.707	5	B800	14L32-	1	64
108	461	1.7	189	164	38.872	7	B800	14L32-	1	64
124	403	1.4	180	143	39.105	8	B800	14L32-	1	64
148	323	1.1	160	121	38.490	10	B800	14L32-	1	64
256	202	1.2	640	50.0	29.787	16	B800	14L32-	2	60
320	161	1.2	800	41.0	29.612	20	B800	14L32-	2	60

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
152	356	1.5	320	178	125.883	4	B800	19J14-	1	81
188	285	1.2	280	143	123.307	5	B800	19J14-	1	81



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

6.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
80.0	750	1.0	160	225	72.550	4	B300	19F30-	1	60
80.0	750	2.2	320	237	85.883	4	B800	19F30-	1	74
99.0	600	1.8	280	192	83.307	5	B800	19F30-	1	74
132	429	1.4	189	162	80.472	7	B800	19F30-	1	74
151	375	1.2	180	140	80.705	8	B800	19F30-	1	74
312	188	1.0	640	47.0	73.091	16	B800	19F30-	2	71
391	150	1.0	800	38.0	72.915	20	B800	19F30-	2	71

7.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
80.0	806	2.2	320	236	55.583	4	B800	14P32-	1	69
99.0	645	1.8	280	191	53.007	5	B800	14P32-	1	69
132	461	1.4	189	162	50.172	7	B800	14P32-	1	69
151	403	1.2	180	140	50.405	8	B800	14P32-	1	69

7.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
194	338	1.2	320	169	180.883	4	B800	19P14-	1	91

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
110	750	1.6	320	222	125.883	4	B800	19J30-	1	81
136	600	1.3	280	180	123.307	5	B800	19J30-	1	81
183	429	1.0	189	158	120.472	7	B800	19J30-	1	81

10 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
122	750	1.5	320	218	180.883	4	B800	19P30-	1	91
150	600	1.2	280	176	178.307	5	B800	19P30-	1	91

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
25.0	413	3.6	160	206	9.875	4	B300	12D17-	1	20
27.0	413	1.7	90.0	206	5.387	4	B150	12D17-	1	14
32.0	330	2.9	140	165	9.366	5	B300	12D17-	1	20
33.0	330	1.3	75.0	165	5.220	5	B150	12D17-	1	14
44.0	236	2.1	91.0	118	8.951	7	B300	12D17-	1	20
45.0	236	1.0	51.0	118	5.087	7	B150	12D17-	1	14
50.0	206	1.8	90.0	103	8.879	8	B300	12D17-	1	20
60.0	165	1.3	75.0	83.0	8.767	10	B300	12D17-	1	20
92.0	103	3.7	640	52.0	10.387	16	B800	12D17-	2	31
105	103	1.7	300	52.0	5.419	16	B300	12D17-	2	18
115	82.5	3.7	800	41.0	10.212	20	B800	12D17-	2	31
132	82.5	1.7	300	41.0	5.241	20	B300	12D17-	2	18
152	66.0	3.0	700	33.0	9.582	25	B800	12D17-	2	31
163	66.0	1.4	260	33.0	5.233	25	B300	12D17-	2	18
172	58.9	2.1	364	29.0	9.088	28	B800	12D17-	2	31
178	58.9	1.0	204	29.0	5.097	28	B300	12D17-	2	18
195	51.6	1.9	360	26.0	8.982	32	B800	12D17-	2	31
216	47.1	2.1	455	24.0	9.062	35	B800	12D17-	2	31
221	47.1	1.1	255	24.0	5.093	35	B300	12D17-	2	18
244	41.3	1.9	450	21.0	8.963	40	B800	12D17-	2	31
294	33.0	1.3	375	17.0	8.824	50	B800	12D17-	2	31
385	25.8	1.2	450	13.0	8.947	64	B800	12D17-	2	31



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
40.0	338	5.0	320	169	28.183	4	B800	12H14-	1	37
40.0	338	5.0	320	169	28.983	4	B800	14D14-	1	58
46.0	338	1.0	90.0	169	8.687	4	B150	12H14-	1	17
46.0	338	2.2	160	169	13.175	4	B300	12H14-	1	23
46.0	338	2.2	160	169	13.975	4	B300	14D14-	1	44
53.0	270	4.0	280	135	25.607	5	B800	12H14-	1	37
53.0	270	4.0	280	135	26.407	5	B800	14D14-	1	58
56.0	270	1.8	140	135	12.666	5	B300	12H14-	1	23
56.0	270	1.8	140	135	13.466	5	B300	14D14-	1	44
75.0	193	1.2	91.0	96.0	12.251	7	B300	12H14-	1	23
75.0	193	1.2	91.0	96.0	13.051	7	B300	14D14-	1	44
76.0	193	2.5	189	96.0	22.772	7	B800	12H14-	1	37
76.0	193	2.5	189	96.0	23.572	7	B800	14D14-	1	58
85.0	169	1.1	90.0	84.0	12.179	8	B300	12H14-	1	23
85.0	169	1.1	90.0	84.0	12.979	8	B300	14D14-	1	44
86.0	169	2.1	180	84.0	23.005	8	B800	12H14-	1	37
86.0	169	2.1	180	84.0	23.805	8	B800	14D14-	1	58
103	135	1.6	160	68.0	22.390	10	B800	12H14-	1	37
103	135	1.6	160	68.0	23.190	10	B800	14D14-	1	58
177	84.4	2.3	640	42.0	13.687	16	B800	12H14-	2	34
177	84.4	2.3	640	42.0	14.487	16	B800	14D14-	2	55
180	84.4	1.0	300	42.0	8.719	16	B300	12H14-	2	21
221	67.5	2.3	800	34.0	13.512	20	B800	12H14-	2	34
221	67.5	2.3	800	34.0	14.312	20	B800	14D14-	2	55
226	67.5	1.0	300	34.0	8.541	20	B300	12H14-	2	21
276	54.0	1.9	700	27.0	12.882	25	B800	12H14-	2	34
276	54.0	1.9	700	27.0	13.682	25	B800	14D14-	2	55
296	48.2	1.2	364	24.0	12.388	28	B800	12H14-	2	34
296	48.2	1.2	364	24.0	13.188	28	B800	14D14-	2	55
334	42.2	1.1	360	21.0	12.282	32	B800	12H14-	2	34
334	42.2	1.1	360	21.0	13.082	32	B800	14D14-	2	55
370	38.6	1.2	455	19.0	12.362	35	B800	12H14-	2	34
370	38.6	1.2	455	19.0	13.162	35	B800	14D14-	2	55
418	33.8	1.1	450	17.0	12.263	40	B800	12H14-	2	34
418	33.8	1.1	450	17.0	13.063	40	B800	14D14-	2	55

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
22.0	881	3.4	160	309	9.875	4	B300	12D35-	1	20
23.0	881	1.6	90.0	369	5.387	4	B150	12D35-	1	14
28.0	705	2.7	140	253	9.366	5	B300	12D35-	1	20
29.0	705	1.2	75.0	326	5.220	5	B150	12D35-	1	14
37.0	504	2.2	91.0	199	8.951	7	B300	12D35-	1	20
43.0	441	1.8	90.0	174	8.879	8	B300	12D35-	1	20
52.0	353	1.5	75.0	143	8.767	10	B300	12D35-	1	20
81.0	220	3.4	640	68.0	10.387	16	B800	12D35-	2	31
90.0	220	1.6	300	92.0	5.419	16	B300	12D35-	2	18
101	176	3.4	800	59.0	10.212	20	B800	12D35-	2	31
113	176	1.6	300	85.0	5.241	20	B300	12D35-	2	18
133	141	2.8	700	47.0	9.582	25	B800	12D35-	2	31
140	141	1.3	260	71.0	5.233	25	B300	12D35-	2	18
148	126	2.2	364	49.0	9.088	28	B800	12D35-	2	31
167	110	1.8	360	42.0	8.982	32	B800	12D35-	2	31
185	101	2.2	455	39.0	9.062	35	B800	12D35-	2	31
209	88.1	2.2	450	35.0	8.963	40	B800	12D35-	2	31
216	88.1	1.2	250	44.0	5.057	40	B300	12D35-	2	18
252	70.5	1.5	375	29.0	8.824	50	B800	12D35-	2	31
330	55.1	1.4	450	26.0	8.947	64	B800	12D35-	2	31

2.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
62.0	413	3.3	320	206	31.483	4	B800	12L17-	1	40
65.0	413	1.5	160	206	16.475	4	B300	12L17-	1	26
79.0	330	2.6	280	165	28.907	5	B800	12L17-	1	40
80.0	330	1.2	140	165	15.966	5	B300	12L17-	1	26
107	236	1.8	189	118	26.072	7	B800	12L17-	1	40
122	206	1.5	180	103	26.305	8	B800	12L17-	1	40
146	165	1.1	160	83.0	25.690	10	B800	12L17-	1	40
253	103	1.5	640	52.0	16.987	16	B800	12L17-	2	37
316	82.5	1.5	800	41.0	16.812	20	B800	12L17-	2	37
391	66.0	1.2	700	33.0	16.182	25	B800	12L17-	2	37

3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
88.0	300	2.6	320	150	35.083	4	B800	14H12-	1	63
89.0	300	1.2	160	150	20.075	4	B300	14H12-	1	49
110	240	2.1	280	120	32.507	5	B800	14H12-	1	63
148	171	1.3	189	86.0	29.672	7	B800	14H12-	1	63
169	150	1.1	180	75.0	29.905	8	B800	14H12-	1	63
350	75.0	1.2	640	38.0	20.587	16	B800	14H12-	2	60
437	60.0	1.2	800	30.0	20.412	20	B800	14H12-	2	60



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

3.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
40.0	750	2.0	160	274	13.975	4	B300	14D30-	1	44
49.0	600	1.6	140	231	13.466	5	B300	14D30-	1	44
65.0	429	1.3	91.0	190	13.051	7	B300	14D30-	1	44
75.0	375	1.1	90.0	164	12.979	8	B300	14D30-	1	44
156	188	2.1	640	59.0	14.487	16	B800	14D30-	2	55
195	150	2.1	800	50.0	14.312	20	B800	14D30-	2	55
242	120	1.7	700	42.0	13.682	25	B800	14D30-	2	55
259	107	1.3	364	46.0	13.188	28	B800	14D30-	2	55
292	93.8	1.1	360	40.0	13.082	32	B800	14D30-	2	55
323	85.7	1.3	455	37.0	13.162	35	B800	14D30-	2	55
365	75.0	1.2	450	32.0	13.063	40	B800	14D30-	2	55

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
40.0	844	1.9	160	271	13.175	4	B300	12H34-	1	23
49.0	675	1.6	140	230	12.666	5	B300	12H34-	1	23
65.0	482	1.3	91.0	190	12.251	7	B300	12H34-	1	23
75.0	422	1.0	90.0	163	12.179	8	B300	12H34-	1	23
156	211	2.0	640	59.0	13.687	16	B800	12H34-	2	34
195	169	2.0	800	49.0	13.512	20	B800	12H34-	2	34
242	135	1.6	700	41.0	12.882	25	B800	12H34-	2	34
259	121	1.3	364	46.0	12.388	28	B800	12H34-	2	34
292	106	1.1	360	39.0	12.282	32	B800	12H34-	2	34
323	96.4	1.3	455	37.0	12.362	35	B800	12H34-	2	34
365	84.4	1.2	450	32.0	12.263	40	B800	12H34-	2	34

4.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
116	338	2.0	320	169	44.283	4	B800	14L14-	1	68
143	270	1.6	280	135	41.707	5	B800	14L14-	1	68

4.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
160	263	1.5	320	131	55.583	4	B800	14P11-	1	73
197	210	1.2	280	105	53.007	5	B800	14P11-	1	73

Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



4.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
144	300	1.6	320	150	85.883	4	B800	19F12-	1	80
179	240	1.3	280	120	83.307	5	B800	19F12-	1	80

5.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
51.0	975	3.1	320	252	31.483	4	B800	12L39-	1	40
53.0	975	1.4	160	248	16.475	4	B300	12L39-	1	26
66.0	780	1.1	140	215	15.966	5	B300	12L39-	1	26
66.0	780	2.5	280	204	28.907	5	B800	12L39-	1	40
88.0	557	2.0	189	166	26.072	7	B800	12L39-	1	40
101	488	1.7	180	145	26.305	8	B800	12L39-	1	40
120	390	1.3	160	124	25.690	10	B800	12L39-	1	40
208	244	1.4	640	53.0	16.987	16	B800	12L39-	2	37
260	195	1.4	800	44.0	16.812	20	B800	12L39-	2	37
322	156	1.2	700	38.0	16.182	25	B800	12L39-	2	37

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
78.0	694	1.1	160	229	20.075	4	B300	14H28-	1	49
78.0	694	2.3	320	239	35.083	4	B800	14H28-	1	63
96.0	555	1.9	280	193	32.507	5	B800	14H28-	1	63
129	396	1.5	189	162	29.672	7	B800	14H28-	1	63
148	347	1.2	180	141	29.905	8	B800	14H28-	1	63
305	173	1.1	640	48.0	20.587	16	B800	14H28-	2	60
381	139	1.1	800	39.0	20.412	20	B800	14H28-	2	60

8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
97.0	750	1.8	320	228	44.283	4	B800	14L30-	1	68
120	600	1.5	280	184	41.707	5	B800	14L30-	1	68
161	429	1.2	189	159	38.872	7	B800	14L30-	1	68

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
125	656	1.5	320	218	55.583	4	B800	14P26-	1	73
155	525	1.2	280	176	53.007	5	B800	14P26-	1	73



Technical data

Bevel gearbox g850-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

9.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g850-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
124	713	1.5	320	218	85.883	4	B800	19F29-	1	80
153	570	1.2	280	176	83.307	5	B800	19F29-	1	80

Technical data

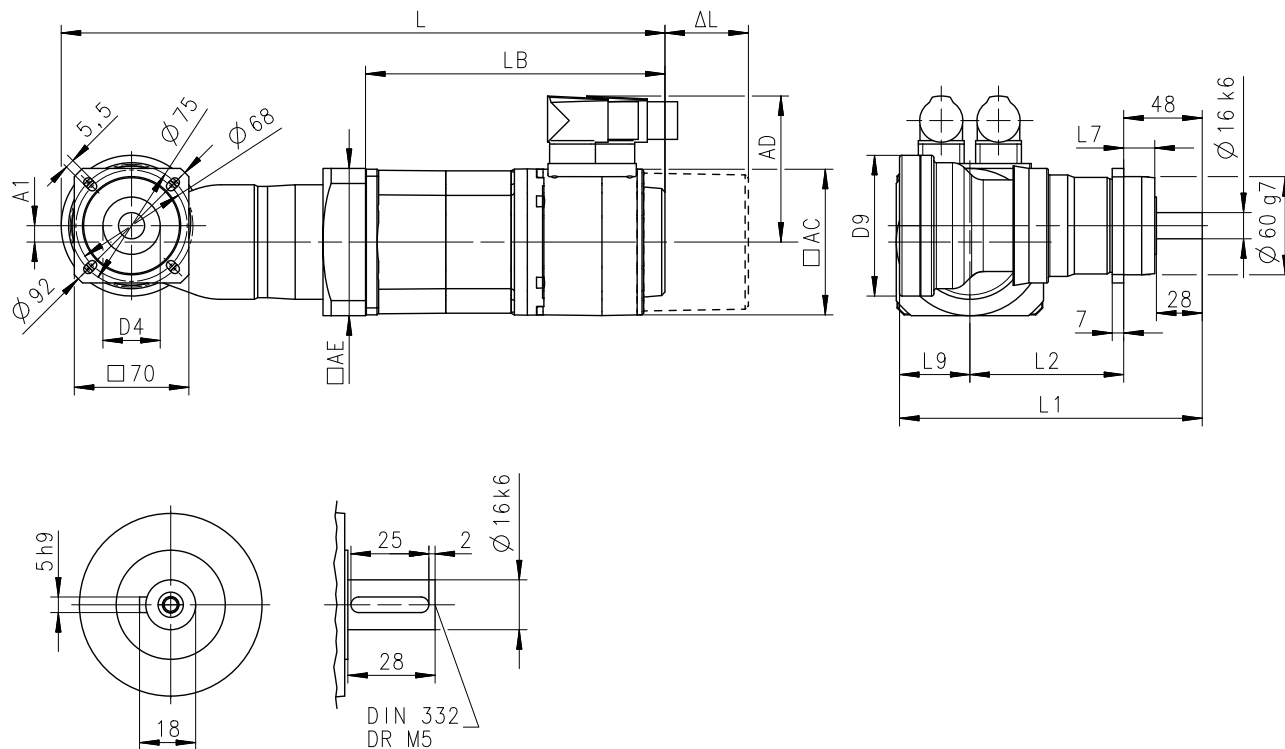
Bevel gearbox g850-B
Basic dimensions



Basic dimensions

g850-B77 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800831-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	341	341	371	371
Gearbox length	L1	mm	137.5	137.5	137.5	137.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70

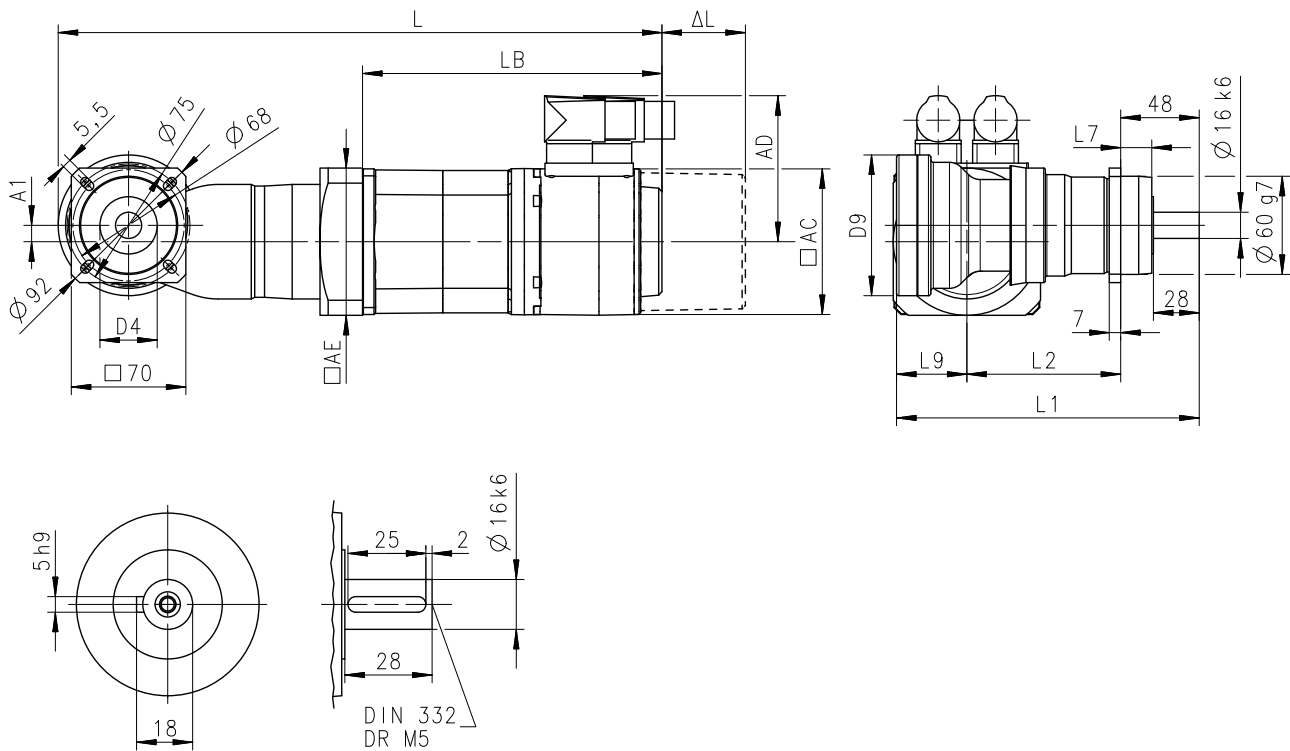


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B77 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800831-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	311	311	341	341	371	371
Gearbox length	L1	mm	185	185	185	185	185	185
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70	70

Bevel gearbox g850-B

Basic dimensions

[illegible]

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	368	368	388	388	408	408
Gearbox length	L1	mm	137.5	137.5	137.5	137.5	137.5	137.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

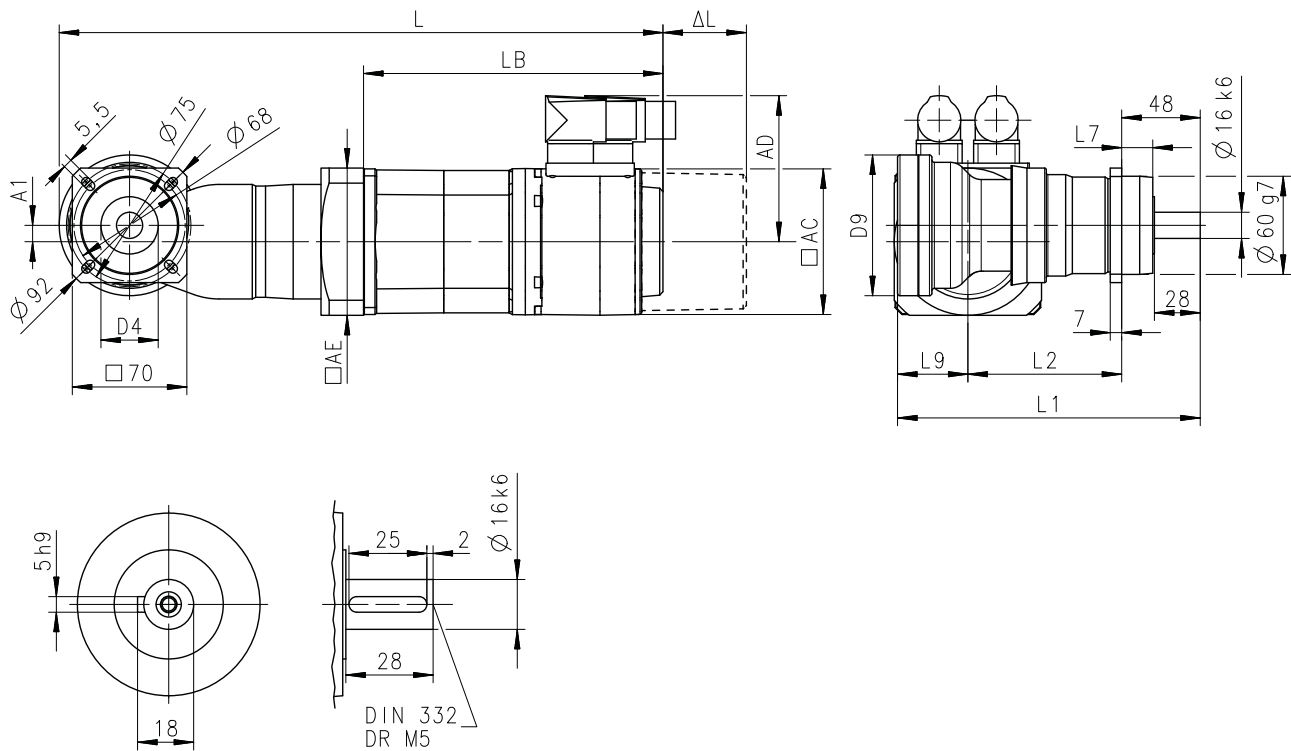


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B77 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800831-00

Motor			MCS 09				
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H60- H60L
Total length	L	mm	368	368	388	388	408
Gearbox length	L1	mm	185	185	185	185	185
Motor length	LB	mm	182	182	202	202	222
Motor diameter	AC	mm	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90

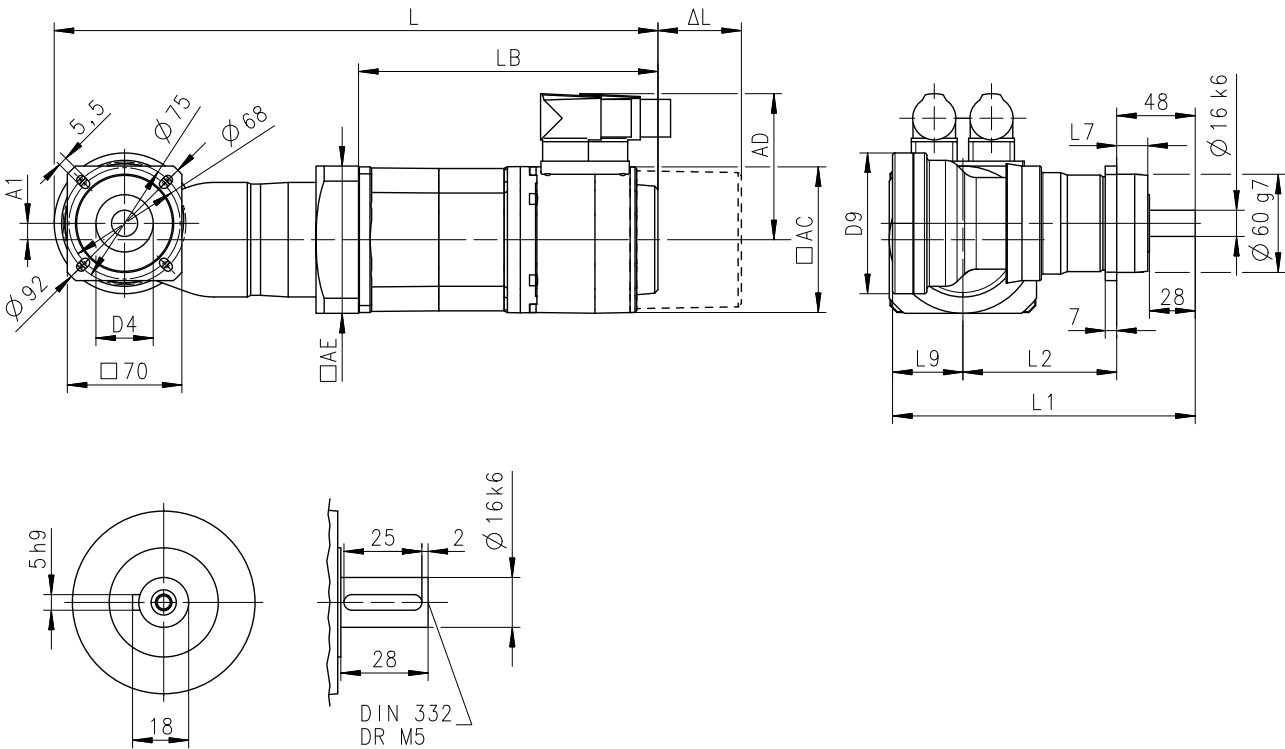
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B77 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



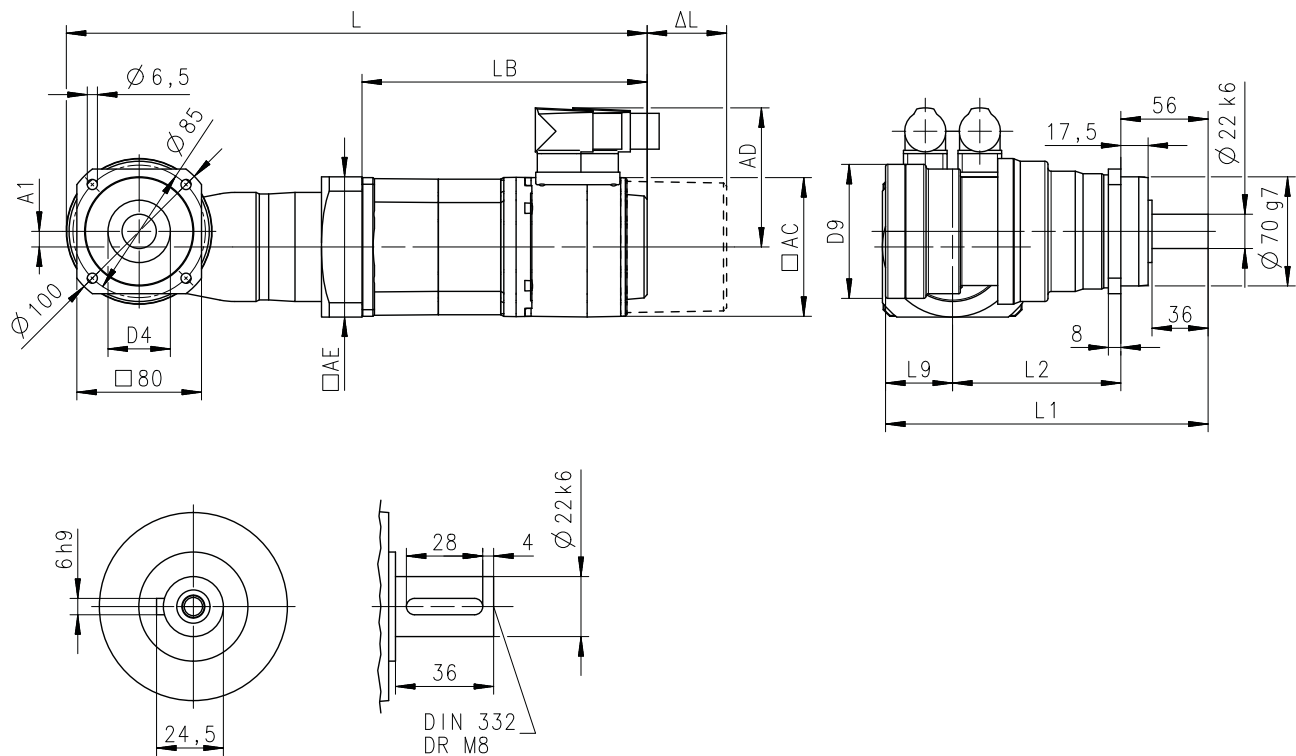
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Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	387	387
Gearbox length	L1	mm	137.5	137.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g850-B150 with MCS06

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800832-00

Motor			MCS 06		
			F41- F41L	I41- I41L	I60- I60L
Total length	L	mm	365.5	395.5	395.5
Gearbox length	L1	mm	165	165	165
Motor length	LB	mm	162	192	192
Motor diameter	AC	mm	86	86	86
Motor/connection distance	AD	mm	77	77	77
Gearbox diameter	AE	mm	70	70	70

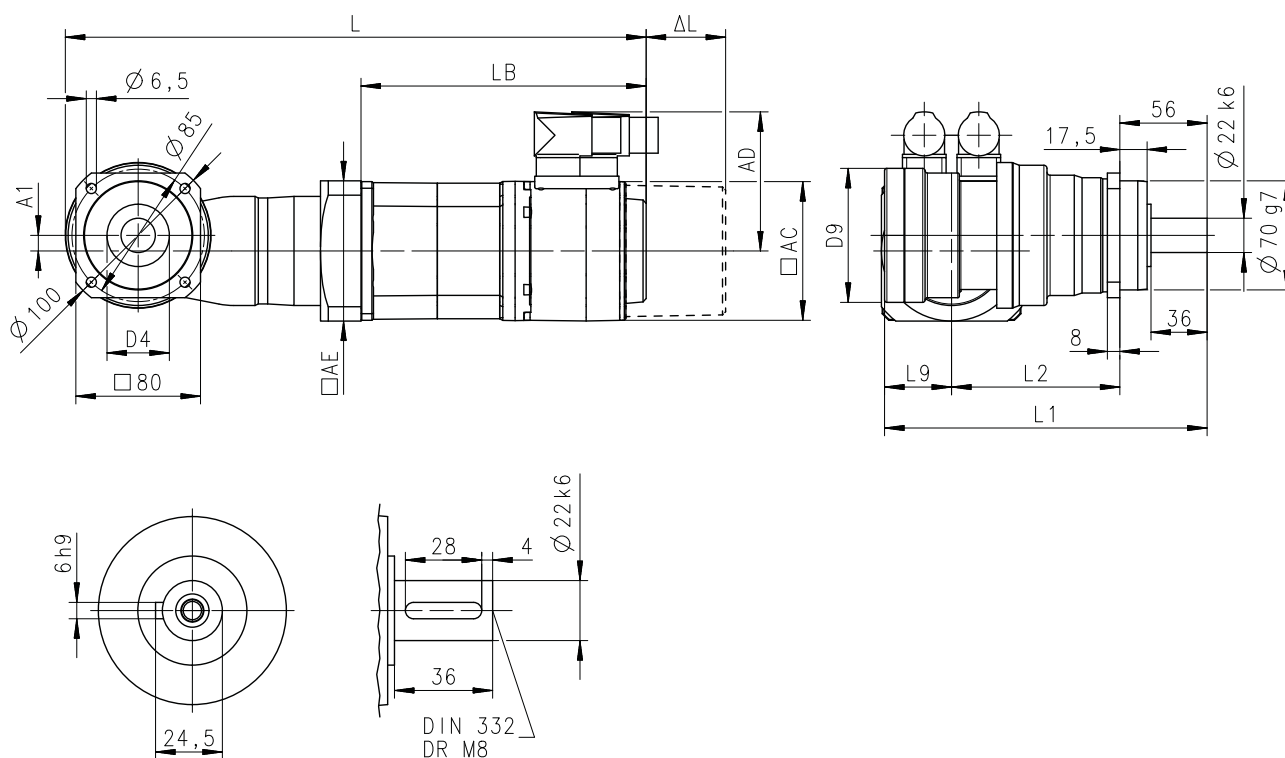
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B150 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800832-00

Motor			MCS 06					
			C41- C41L	C60- C60L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	314.5	314.5	344.5	344.5	374.5	374.5
Gearbox length	L1	mm	207	207	207	207	207	207
Motor length	LB	mm	132	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77	77
Gearbox diameter	AE	mm	90	90	90	90	90	90

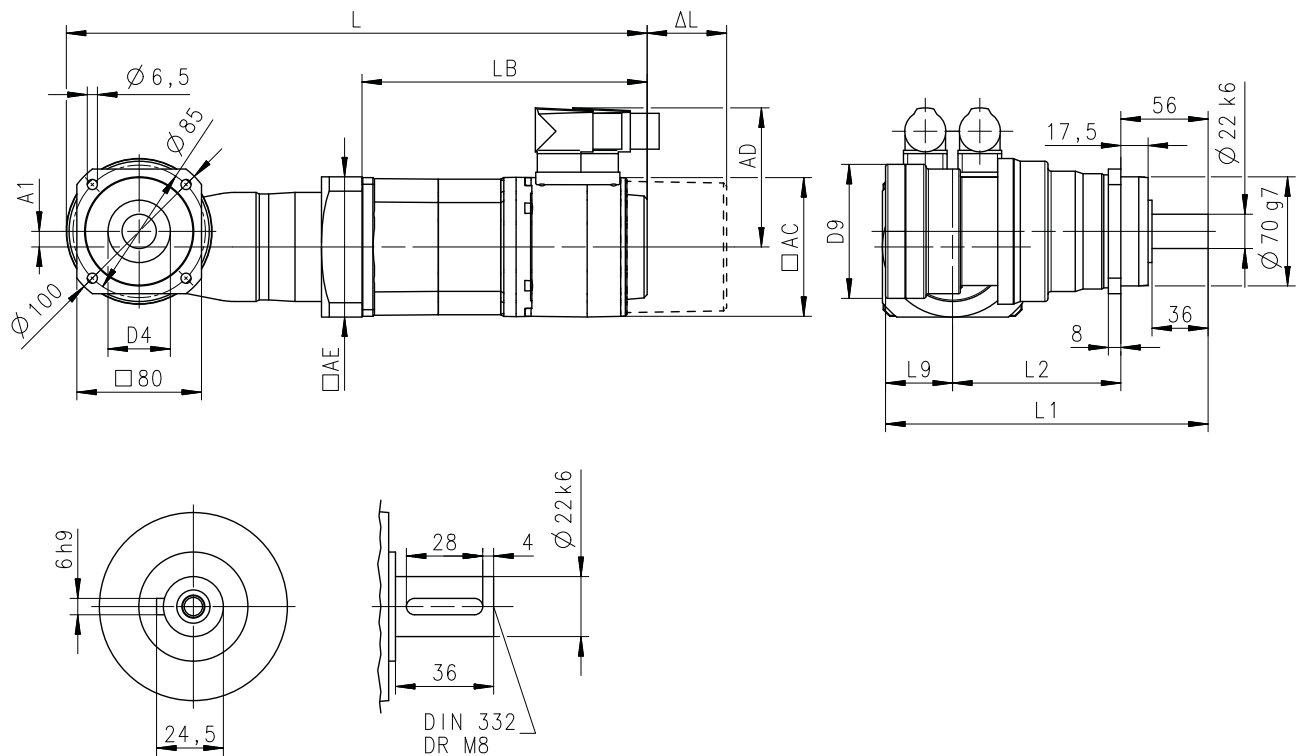


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B150 with MCS09

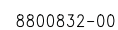
Gearbox design: Solid shaft, without foot with centering, 1-stage



8800832-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	385.5	385.5	405.5	405.5	425.5	425.5	465.5	465.5
Gearbox length	L1	mm	165	165	165	165	165	165	165	165
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90	90	90

Gearbox design: Solid shaft, without foot with centering, 2-stage

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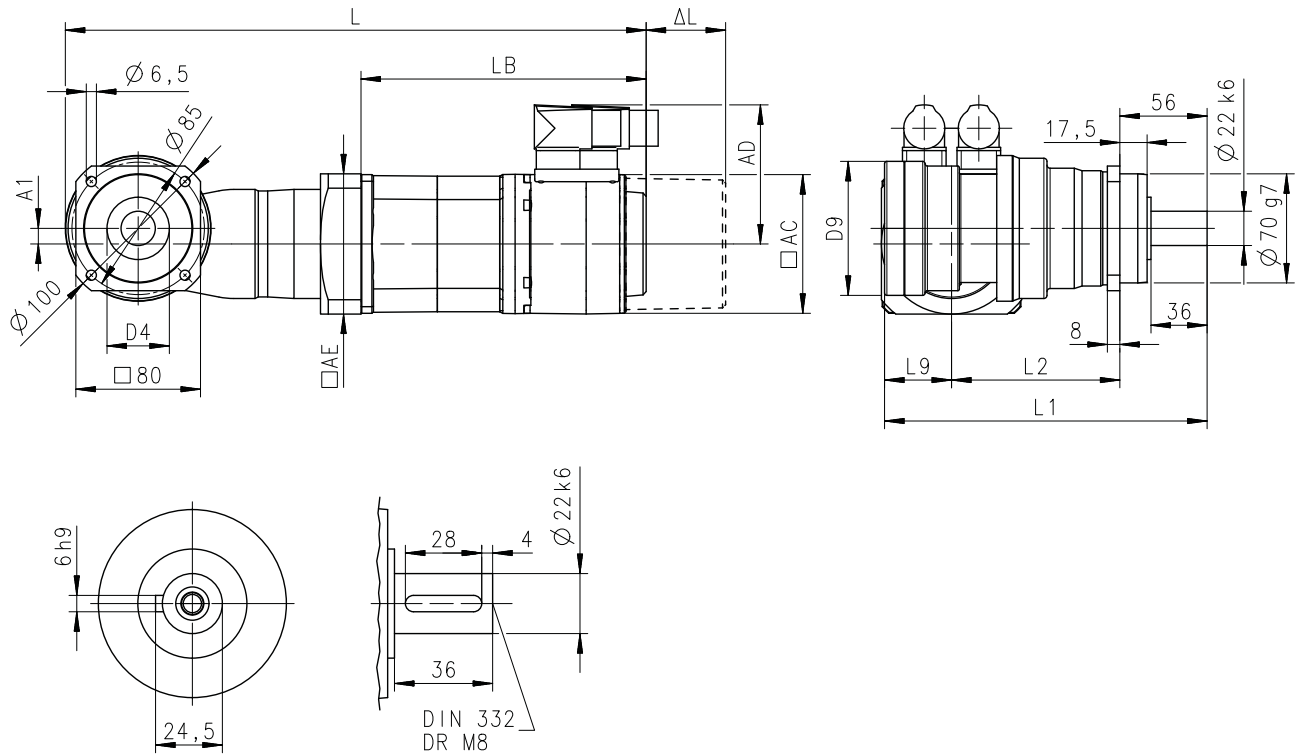


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B150 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800832-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	474.5	401.5	474.5	401.5	514.5	441.5	441.5	514.5	441.5	481.5	481.5
Gearbox length	L1	mm	165	165	165	165	165	165	165	165	165	165	165
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

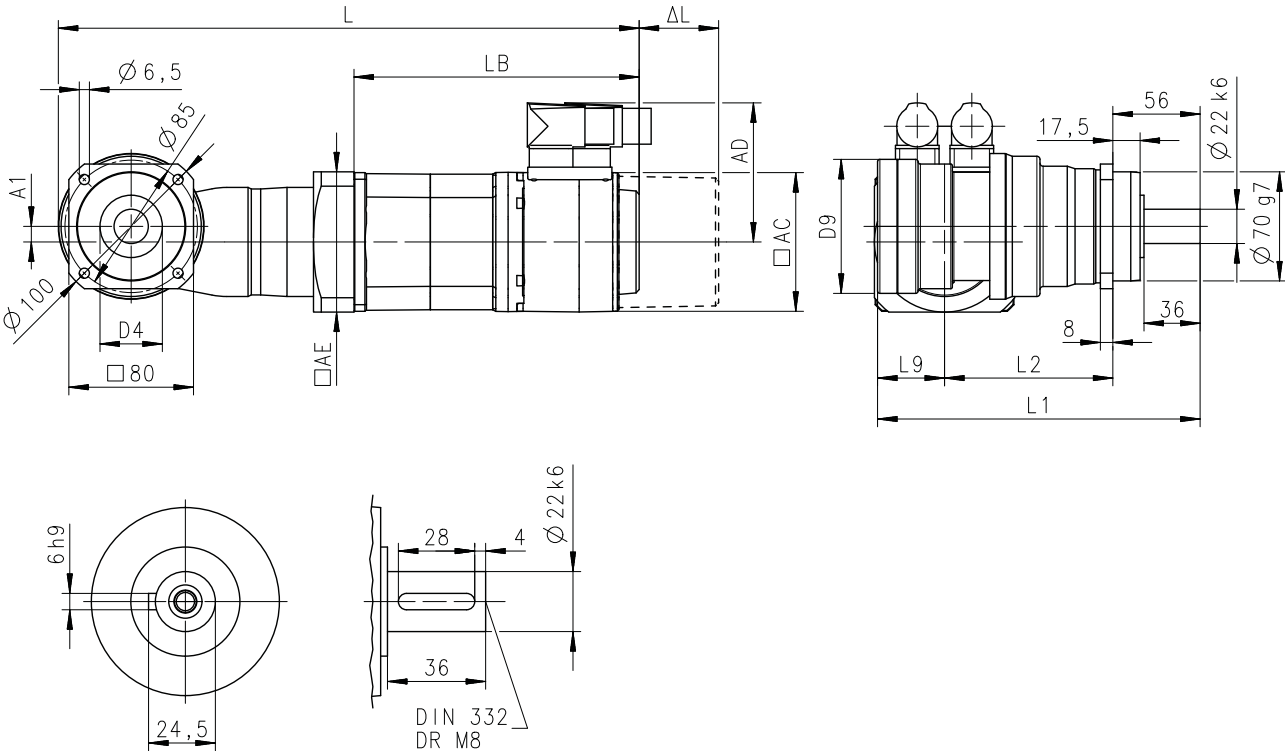
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B150 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



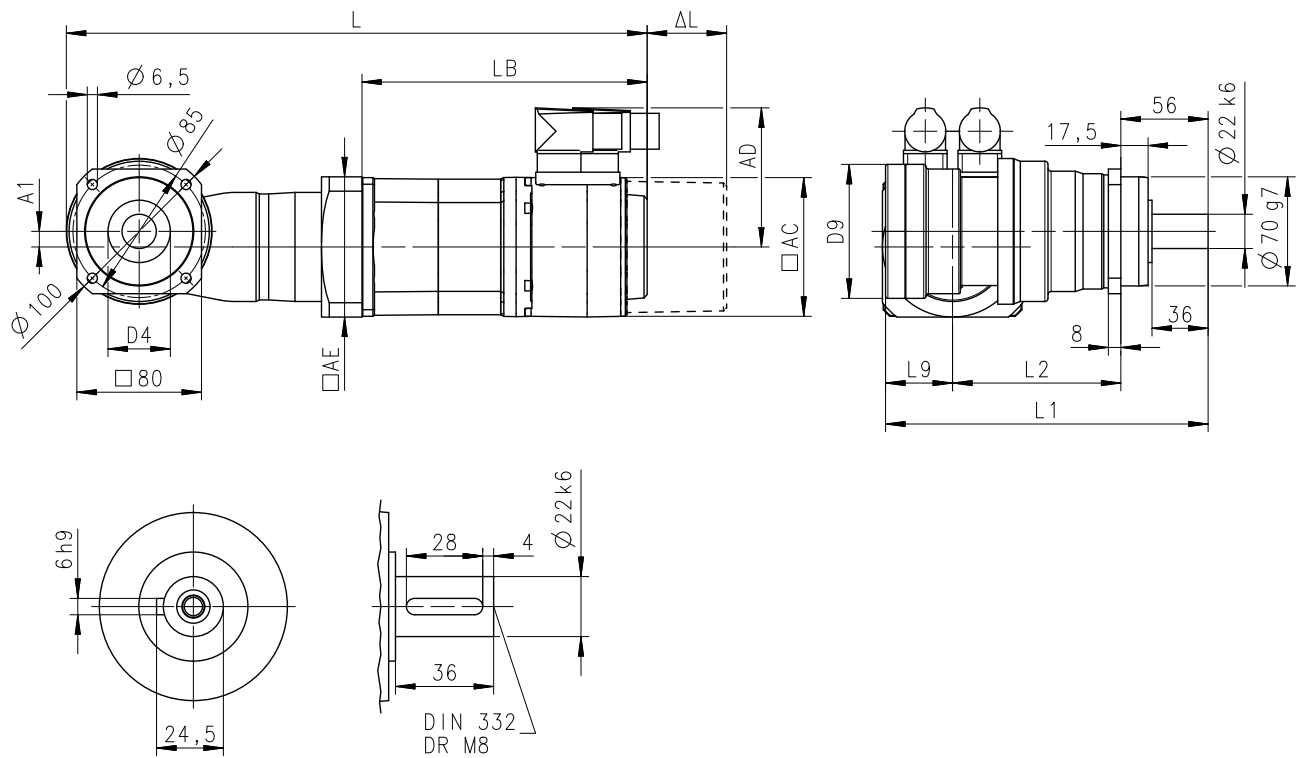
8800832-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	390.5	390.5
Gearbox length	L1	mm	207	207
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g850-B150 with MCS14

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800832-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	424	424
Gearbox length	L1	mm	165	165
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	142	142

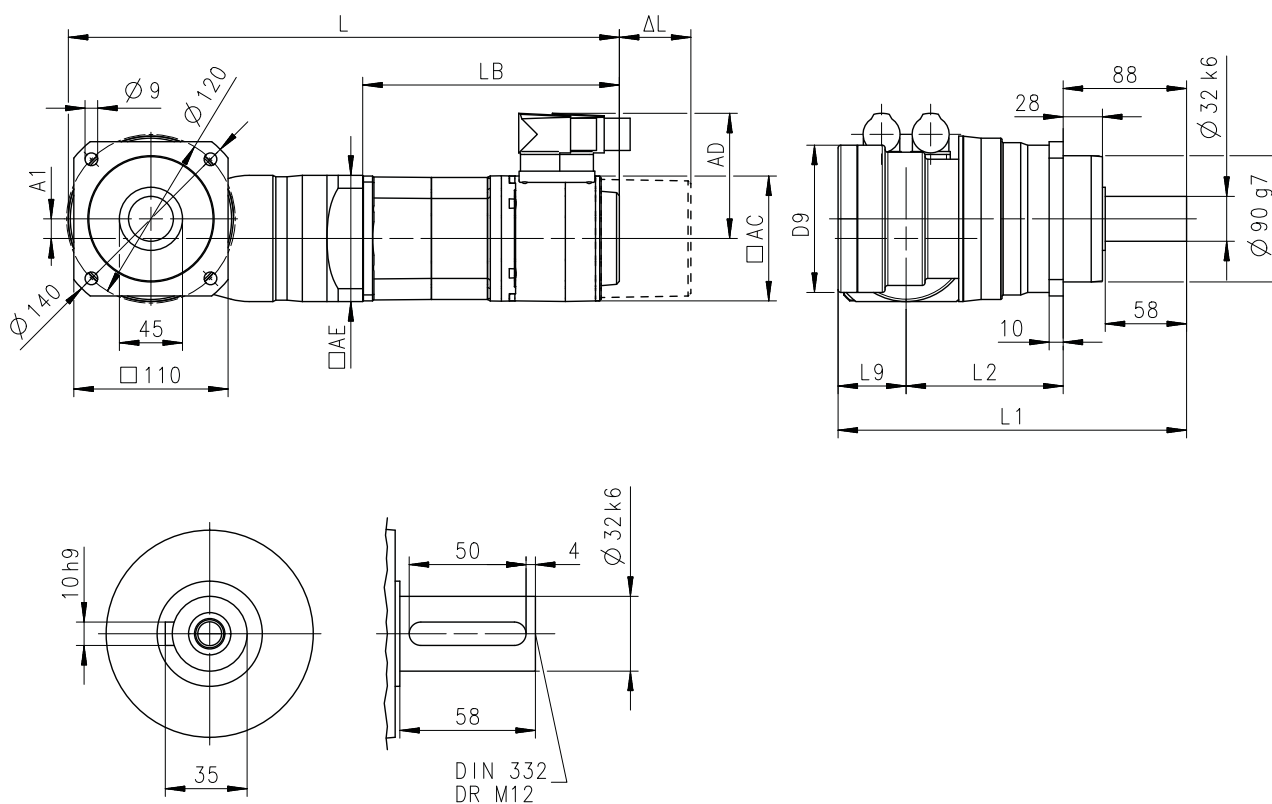
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B300 with MCS06

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800833-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	371.9	371.9	401.9	401.9
Gearbox length	L1	mm	248.5	248.5	248.5	248.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	90	90	90	90

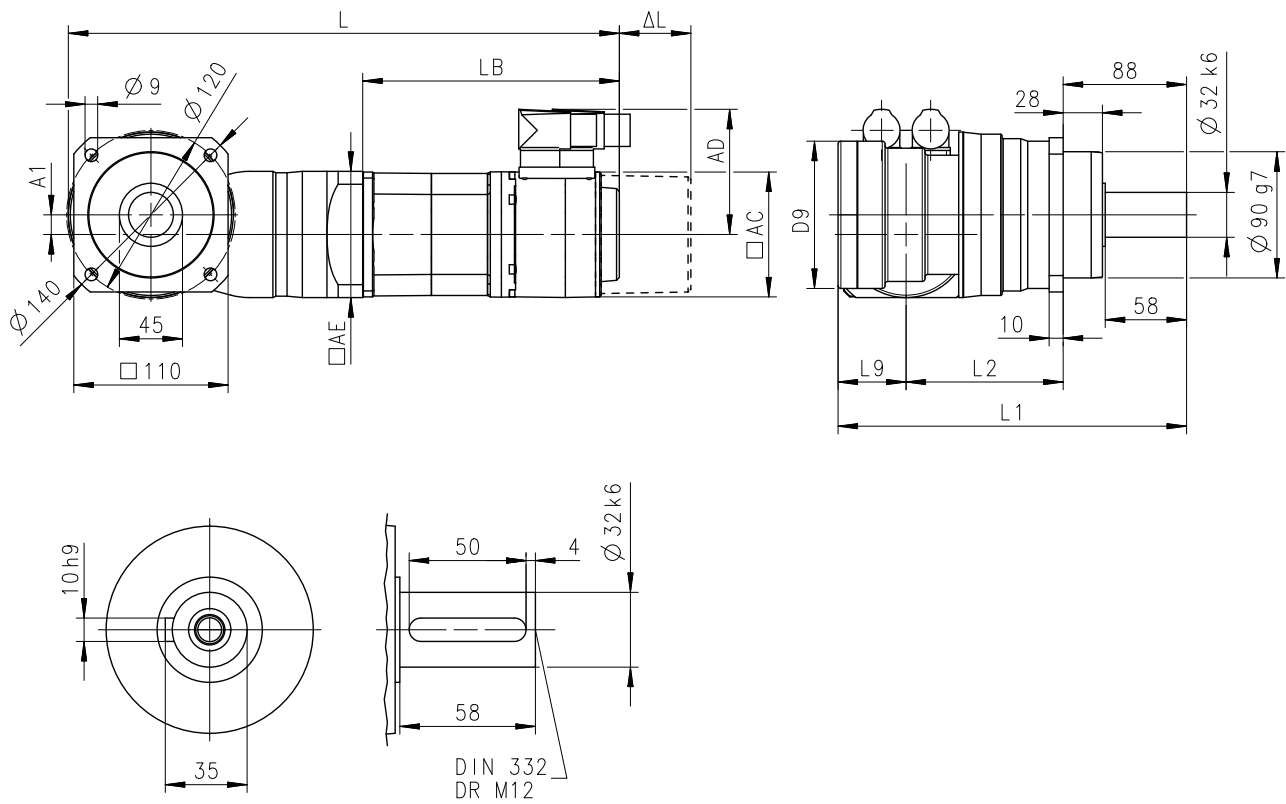


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B300 with MCS09

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800833-00

Motor			MCS 09
			L41- L41L
Total length	L	mm	509.5
Gearbox length	L1	mm	218
Motor length	LB	mm	262
Motor diameter	AC	mm	89
Motor/connection distance	AD	mm	90

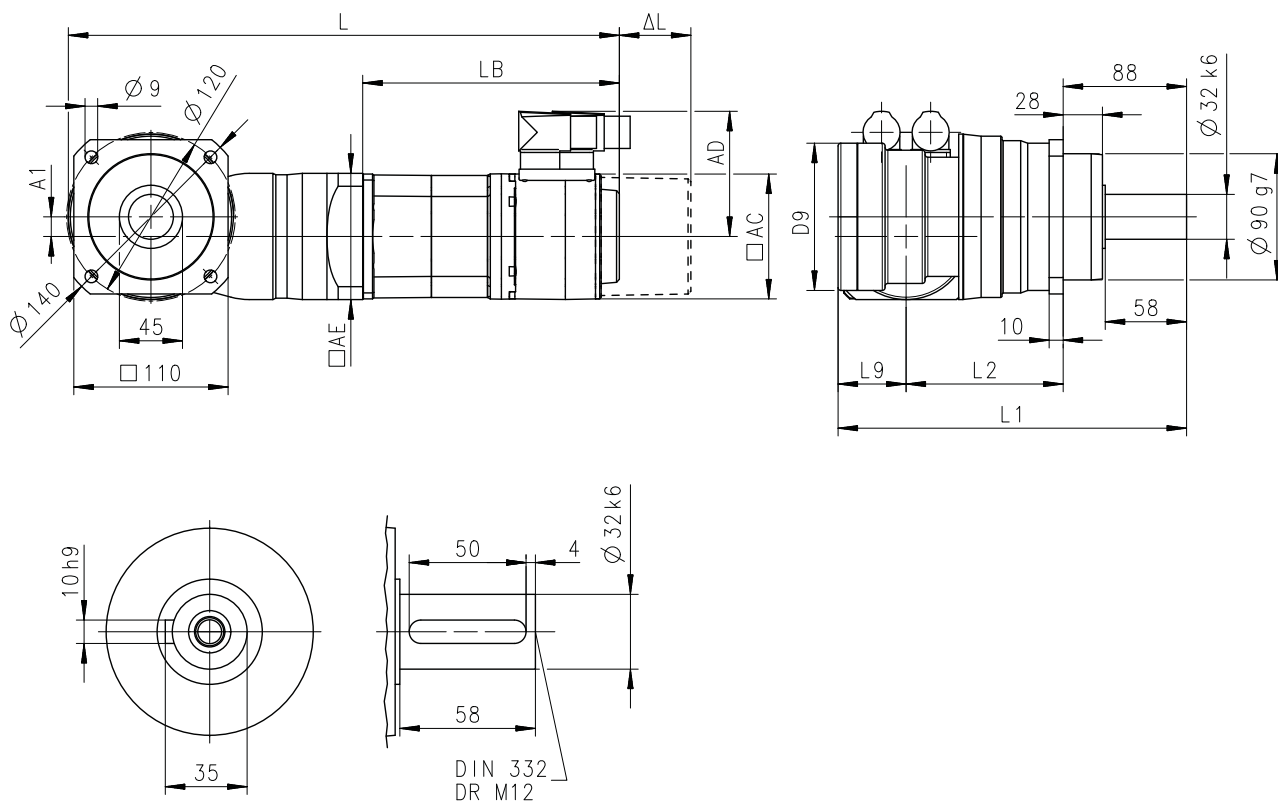
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B300 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



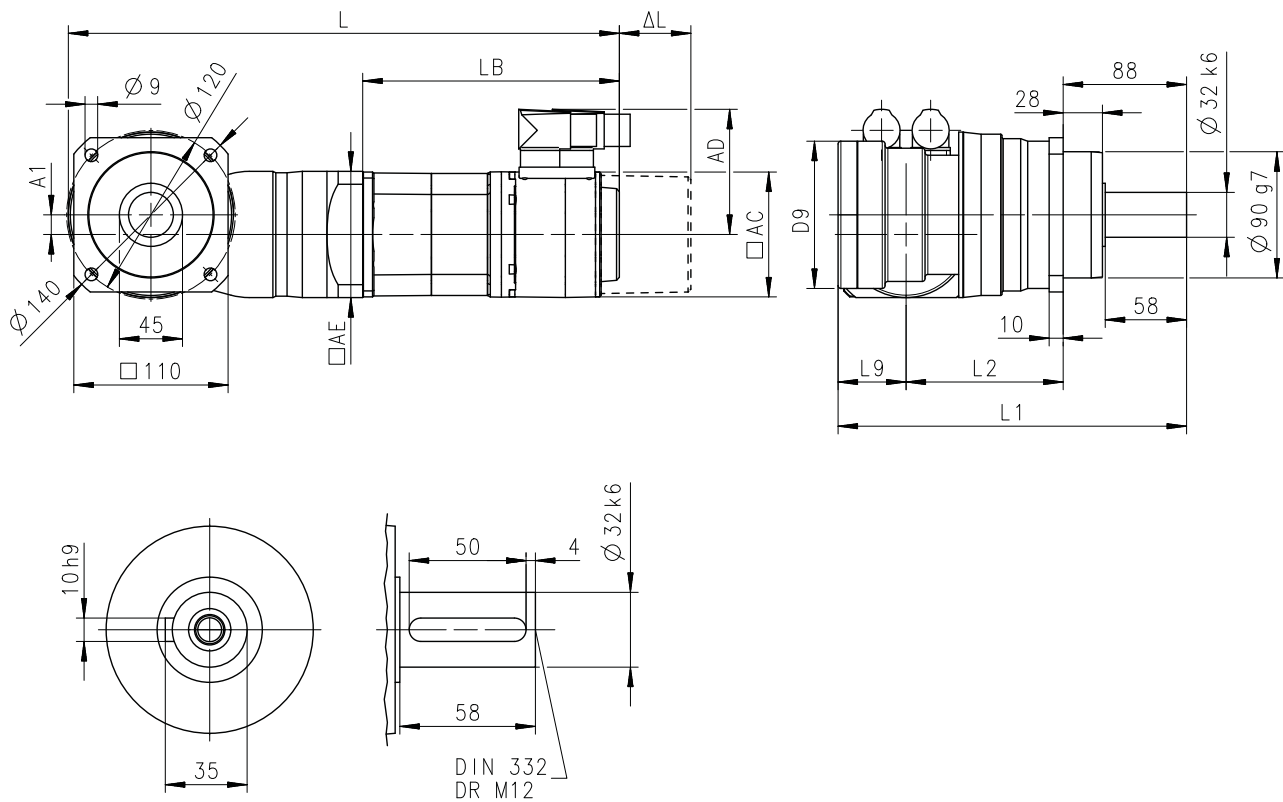
8800833-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	391.4	391.4	411.4	411.4	431.4	431.4	471.4	471.4
Gearbox length	L1	mm	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90	90	90



g850-B300 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800833-00

Motor			MCS 12												
			D17-	D20-	D35-	D41-	H14-	H15-	H30L	H34-	H35-	L17-	L20-	L39-	L41-
Total length	L	mm	508.5	435.5	508.5	435.5	548.5	475.5	475.5	548.5	475.5	598.5	515.5	588.5	515.5
Gearbox length	L1	mm	218	218	218	218	218	218	218	218	218	218	218	218	218
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	351	268	341	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	120	120	120	120	120	120	120	120	120	120	120	120	120

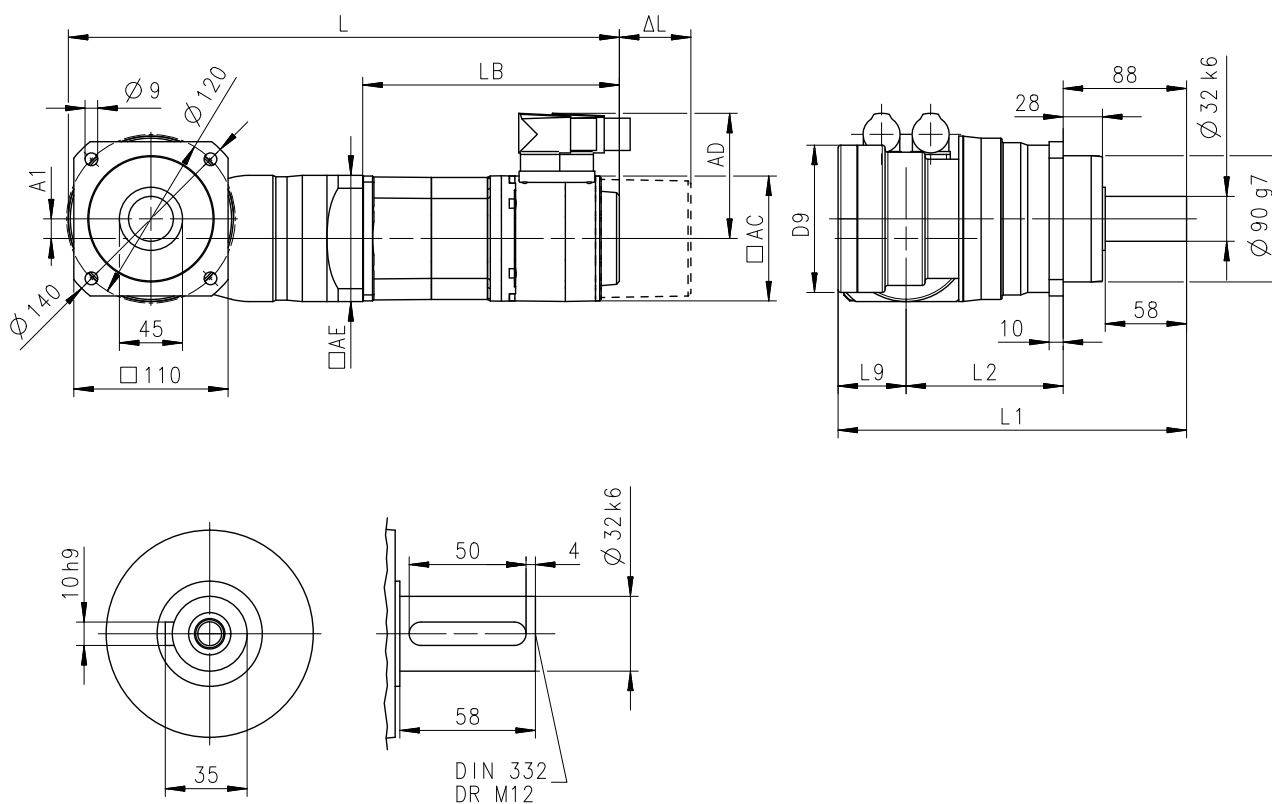
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B300 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800833-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	480.9	407.9	480.9	407.9	520.9	447.9	447.9	520.9	447.9	487.9	487.9
Gearbox length	L1	mm	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115



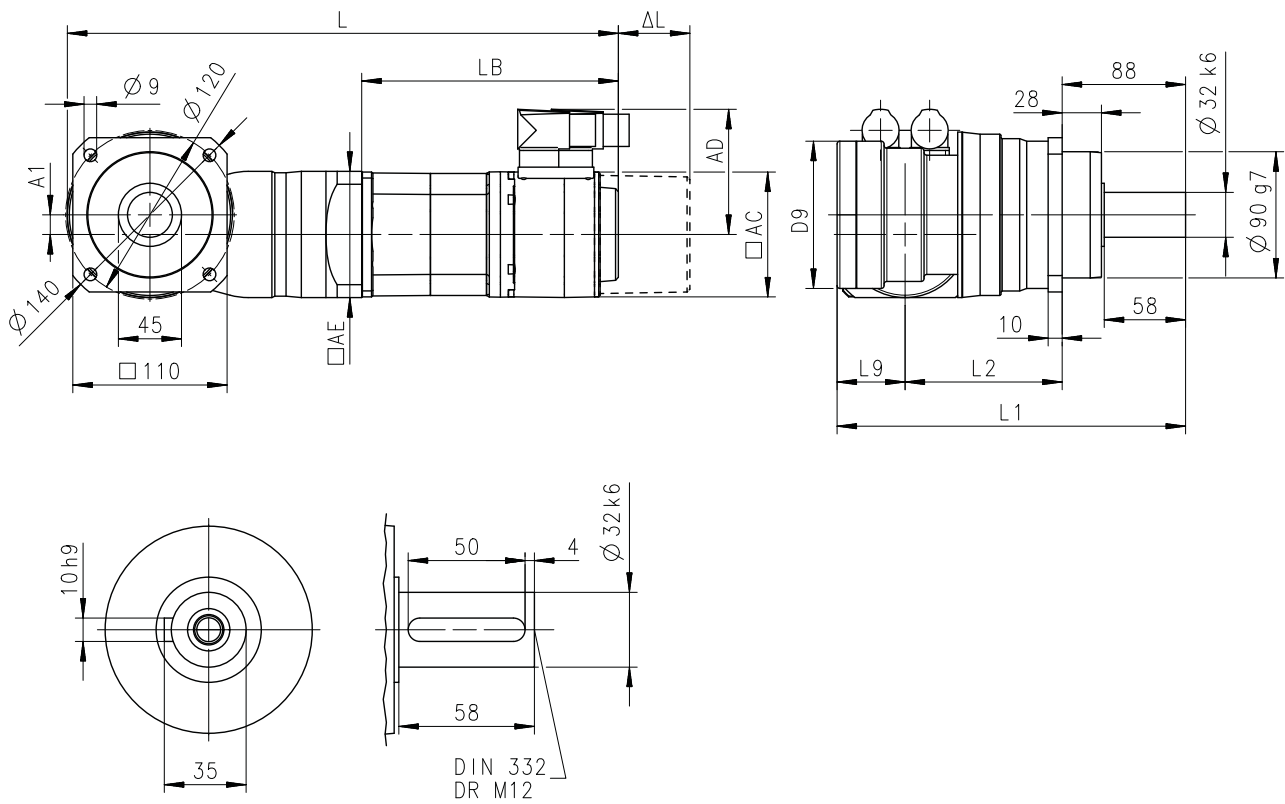
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B300 with MCS14

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800833-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	430.4	430.4
Gearbox length	L1	mm	248.5	248.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	142	142

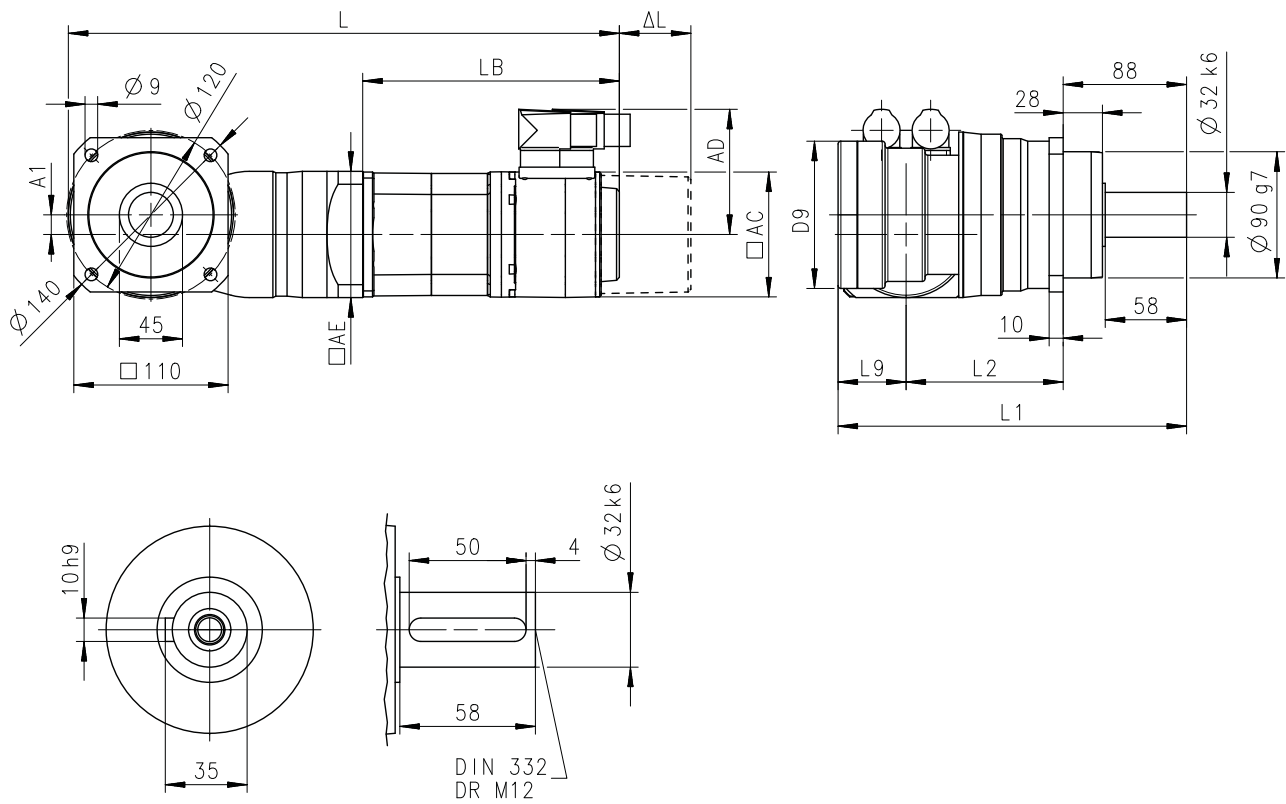


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B300 with MCS19

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800833-00

Motor			MCS 19	
			F14-	F30-
Total length	L	mm	497.5	497.5
Gearbox length	L1	mm	218	218
Motor length	LB	mm	220	220
Motor diameter	AC	mm	192	192
Motor/connection distance	AD	mm	142	171
Gearbox diameter	AE	mm	190	190

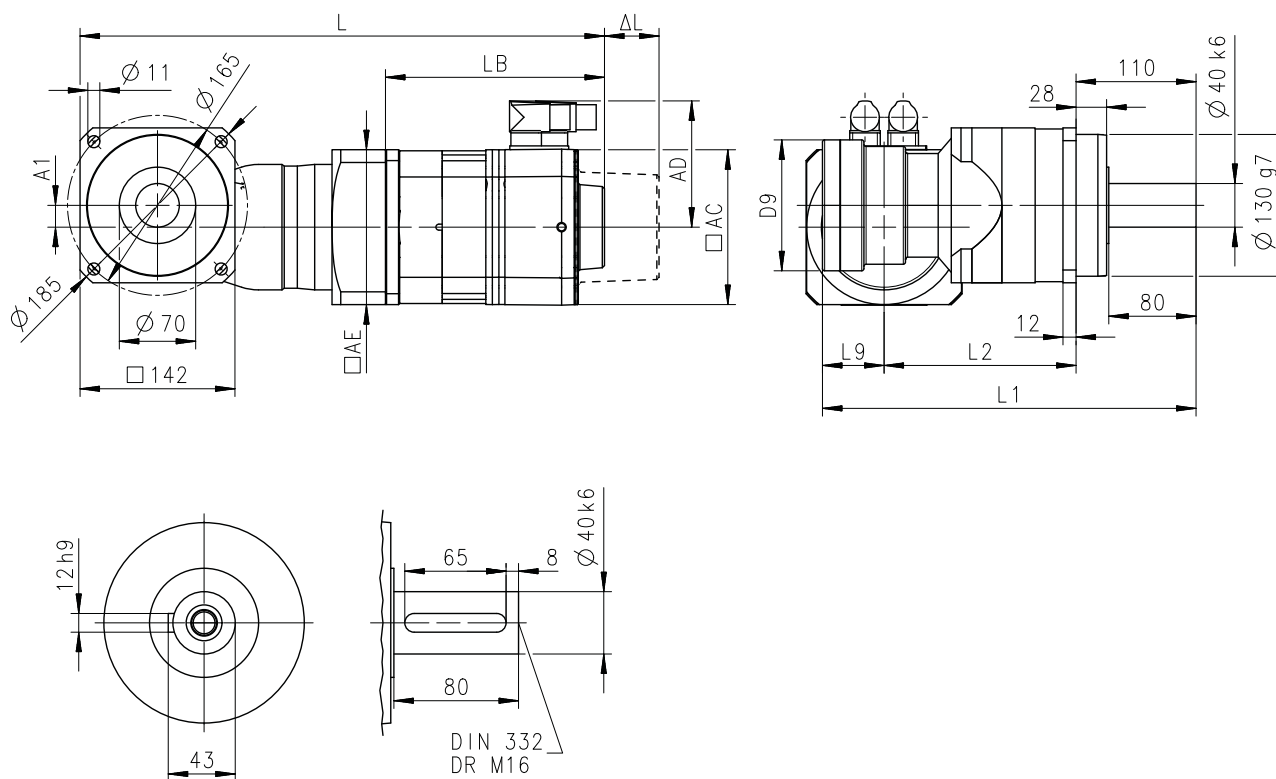
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B800 with MCS09

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800834-00

Motor			MCS 09				
			F38- F38L	H41- H41L	H60- H60L	L41- L41L	L51-
Total length	L	mm	460.5	480.5	480.5	520.5	520.5
Gearbox length	L1	mm	342.5	342.5	342.5	342.5	342.5
Motor length	LB	mm	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115

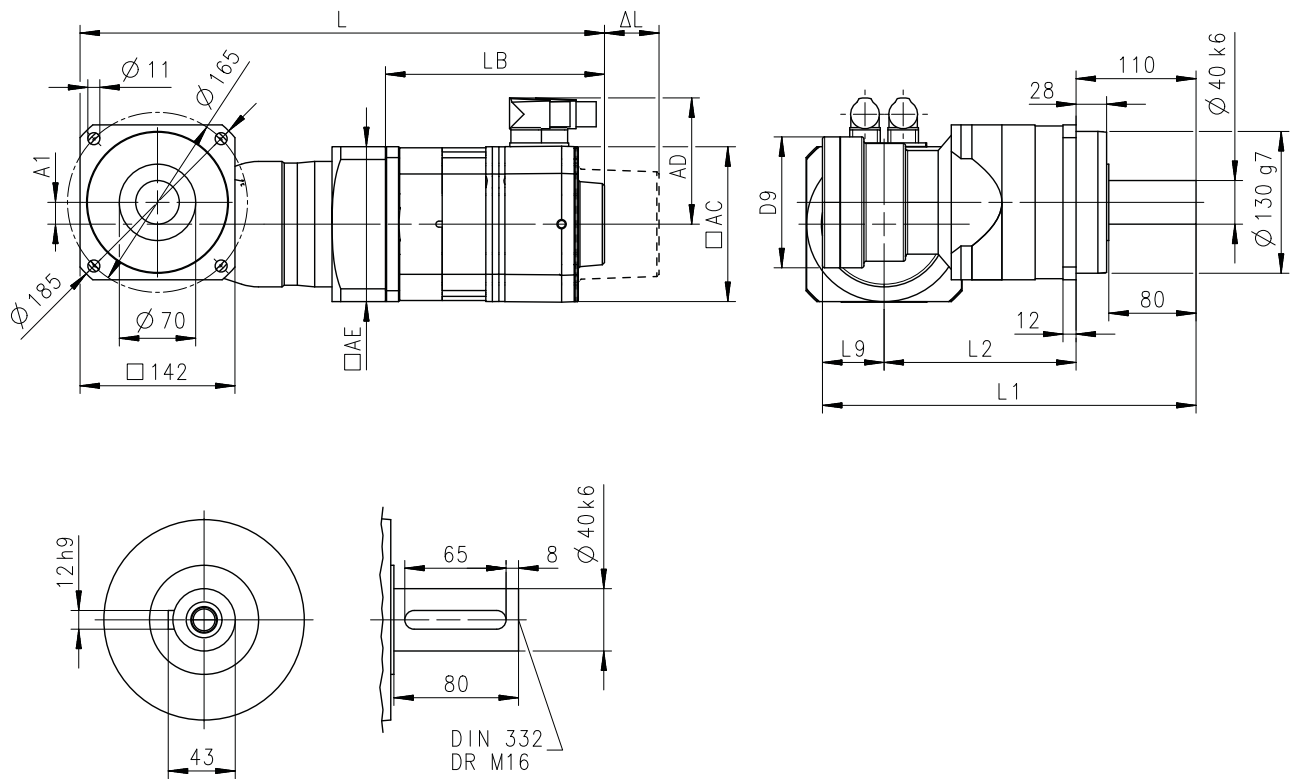


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B800 with MCS12

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800834-00

Motor			MCS 12				
			H14-	L17-	L20- L20L	L39-	L41-
Total length	L	mm	619	669	586	659	586
Gearbox length	L1	mm	273	273	273	273	273
Motor length	LB	mm	301	351	268	341	268
Motor diameter	AC	mm	140	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105
Gearbox diameter	AE	mm	142	142	142	142	142

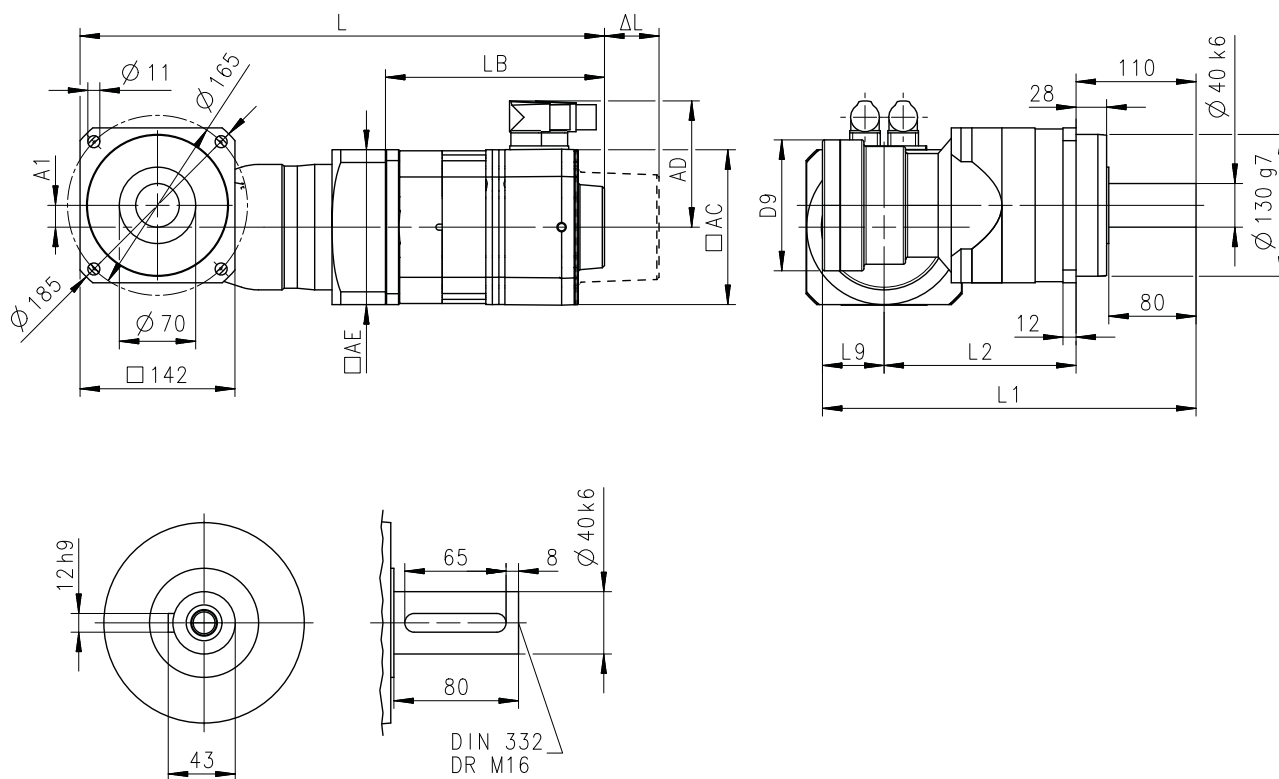
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B800 with MCS12

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800834-00

Motor			MCS 12												
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L17-	L20-L20L	L39-	L41-
Total length	L	mm	519.5	446.5	519.5	446.5	559.5	486.5	486.5	559.5	486.5	609.5	526.5	599.5	526.5
Gearbox length	L1	mm	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	351	268	341	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	120	120	120	120	120	120	120	120	120	120	120	120	120

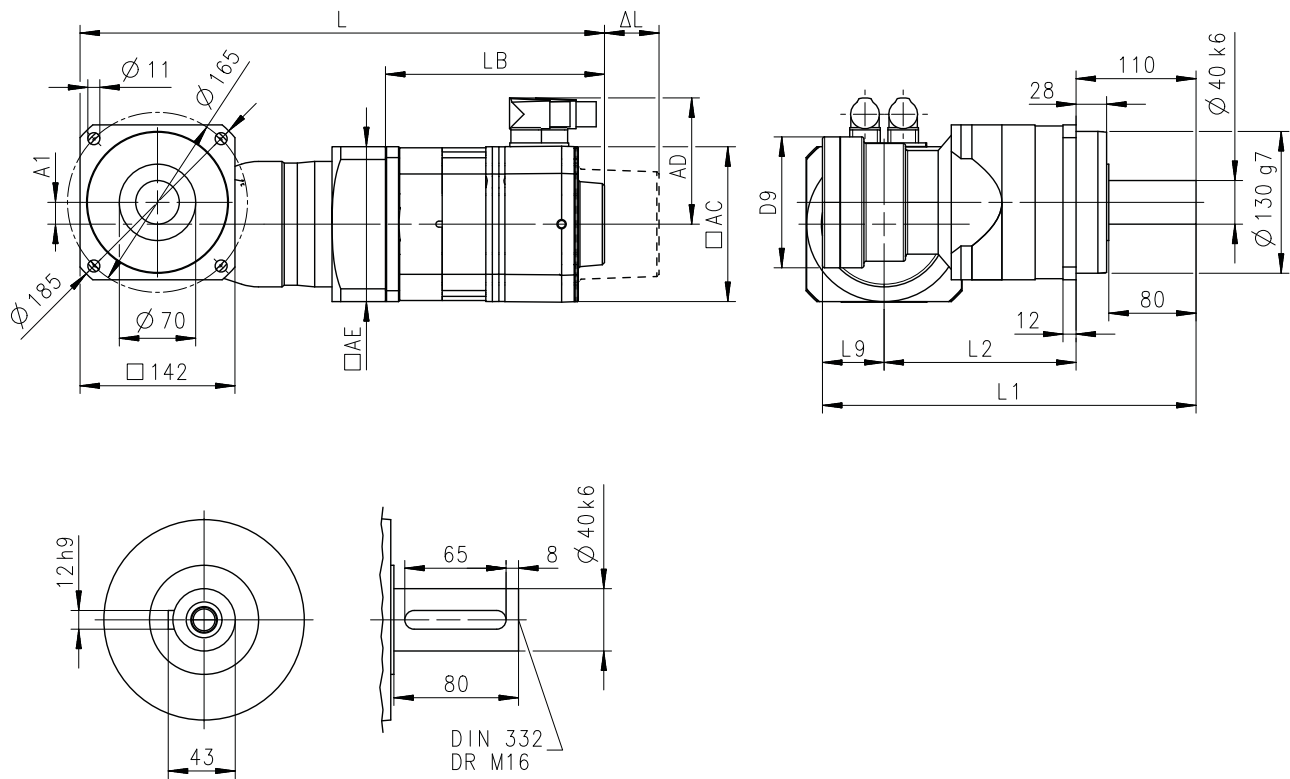


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B800 with MCS14

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800834-00

Motor			MCS 14												
			D14-	H12-	H15-	H28-	H32-	L14-	L15-	L30-	L32-	P11-	P14-	P26-	P32-
Total length	L	mm	607	647	559	647	559	687	599	687	599	727	639	727	639
Gearbox length	L1	mm	273	273	273	273	273	273	273	273	273	273	273	273	273
Motor length	LB	mm	289	329	241	329	241	369	281	369	281	409	321	409	321
Motor diameter	AC	mm	167	167	143	167	143	167	143	167	143	167	143	167	143
Motor/connection distance	AD	mm	117	117	117	146	117	117	117	146	146	117	117	146	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142	142	142	142

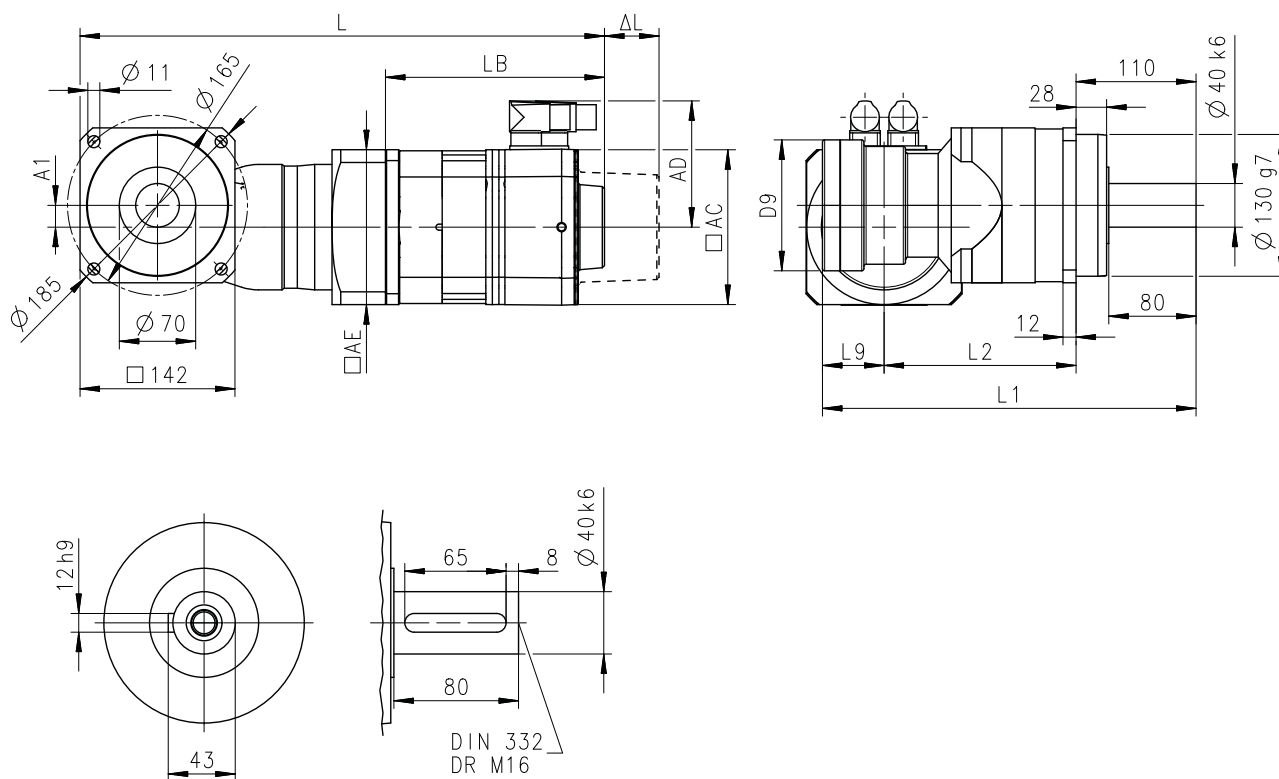
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B800 with MCS14

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800834-00

Motor			MCS 14									
			D14-	D15-	D30-	D36-	H12-	H15-	H28-	H32-	L15-	L32-
Total length	L	mm	557.5	469.5	557.5	469.5	597.5	509.5	597.5	509.5	549.5	549.5
Gearbox length	L1	mm	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
Motor length	LB	mm	289	201	289	201	329	241	329	241	281	281
Motor diameter	AC	mm	167	143	167	143	167	143	167	143	143	143
Motor/connection distance	AD	mm	117	117	117	117	117	117	146	117	117	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142

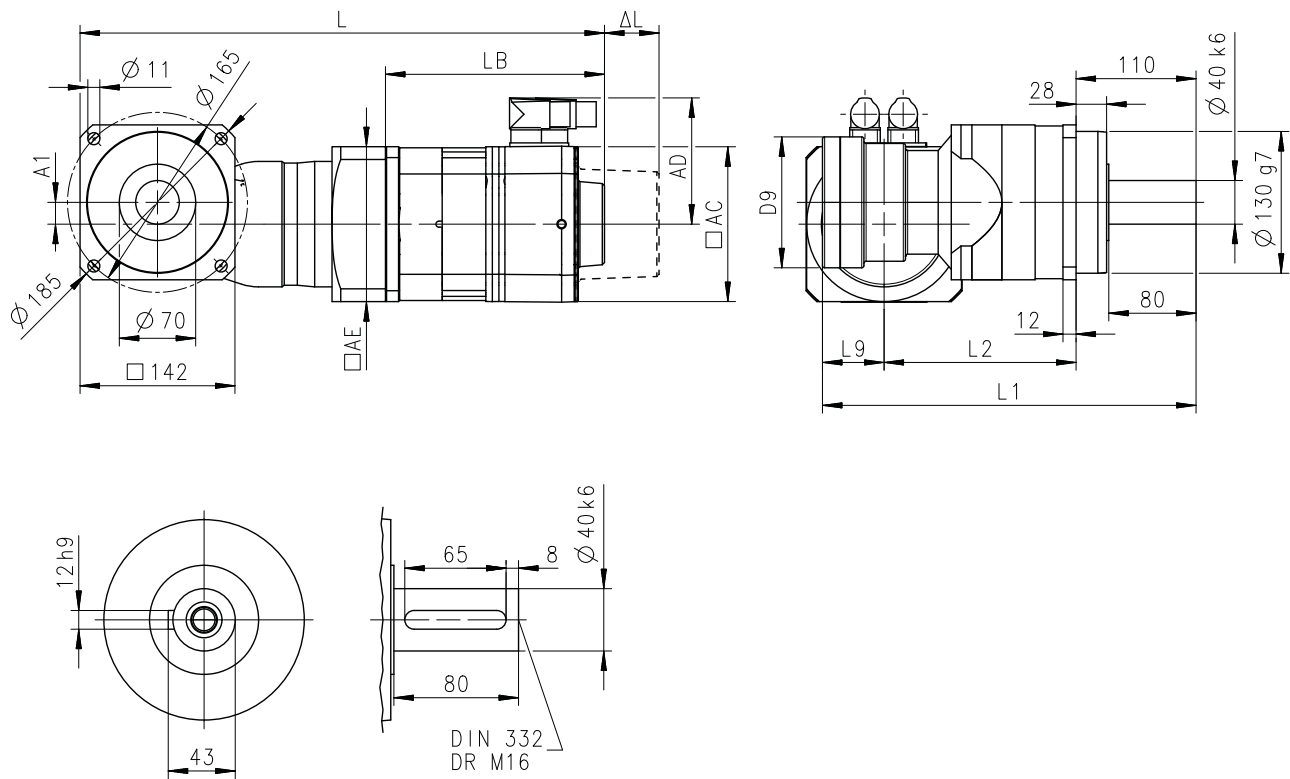


Technical data

Bevel gearbox g850-B
Basic dimensions

g850-B800 with MCS19

Gearbox design: Solid shaft, without foot with centering, 1-stage



8800834-00

Motor			MCS 19									
			F12-	F14-	F29-	F30-	J12-	J14-	J30-	P12-	P14-	P30-
Total length	L	mm	655	548	655	548	695	588	588	755	648	648
Gearbox length	L1	mm	273	273	273	273	273	273	273	273	273	273
Motor length	LB	mm	327	220	327	220	367	260	260	427	320	320
Motor diameter	AC	mm	212	192	212	192	212	192	192	212	192	192
Motor/connection distance	AD	mm	142	142	171	171	171	142	171	171	171	171
Gearbox diameter	AE	mm	190	190	190	190	190	190	190	190	190	190

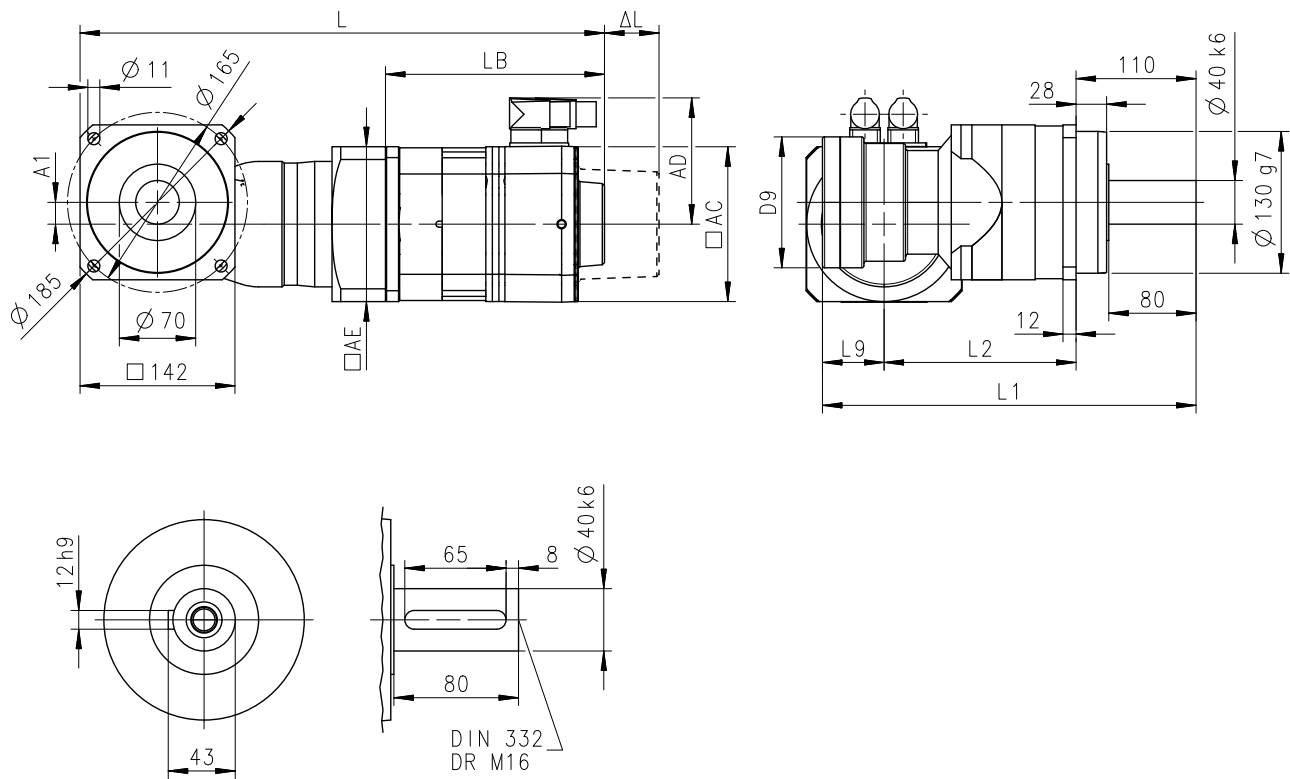
Technical data

Bevel gearbox g850-B
Basic dimensions



g850-B800 with MCS19

Gearbox design: Solid shaft, without foot with centering, 2-stage



8800834-00

Motor			MCS 19	
			F14-	F30-
Total length	L	mm	508.5	508.5
Gearbox length	L1	mm	342.5	342.5
Motor length	LB	mm	220	220
Motor diameter	AC	mm	192	192
Motor/connection distance	AD	mm	142	171
Gearbox diameter	AE	mm	190	190



Bevel gearbox g860-B

The modular system

g860-B bevel planetary gearbox with MCS synchronous servo motor

Gearbox		g860-B45	g860-B70	g860-B140	g860-B320
Min. motor assignment		MCS06	MCS09	MCS12	MCS12
Max. motor assignment		MCS12	MCS14	MCS19	MCS19
Technical data					
Max. output torque	Nm	45	70	140	320
Min. input torque	Nm	0.6	4.5	17	17
Max. input torque	Nm	17	42	72	72
Mounting position		Any			
Color		Primed Painted in RAL colors			
Surface and corrosion protection		OKS-G Different types of OKS			
Output shaft					
Single-sided hollow shaft on output drive	mm	15 x 20	20 x 25	30 x 30	40 x 35
Two-sided hollow shaft on output drive	mm	15 x 20 on both sides	20 x 25 on both sides	30 x 30 on both sides	40 x 35 on both sides
Shaft material		Steel			
Shaft sealing ring material		NBR			
Gearbox design		Without foot with centering			
Gearbox stages		1	1	1	1
Output flange	mm	70	90	115	142
Lubricant		Standard Food compatible			
Cooling		Self-ventilated Forced ventilated			
Motor connection		Connector Terminal box			
Holding brake		Without With			
Feedback					
Without functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder			
With functional safety		Digital absolute value encoder for One Cable Technology (OCT) Resolver Absolute value encoder			
Temperature monitoring		MCS06: PT1000 temperature sensor MCS09 ... MCS19: PT1000 temperature sensor and 2x PTC thermistor			



Gearbox data

g860-B45, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	45.0	5	2
5	42.0	5	2
7	28.0	5	2
8	27.0	5	2
10	22.0	5	2

g860-B70, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	70.0	5	6
5	70.0	5	5
7	51.0	5	5
8	50.0	5	5
10	40.0	5	4

g860-B140, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	140	5	12
5	140	5	12
7	91.0	5	11
8	90.0	5	10
10	75.0	5	9

g860-B320, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	320	5	32
5	280	5	30
7	189	5	28
8	180	5	26
10	160	5	24



Radial forces and axial forces

Gearbox			g860-B45	g860-B70	g860-B140	g860-B320
Number of stages	z		1	1	1	1
Bearing service life 20000 h						
Speed		rpm	100	100	100	100
Radial force	F_{rad}	N	2700	4000	6500	10000
Axial force	F_{ax}	N	4300	5900	7000	14500
Bearing service life 30000 h						
Speed		rpm	100	100	100	100
Radial force	F_{rad}	N	2700	4000	6500	10000
Axial force	F_{ax}	N	3700	5200	6100	12000
Max. radial force	$F_{rad, max}$	N	2700	4000	6500	10000
Max. axial force	$F_{ax, max}$	N	4300	5900	7000	14500

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Selection tables

Inverter power supply 400 V, self-ventilated motors

0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.0	1013	5.2	45.0	503	1.054	4	B45	06F41-	1	5.7
4.0	1013	5.2	45.0	503	1.054	4	B45	06F41L	1	5.7
5.2	810	4.3	42.0	405	0.824	5	B45	06F41-	1	5.7
5.2	810	4.3	42.0	405	0.824	5	B45	06F41L	1	5.7
7.5	579	3.6	28.0	289	0.756	7	B45	06F41-	1	5.7
7.5	579	3.6	28.0	289	0.756	7	B45	06F41L	1	5.7
8.5	506	3.1	27.0	253	0.741	8	B45	06F41-	1	5.7
8.5	506	3.1	27.0	253	0.741	8	B45	06F41L	1	5.7
10.0	405	1.8	22.0	203	0.722	10	B45	06F41-	1	5.7
10.0	405	1.8	22.0	203	0.722	10	B45	06F41L	1	5.7

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
5.5	857	4.3	28.0	338	0.756	7	B45	06F60-	1	5.7
5.5	857	4.3	28.0	338	0.756	7	B45	06F60L	1	5.7
6.4	750	3.7	27.0	296	0.741	8	B45	06F60-	1	5.7
6.4	750	3.7	27.0	296	0.741	8	B45	06F60L	1	5.7
7.7	600	2.1	22.0	237	0.722	10	B45	06F60-	1	5.7
7.7	600	2.1	22.0	237	0.722	10	B45	06F60L	1	5.7

0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
5.2	1013	4.2	45.0	483	1.134	4	B45	06I41-	1	6.4
5.2	1013	4.2	45.0	483	1.134	4	B45	06I41L	1	6.4
6.4	810	4.8	70.0	405	1.540	5	B70	06I41-	1	8.4
6.4	810	4.8	70.0	405	1.540	5	B70	06I41L	1	8.4
6.8	810	3.4	42.0	404	0.904	5	B45	06I41-	1	6.4
6.8	810	3.4	42.0	404	0.904	5	B45	06I41L	1	6.4
9.3	579	2.9	28.0	289	0.836	7	B45	06I41-	1	6.4
9.3	579	2.9	28.0	289	0.836	7	B45	06I41L	1	6.4
9.4	579	3.7	51.0	289	1.396	7	B70	06I41-	1	8.4
9.4	579	3.7	51.0	289	1.396	7	B70	06I41L	1	8.4
11.0	506	2.5	27.0	253	0.821	8	B45	06I41-	1	6.4
11.0	506	2.5	27.0	253	0.821	8	B45	06I41L	1	6.4
11.0	506	3.1	50.0	253	1.359	8	B70	06I41-	1	8.4
11.0	506	3.1	50.0	253	1.359	8	B70	06I41L	1	8.4
13.0	405	1.4	22.0	203	0.802	10	B45	06I41-	1	6.4
13.0	405	1.4	22.0	203	0.802	10	B45	06I41L	1	6.4
13.0	405	2.6	40.0	203	1.318	10	B70	06I41-	1	8.4
13.0	405	2.6	40.0	203	1.318	10	B70	06I41L	1	8.4



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.1	1500	4.6	45.0	492	1.134	4	B45	06I60-	1	6.4
4.1	1500	4.6	45.0	492	1.134	4	B45	06I60L	1	6.4
5.3	1200	3.8	42.0	412	0.904	5	B45	06I60-	1	6.4
5.3	1200	3.8	42.0	412	0.904	5	B45	06I60L	1	6.4
7.5	857	3.2	28.0	329	0.836	7	B45	06I60-	1	6.4
7.5	857	3.2	28.0	329	0.836	7	B45	06I60L	1	6.4
8.5	750	2.7	27.0	288	0.821	8	B45	06I60-	1	6.4
8.5	750	2.7	27.0	288	0.821	8	B45	06I60L	1	6.4
10.0	600	1.6	22.0	232	0.802	10	B45	06I60-	1	6.4
10.0	600	1.6	22.0	232	0.802	10	B45	06I60L	1	6.4

1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.1	1013	3.9	70.0	466	2.517	4	B70	09D41-	1	9.8
8.1	1013	3.9	70.0	466	2.517	4	B70	09D41L	1	9.9
8.6	1013	2.7	45.0	443	1.934	4	B45	09D41-	1	7.8
8.6	1013	2.7	45.0	443	1.934	4	B45	09D41L	1	7.9
11.0	810	2.2	42.0	375	1.704	5	B45	09D41-	1	7.8
11.0	810	2.2	42.0	375	1.704	5	B45	09D41L	1	7.9
11.0	810	3.1	70.0	381	2.340	5	B70	09D41-	1	9.8
11.0	810	3.1	70.0	381	2.340	5	B70	09D41L	1	9.9
14.0	579	1.9	28.0	289	1.636	7	B45	09D41-	1	7.8
14.0	579	1.9	28.0	289	1.636	7	B45	09D41L	1	7.9
15.0	579	2.4	51.0	289	2.196	7	B70	09D41-	1	9.8
15.0	579	2.4	51.0	289	2.196	7	B70	09D41L	1	9.9
16.0	506	1.6	27.0	253	1.621	8	B45	09D41-	1	7.8
16.0	506	1.6	27.0	253	1.621	8	B45	09D41L	1	7.9
17.0	506	2.0	50.0	253	2.159	8	B70	09D41-	1	9.8
17.0	506	2.0	50.0	253	2.159	8	B70	09D41L	1	9.9
20.0	405	1.7	40.0	203	2.118	10	B70	09D41-	1	9.8
20.0	405	1.7	40.0	203	2.118	10	B70	09D41L	1	9.9

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.2	1500	4.4	70.0	477	2.517	4	B70	09D60-	1	9.8
6.2	1500	4.4	70.0	477	2.517	4	B70	09D60L	1	9.9
6.6	1500	3.1	45.0	455	1.934	4	B45	09D60-	1	7.8
6.6	1500	3.1	45.0	455	1.934	4	B45	09D60L	1	7.9
8.1	1200	3.6	70.0	389	2.340	5	B70	09D60-	1	9.8
8.1	1200	3.6	70.0	389	2.340	5	B70	09D60L	1	9.9
8.4	1200	2.6	42.0	384	1.704	5	B45	09D60-	1	7.8
8.4	1200	2.6	42.0	384	1.704	5	B45	09D60L	1	7.9
11.0	857	2.2	28.0	317	1.636	7	B45	09D60-	1	7.8
11.0	857	2.2	28.0	317	1.636	7	B45	09D60L	1	7.9
11.0	857	2.8	51.0	315	2.196	7	B70	09D60-	1	9.8
11.0	857	2.8	51.0	315	2.196	7	B70	09D60L	1	9.9
13.0	750	1.8	27.0	275	1.621	8	B45	09D60-	1	7.8
13.0	750	1.8	27.0	275	1.621	8	B45	09D60L	1	7.9
13.0	750	2.3	50.0	270	2.159	8	B70	09D60-	1	9.8
13.0	750	2.3	50.0	270	2.159	8	B70	09D60L	1	9.9
15.0	600	1.1	22.0	226	1.602	10	B45	09D60-	1	7.8
15.0	600	1.1	22.0	226	1.602	10	B45	09D60L	1	7.9
16.0	600	1.9	40.0	227	2.118	10	B70	09D60-	1	9.8
16.0	600	1.9	40.0	227	2.118	10	B70	09D60L	1	9.9
19.0	488	4.4	140	244	10.111	4	B140	12D20-	1	16
19.0	488	4.4	140	244	10.111	4	B140	12D20L	1	16
21.0	488	1.4	45.0	244	5.072	4	B45	12D20-	1	10
21.0	488	1.4	45.0	244	5.072	4	B45	12D20L	1	10
21.0	488	2.0	70.0	244	5.417	4	B70	12D20-	1	12
21.0	488	2.0	70.0	244	5.417	4	B70	12D20L	1	12
25.0	390	3.6	140	195	9.517	5	B140	12D20-	1	16
25.0	390	3.6	140	195	9.517	5	B140	12D20L	1	16
26.0	390	1.2	42.0	195	4.841	5	B45	12D20-	1	10
26.0	390	1.2	42.0	195	4.841	5	B45	12D20L	1	10
26.0	390	1.6	70.0	195	5.240	5	B70	12D20-	1	12
26.0	390	1.6	70.0	195	5.240	5	B70	12D20L	1	12
34.0	279	2.7	91.0	139	9.028	7	B140	12D20-	1	16
34.0	279	2.7	91.0	139	9.028	7	B140	12D20L	1	16
35.0	279	1.3	51.0	139	5.096	7	B70	12D20-	1	12
35.0	279	1.3	51.0	139	5.096	7	B70	12D20L	1	12
39.0	244	2.3	90.0	122	8.938	8	B140	12D20-	1	16
39.0	244	2.3	90.0	122	8.938	8	B140	12D20L	1	16
40.0	244	1.1	50.0	122	5.059	8	B70	12D20-	1	12
40.0	244	1.1	50.0	122	5.059	8	B70	12D20L	1	12
47.0	195	1.6	75.0	98.0	8.805	10	B140	12D20-	1	16
47.0	195	1.6	75.0	98.0	8.805	10	B140	12D20L	1	16



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	938	2.9	70.0	442	2.917	4	B70	09F38-	1	11
11.0	938	2.9	70.0	442	2.917	4	B70	09F38L	1	11
12.0	938	2.1	45.0	417	2.334	4	B45	09F38-	1	8.7
12.0	938	2.1	45.0	417	2.334	4	B45	09F38L	1	8.8
14.0	750	1.7	42.0	356	2.104	5	B45	09F38-	1	8.7
14.0	750	1.7	42.0	356	2.104	5	B45	09F38L	1	8.8
15.0	750	2.4	70.0	364	2.740	5	B70	09F38-	1	11
15.0	750	2.4	70.0	364	2.740	5	B70	09F38L	1	11
19.0	536	1.4	28.0	268	2.036	7	B45	09F38-	1	8.7
19.0	536	1.4	28.0	268	2.036	7	B45	09F38L	1	8.8
20.0	536	1.8	51.0	268	2.596	7	B70	09F38-	1	11
20.0	536	1.8	51.0	268	2.596	7	B70	09F38L	1	11
22.0	469	1.2	27.0	234	2.021	8	B45	09F38-	1	8.7
22.0	469	1.2	27.0	234	2.021	8	B45	09F38L	1	8.8
23.0	469	1.5	50.0	234	2.559	8	B70	09F38-	1	11
23.0	469	1.5	50.0	234	2.559	8	B70	09F38L	1	11
27.0	375	1.3	40.0	188	2.518	10	B70	09F38-	1	11
27.0	375	1.3	40.0	188	2.518	10	B70	09F38L	1	11

1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	375	2.9	140	188	14.211	4	B140	14D15-	1	39
35.0	375	1.3	70.0	188	10.795	4	B70	14D15-	1	34
43.0	300	1.1	70.0	150	10.618	5	B70	14D15-	1	34
43.0	300	2.3	140	150	13.617	5	B140	14D15-	1	39
57.0	214	1.6	91.0	107	13.128	7	B140	14D15-	1	39
66.0	188	1.4	90.0	94.0	13.038	8	B140	14D15-	1	39

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.7	1500	3.3	70.0	452	2.917	4	B70	09F60-	1	11
8.7	1500	3.3	70.0	452	2.917	4	B70	09F60L	1	11
9.0	1500	2.3	45.0	428	2.334	4	B45	09F60-	1	8.7
9.0	1500	2.3	45.0	428	2.334	4	B45	09F60L	1	8.8
11.0	1200	1.9	42.0	364	2.104	5	B45	09F60-	1	8.7
11.0	1200	1.9	42.0	364	2.104	5	B45	09F60L	1	8.8
11.0	1200	2.7	70.0	371	2.740	5	B70	09F60-	1	11
11.0	1200	2.7	70.0	371	2.740	5	B70	09F60L	1	11
15.0	857	1.6	28.0	308	2.036	7	B45	09F60-	1	8.7
15.0	857	1.6	28.0	308	2.036	7	B45	09F60L	1	8.8
15.0	857	2.1	51.0	304	2.596	7	B70	09F60-	1	11
15.0	857	2.1	51.0	304	2.596	7	B70	09F60L	1	11
17.0	750	1.4	27.0	266	2.021	8	B45	09F60-	1	8.7
17.0	750	1.4	27.0	266	2.021	8	B45	09F60L	1	8.8
17.0	750	1.7	50.0	261	2.559	8	B70	09F60-	1	11
17.0	750	1.7	50.0	261	2.559	8	B70	09F60L	1	11
21.0	600	1.4	40.0	222	2.518	10	B70	09F60-	1	11
21.0	600	1.4	40.0	222	2.518	10	B70	09F60L	1	11

1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
14.0	1013	1.6	45.0	396	2.734	4	B45	09H41-	1	9.6
14.0	1013	1.6	45.0	396	2.734	4	B45	09H41L	1	9.7
14.0	1013	2.4	70.0	423	3.317	4	B70	09H41-	1	12
14.0	1013	2.4	70.0	423	3.317	4	B70	09H41L	1	12
18.0	810	1.4	42.0	341	2.504	5	B45	09H41-	1	9.6
18.0	810	1.4	42.0	341	2.504	5	B45	09H41L	1	9.7
18.0	810	1.9	70.0	350	3.140	5	B70	09H41-	1	12
18.0	810	1.9	70.0	350	3.140	5	B70	09H41L	1	12
24.0	579	1.2	28.0	289	2.436	7	B45	09H41-	1	9.6
24.0	579	1.2	28.0	289	2.436	7	B45	09H41L	1	9.7
24.0	579	1.5	51.0	289	2.996	7	B70	09H41-	1	12
24.0	579	1.5	51.0	289	2.996	7	B70	09H41L	1	12
28.0	506	1.2	50.0	250	2.959	8	B70	09H41-	1	12
28.0	506	1.2	50.0	250	2.959	8	B70	09H41L	1	12
33.0	405	1.0	40.0	203	2.918	10	B70	09H41-	1	12
33.0	405	1.0	40.0	203	2.918	10	B70	09H41L	1	12
37.0	375	2.6	140	188	13.411	4	B140	12H15-	1	19
37.0	375	2.6	140	188	13.411	4	B140	12H15L	1	19
38.0	375	1.2	70.0	188	8.717	4	B70	12H15-	1	15
38.0	375	1.2	70.0	188	8.717	4	B70	12H15L	1	15
47.0	300	2.1	140	150	12.817	5	B140	12H15-	1	19
47.0	300	2.1	140	150	12.817	5	B140	12H15L	1	19
62.0	214	1.5	91.0	107	12.328	7	B140	12H15-	1	19
62.0	214	1.5	91.0	107	12.328	7	B140	12H15L	1	19
71.0	188	1.3	90.0	94.0	12.238	8	B140	12H15-	1	19
71.0	188	1.3	90.0	94.0	12.238	8	B140	12H15L	1	19



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1013	1.5	45.0	384	5.072	4	B45	12D41-	1	10
16.0	1013	1.5	45.0	384	5.072	4	B45	12D41L	1	10
16.0	1013	2.1	70.0	412	5.417	4	B70	12D41-	1	12
16.0	1013	2.1	70.0	412	5.417	4	B70	12D41L	1	12
20.0	810	1.2	42.0	332	4.841	5	B45	12D41-	1	10
20.0	810	1.2	42.0	332	4.841	5	B45	12D41L	1	10
20.0	810	1.7	70.0	342	5.240	5	B70	12D41-	1	12
20.0	810	1.7	70.0	342	5.240	5	B70	12D41L	1	12
27.0	579	1.0	28.0	289	4.774	7	B45	12D41-	1	10
27.0	579	1.0	28.0	289	4.774	7	B45	12D41L	1	10
27.0	579	1.3	51.0	288	5.096	7	B70	12D41-	1	12
27.0	579	1.3	51.0	288	5.096	7	B70	12D41L	1	12
27.0	579	2.9	91.0	205	9.028	7	B140	12D41-	1	16
27.0	579	2.9	91.0	205	9.028	7	B140	12D41L	1	16
31.0	506	1.1	50.0	246	5.059	8	B70	12D41-	1	12
31.0	506	1.1	50.0	246	5.059	8	B70	12D41L	1	12
31.0	506	2.4	90.0	176	8.938	8	B140	12D41-	1	16
31.0	506	2.4	90.0	176	8.938	8	B140	12D41L	1	16
37.0	405	2.0	75.0	146	8.805	10	B140	12D41-	1	16
37.0	405	2.0	75.0	146	8.805	10	B140	12D41L	1	16

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1500	1.8	45.0	407	2.734	4	B45	09H60-	1	9.6
11.0	1500	1.8	45.0	407	2.734	4	B45	09H60L	1	9.7
11.0	1500	2.6	70.0	433	3.317	4	B70	09H60-	1	12
11.0	1500	2.6	70.0	433	3.317	4	B70	09H60L	1	12
14.0	1275	2.3	70.0	422	4.217	4	B70	09L51-	1	13
14.0	1200	1.5	42.0	349	2.504	5	B45	09H60-	1	9.6
14.0	1200	1.5	42.0	349	2.504	5	B45	09H60L	1	9.7
14.0	1200	2.1	70.0	357	3.140	5	B70	09H60-	1	12
14.0	1200	2.1	70.0	357	3.140	5	B70	09H60L	1	12
17.0	1020	1.9	70.0	349	4.040	5	B70	09L51-	1	13
17.0	1013	2.0	70.0	408	4.217	4	B70	09L41-	1	13
17.0	1013	2.0	70.0	408	4.217	4	B70	09L41L	1	14
19.0	857	1.3	28.0	301	2.436	7	B45	09H60-	1	9.6
19.0	857	1.3	28.0	301	2.436	7	B45	09H60L	1	9.7
19.0	857	1.7	51.0	296	2.996	7	B70	09H60-	1	12
19.0	857	1.7	51.0	296	2.996	7	B70	09H60L	1	12
20.0	810	3.5	140	255	8.317	5	B140	09L41-	1	18
20.0	810	3.5	140	255	8.317	5	B140	09L41L	1	18
21.0	810	1.6	70.0	339	4.040	5	B70	09L41-	1	13
21.0	810	1.6	70.0	339	4.040	5	B70	09L41L	1	14
21.0	750	1.1	27.0	259	2.421	8	B45	09H60-	1	9.6
21.0	750	1.1	27.0	259	2.421	8	B45	09H60L	1	9.7
22.0	750	1.4	50.0	254	2.959	8	B70	09H60-	1	12
22.0	750	1.4	50.0	254	2.959	8	B70	09H60L	1	12
23.0	729	1.5	51.0	292	3.896	7	B70	09L51-	1	13
26.0	638	1.2	50.0	250	3.859	8	B70	09L51-	1	13
26.0	600	1.1	40.0	217	2.918	10	B70	09H60-	1	12
26.0	600	1.1	40.0	217	2.918	10	B70	09H60L	1	12
28.0	579	2.8	91.0	204	7.828	7	B140	09L41-	1	18
28.0	579	2.8	91.0	204	7.828	7	B140	09L41L	1	18
29.0	579	1.2	51.0	286	3.896	7	B70	09L41-	1	13
29.0	579	1.2	51.0	286	3.896	7	B70	09L41L	1	14
32.0	506	2.3	90.0	175	7.738	8	B140	09L41-	1	18
32.0	506	2.3	90.0	175	7.738	8	B140	09L41L	1	18
33.0	506	1.0	50.0	245	3.859	8	B70	09L41-	1	13
33.0	506	1.0	50.0	245	3.859	8	B70	09L41L	1	14
39.0	405	1.9	75.0	145	7.605	10	B140	09L41-	1	18
39.0	405	1.9	75.0	145	7.605	10	B140	09L41L	1	18



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	750	1.2	70.0	367	8.717	4	B70	12H30L	1	15
30.0	750	2.7	140	291	13.411	4	B140	12H30L	1	19
37.0	600	2.2	140	234	12.817	5	B140	12H30L	1	19
50.0	429	1.7	91.0	195	12.328	7	B140	12H30L	1	19
57.0	375	1.4	90.0	168	12.238	8	B140	12H30L	1	19
57.0	375	3.6	320	188	33.105	4	B320	14H15-	1	59
60.0	375	1.6	140	188	20.311	4	B140	14H15-	1	43
69.0	300	1.1	75.0	136	12.105	10	B140	12H30L	1	19
74.0	300	1.3	140	150	19.717	5	B140	14H15-	1	43
74.0	300	2.9	280	150	30.452	5	B320	14H15-	1	59
101	214	1.9	189	107	28.225	7	B320	14H15-	1	59
118	188	1.5	180	94.0	27.768	8	B320	14H15-	1	59
147	150	1.1	160	75.0	27.134	10	B320	14H15-	1	59

2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
28.0	900	2.7	140	291	14.211	4	B140	14D36-	1	39
28.0	881	2.7	140	292	13.411	4	B140	12H35-	1	19
29.0	900	1.2	70.0	368	10.795	4	B70	14D36-	1	34
29.0	881	1.2	70.0	368	8.717	4	B70	12H35-	1	15
35.0	720	2.2	140	234	13.617	5	B140	14D36-	1	39
35.0	705	1.0	70.0	310	8.540	5	B70	12H35-	1	15
35.0	705	2.2	140	234	12.817	5	B140	12H35-	1	19
47.0	514	1.7	91.0	195	13.128	7	B140	14D36-	1	39
47.0	504	1.7	91.0	195	12.328	7	B140	12H35-	1	19
48.0	488	3.9	320	244	29.505	4	B320	12L20-	1	38
48.0	488	3.9	320	244	29.505	4	B320	12L20L	1	38
51.0	488	1.8	140	244	16.711	4	B140	12L20-	1	22
51.0	488	1.8	140	244	16.711	4	B140	12L20L	1	23
53.0	450	1.4	90.0	168	13.038	8	B140	14D36-	1	39
53.0	441	1.4	90.0	168	12.238	8	B140	12H35-	1	19
62.0	390	3.2	280	195	26.852	5	B320	12L20-	1	38
62.0	390	3.2	280	195	26.852	5	B320	12L20L	1	38
63.0	390	1.5	140	195	16.117	5	B140	12L20-	1	22
63.0	390	1.5	140	195	16.117	5	B140	12L20L	1	23
65.0	360	1.2	75.0	137	12.905	10	B140	14D36-	1	39
65.0	353	1.2	75.0	137	12.105	10	B140	12H35-	1	19
84.0	279	1.1	91.0	139	15.628	7	B140	12L20-	1	22
84.0	279	1.1	91.0	139	15.628	7	B140	12L20L	1	23
85.0	279	2.2	189	139	24.625	7	B320	12L20-	1	38
85.0	279	2.2	189	139	24.625	7	B320	12L20L	1	38
99.0	244	1.8	180	122	24.168	8	B320	12L20-	1	38
99.0	244	1.8	180	122	24.168	8	B320	12L20L	1	38
124	195	1.3	160	98.0	23.534	10	B320	12L20-	1	38
124	195	1.3	160	98.0	23.534	10	B320	12L20L	1	38

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



3.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
86.0	375	1.1	140	188	29.511	4	B140	14L15-	1	48
86.0	375	2.5	320	188	42.305	4	B320	14L15-	1	64
108	300	2.0	280	150	39.652	5	B320	14L15-	1	64
145	214	1.3	189	107	37.425	7	B320	14L15-	1	64
169	188	1.1	180	94.0	36.968	8	B320	14L15-	1	64

4 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
103	356	2.2	320	178	83.905	4	B320	19F14-	1	74
127	285	1.7	280	143	81.252	5	B320	19F14-	1	74
170	204	1.1	189	102	79.025	7	B320	19F14-	1	74

4.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
114	338	2.0	320	169	53.605	4	B320	14P14-	1	69
141	270	1.6	280	135	50.952	5	B320	14P14-	1	69
189	193	1.0	189	96.0	48.725	7	B320	14P14-	1	69

4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	1013	3.9	320	261	29.505	4	B320	12L41-	1	38
41.0	1013	1.8	140	269	16.711	4	B140	12L41-	1	22
50.0	810	3.1	280	202	26.852	5	B320	12L41-	1	38
51.0	810	1.4	140	216	16.117	5	B140	12L41-	1	22
51.0	806	3.3	320	252	33.105	4	B320	14H32-	1	59
53.0	806	1.5	140	259	20.311	4	B140	14H32-	1	43
65.0	645	1.2	140	208	19.717	5	B140	14H32-	1	43
65.0	645	2.6	280	196	30.452	5	B320	14H32-	1	59
69.0	579	1.1	91.0	188	15.628	7	B140	12L41-	1	22
69.0	579	2.5	189	169	24.625	7	B320	12L41-	1	38
81.0	506	2.0	180	148	24.168	8	B320	12L41-	1	38
88.0	461	2.1	189	167	28.225	7	B320	14H32-	1	59
101	405	1.6	160	126	23.534	10	B320	12L41-	1	38
103	403	1.7	180	146	27.768	8	B320	14H32-	1	59
129	323	1.2	160	123	27.134	10	B320	14H32-	1	59



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

5.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
64.0	806	2.7	320	241	42.305	4	B320	14L32-	1	64
65.0	806	1.2	140	248	29.511	4	B140	14L32-	1	48
81.0	645	2.1	280	188	39.652	5	B320	14L32-	1	64
108	461	1.7	189	164	37.425	7	B320	14L32-	1	64
127	403	1.4	180	143	36.968	8	B320	14L32-	1	64
158	323	1.0	160	120	36.334	10	B320	14L32-	1	64

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
152	356	1.5	320	178	123.905	4	B320	19J14-	1	81
188	285	1.2	280	143	121.252	5	B320	19J14-	1	81

6.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
79.0	750	1.0	140	238	72.309	4	B140	19F30-	1	58
80.0	750	2.2	320	231	83.905	4	B320	19F30-	1	74
99.0	600	1.8	280	182	81.252	5	B320	19F30-	1	74
132	429	1.4	189	162	79.025	7	B320	19F30-	1	74
155	375	1.2	180	140	78.568	8	B320	19F30-	1	74

7.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
80.0	806	2.2	320	230	53.605	4	B320	14P32-	1	69
99.0	645	1.8	280	181	50.952	5	B320	14P32-	1	69
132	461	1.4	189	162	48.725	7	B320	14P32-	1	69
155	403	1.1	180	139	48.268	8	B320	14P32-	1	69

7.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
194	338	1.2	320	169	178.905	4	B320	19P14-	1	91

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
110	750	1.6	320	213	123.905	4	B320	19J30-	1	81
136	600	1.3	280	170	121.252	5	B320	19J30-	1	81
183	429	1.0	189	158	119.025	7	B320	19J30-	1	81

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



10 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
122	750	1.5	320	208	178.905	4	B320	19P30-	1	91
150	600	1.2	280	166	176.252	5	B320	19P30-	1	91



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
25.0	413	3.6	140	206	10.111	4	B140	12D17-	1	18
27.0	413	1.7	70.0	206	5.417	4	B70	12D17-	1	14
32.0	330	3.0	140	165	9.517	5	B140	12D17-	1	18
33.0	330	1.4	70.0	165	5.240	5	B70	12D17-	1	14
44.0	236	2.1	91.0	118	9.028	7	B140	12D17-	1	18
45.0	236	1.0	51.0	118	5.096	7	B70	12D17-	1	14
50.0	206	1.8	90.0	103	8.938	8	B140	12D17-	1	18
60.0	165	1.3	75.0	83.0	8.805	10	B140	12D17-	1	18

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
40.0	338	5.0	320	169	26.205	4	B320	12H14-	1	37
40.0	338	5.0	320	169	27.005	4	B320	14D14-	1	58
45.0	338	2.3	140	169	13.411	4	B140	12H14-	1	21
45.0	338	2.3	140	169	14.211	4	B140	14D14-	1	42
46.0	338	1.0	70.0	169	8.717	4	B70	12H14-	1	17
53.0	270	4.0	280	135	23.552	5	B320	12H14-	1	37
53.0	270	4.0	280	135	24.352	5	B320	14D14-	1	58
56.0	270	1.8	140	135	12.817	5	B140	12H14-	1	21
56.0	270	1.8	140	135	13.617	5	B140	14D14-	1	42
75.0	193	1.2	91.0	96.0	12.328	7	B140	12H14-	1	21
75.0	193	1.2	91.0	96.0	13.128	7	B140	14D14-	1	42
76.0	193	2.5	189	96.0	21.325	7	B320	12H14-	1	37
76.0	193	2.5	189	96.0	22.125	7	B320	14D14-	1	58
85.0	169	1.1	90.0	84.0	12.238	8	B140	12H14-	1	21
85.0	169	1.1	90.0	84.0	13.038	8	B140	14D14-	1	42
88.0	169	2.0	180	84.0	20.868	8	B320	12H14-	1	37
88.0	169	2.0	180	84.0	21.668	8	B320	14D14-	1	58
110	135	1.5	160	68.0	20.234	10	B320	12H14-	1	37
110	135	1.5	160	68.0	21.034	10	B320	14D14-	1	58

2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
22.0	881	3.4	140	304	10.111	4	B140	12D35-	1	18
23.0	881	1.6	70.0	387	5.417	4	B70	12D35-	1	14
28.0	705	1.3	70.0	324	5.240	5	B70	12D35-	1	14
28.0	705	2.8	140	244	9.517	5	B140	12D35-	1	18
37.0	504	2.2	91.0	199	9.028	7	B140	12D35-	1	18
43.0	441	1.8	90.0	172	8.938	8	B140	12D35-	1	18
52.0	353	1.5	75.0	141	8.805	10	B140	12D35-	1	18

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



2.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
62.0	413	3.3	320	206	29.505	4	B320	12L17-	1	40
64.0	413	1.5	140	206	16.711	4	B140	12L17-	1	25
79.0	330	1.2	140	165	16.117	5	B140	12L17-	1	25
79.0	330	2.6	280	165	26.852	5	B320	12L17-	1	40
107	236	1.8	189	118	24.625	7	B320	12L17-	1	40
125	206	1.4	180	103	24.168	8	B320	12L17-	1	40
156	165	1.0	160	83.0	23.534	10	B320	12L17-	1	40

3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
88.0	300	1.2	140	150	20.311	4	B140	14H12-	1	47
88.0	300	2.6	320	150	33.105	4	B320	14H12-	1	63
110	240	2.1	280	120	30.452	5	B320	14H12-	1	63
148	171	1.3	189	86.0	28.225	7	B320	14H12-	1	63
173	150	1.0	180	75.0	27.768	8	B320	14H12-	1	63

3.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	750	2.0	140	276	14.211	4	B140	14D30-	1	42
49.0	600	1.7	140	222	13.617	5	B140	14D30-	1	42
65.0	429	1.3	91.0	190	13.128	7	B140	14D30-	1	42
75.0	375	1.1	90.0	164	13.038	8	B140	14D30-	1	42

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	844	2.0	140	274	13.411	4	B140	12H34-	1	21
49.0	675	1.6	140	220	12.817	5	B140	12H34-	1	21
65.0	482	1.3	91.0	190	12.328	7	B140	12H34-	1	21
75.0	422	1.0	90.0	163	12.238	8	B140	12H34-	1	21

4.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
116	338	2.0	320	169	42.305	4	B320	14L14-	1	68
143	270	1.6	280	135	39.652	5	B320	14L14-	1	68



Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

4.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
160	263	1.5	320	131	53.605	4	B320	14P11-	1	73
197	210	1.2	280	105	50.952	5	B320	14P11-	1	73

4.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
144	300	1.6	320	150	83.905	4	B320	19F12-	1	80
179	240	1.3	280	120	81.252	5	B320	19F12-	1	80

5.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
51.0	975	3.1	320	249	29.505	4	B320	12L39-	1	40
53.0	975	1.4	140	256	16.711	4	B140	12L39-	1	25
65.0	780	1.1	140	206	16.117	5	B140	12L39-	1	25
66.0	780	2.5	280	194	26.852	5	B320	12L39-	1	40
88.0	557	2.0	189	166	24.625	7	B320	12L39-	1	40
103	488	1.6	180	145	24.168	8	B320	12L39-	1	40
129	390	1.2	160	123	23.534	10	B320	12L39-	1	40

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
77.0	694	1.1	140	241	20.311	4	B140	14H28-	1	47
78.0	694	2.3	320	234	33.105	4	B320	14H28-	1	63
96.0	555	1.9	280	183	30.452	5	B320	14H28-	1	63
129	396	1.5	189	162	28.225	7	B320	14H28-	1	63
151	347	1.2	180	140	27.768	8	B320	14H28-	1	63

8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
97.0	750	1.8	320	220	42.305	4	B320	14L30-	1	68
120	600	1.5	280	174	39.652	5	B320	14L30-	1	68
161	429	1.2	189	159	37.425	7	B320	14L30-	1	68

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
125	656	1.5	320	209	53.605	4	B320	14P26-	1	73
155	525	1.2	280	166	50.952	5	B320	14P26-	1	73

Technical data

Bevel gearbox g860-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



9.7 kW

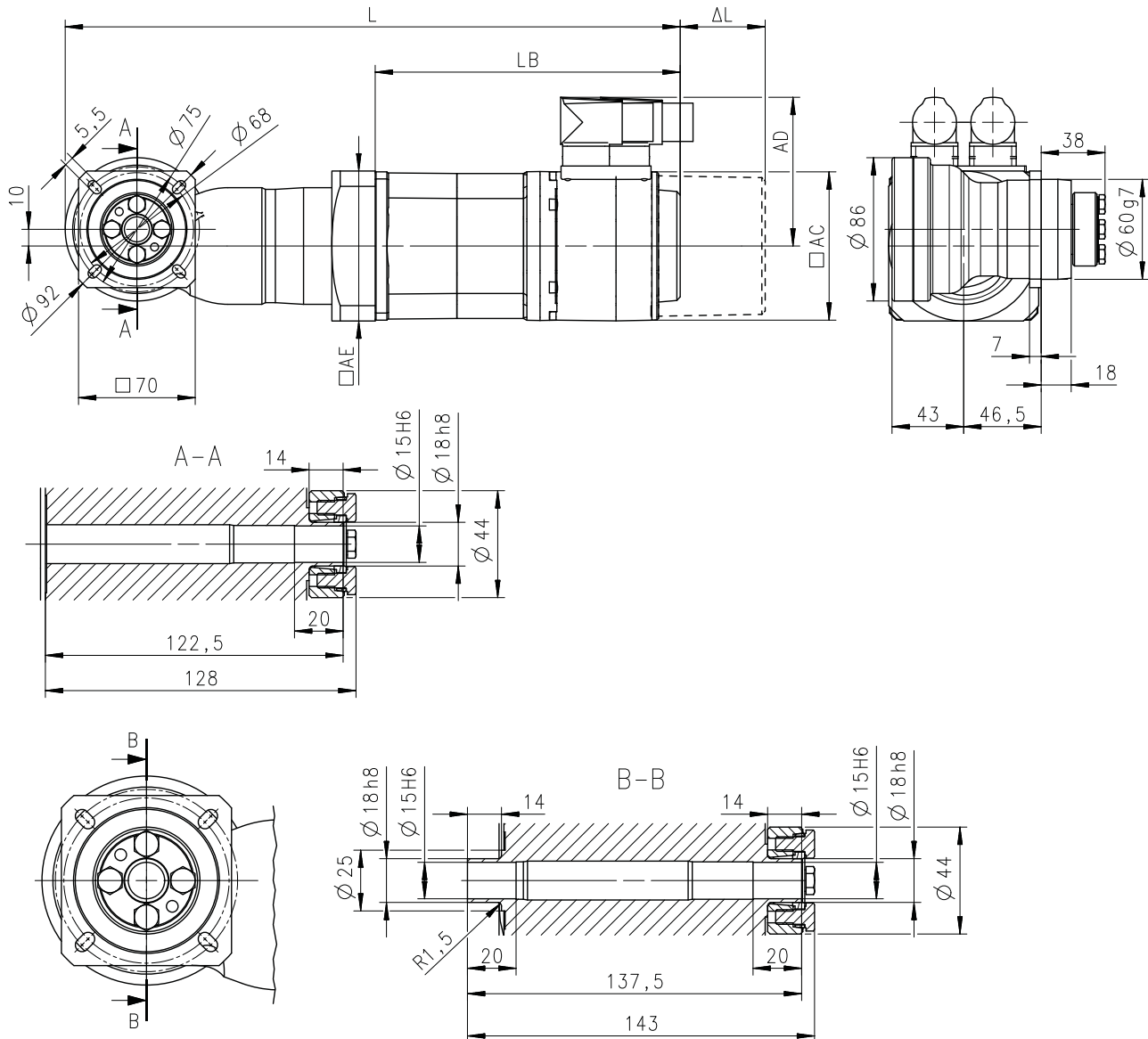
Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g860-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
124	713	1.5	320	208	83.905	4	B320	19F29-	1	80
153	570	1.2	280	166	81.252	5	B320	19F29-	1	80



Basic dimensions

g860-B45 with MCS06

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800854-01

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	341	341	371	371
Gearbox length	L1	mm	122.5	122.5	122.5	122.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70

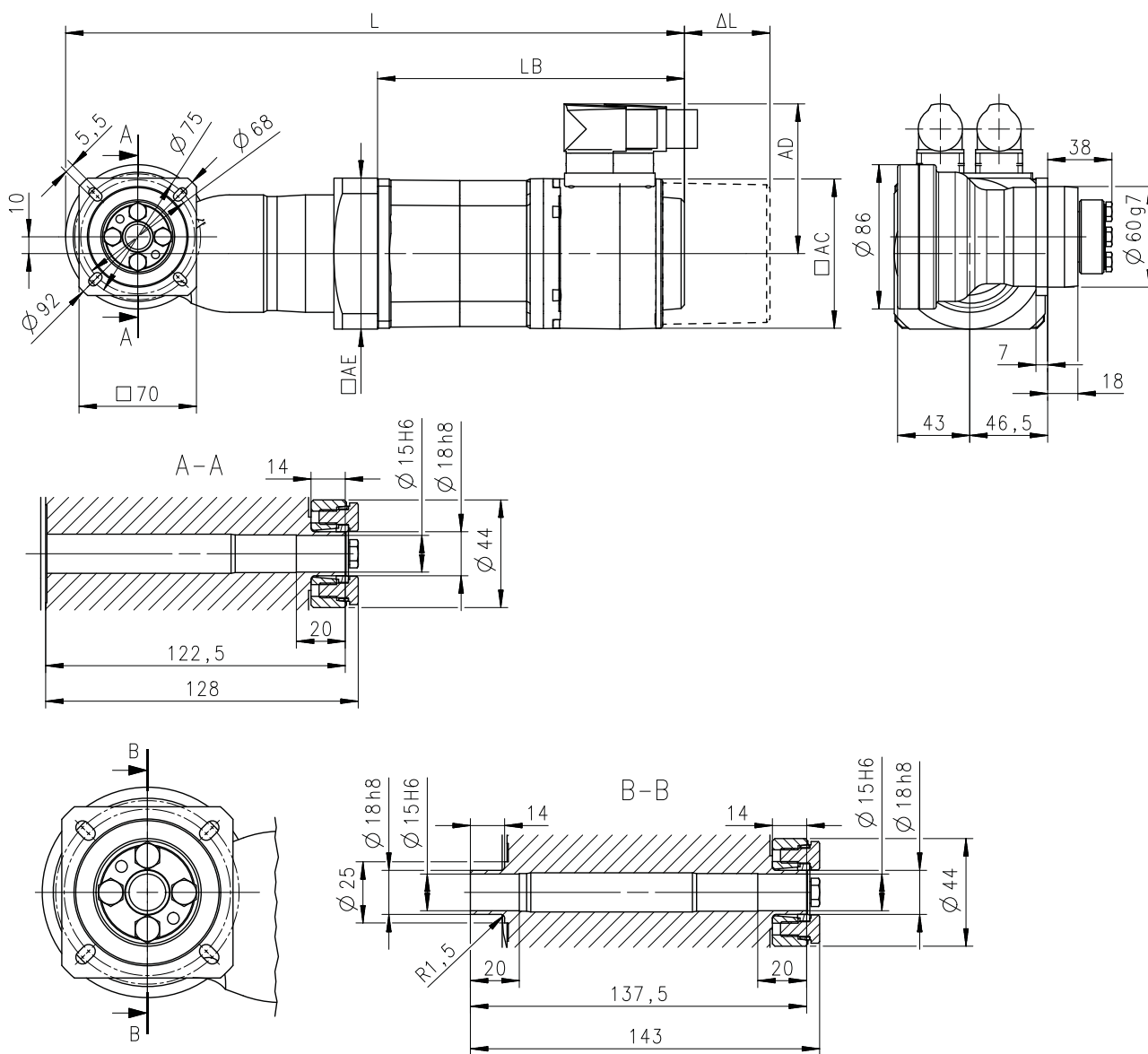
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B45 with MCS09

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800854-01

Motor			MCS 09					
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L
Total length	L	mm	368	368	388	388	408	408
Gearbox length	L1	mm	122.5	122.5	122.5	122.5	122.5	122.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

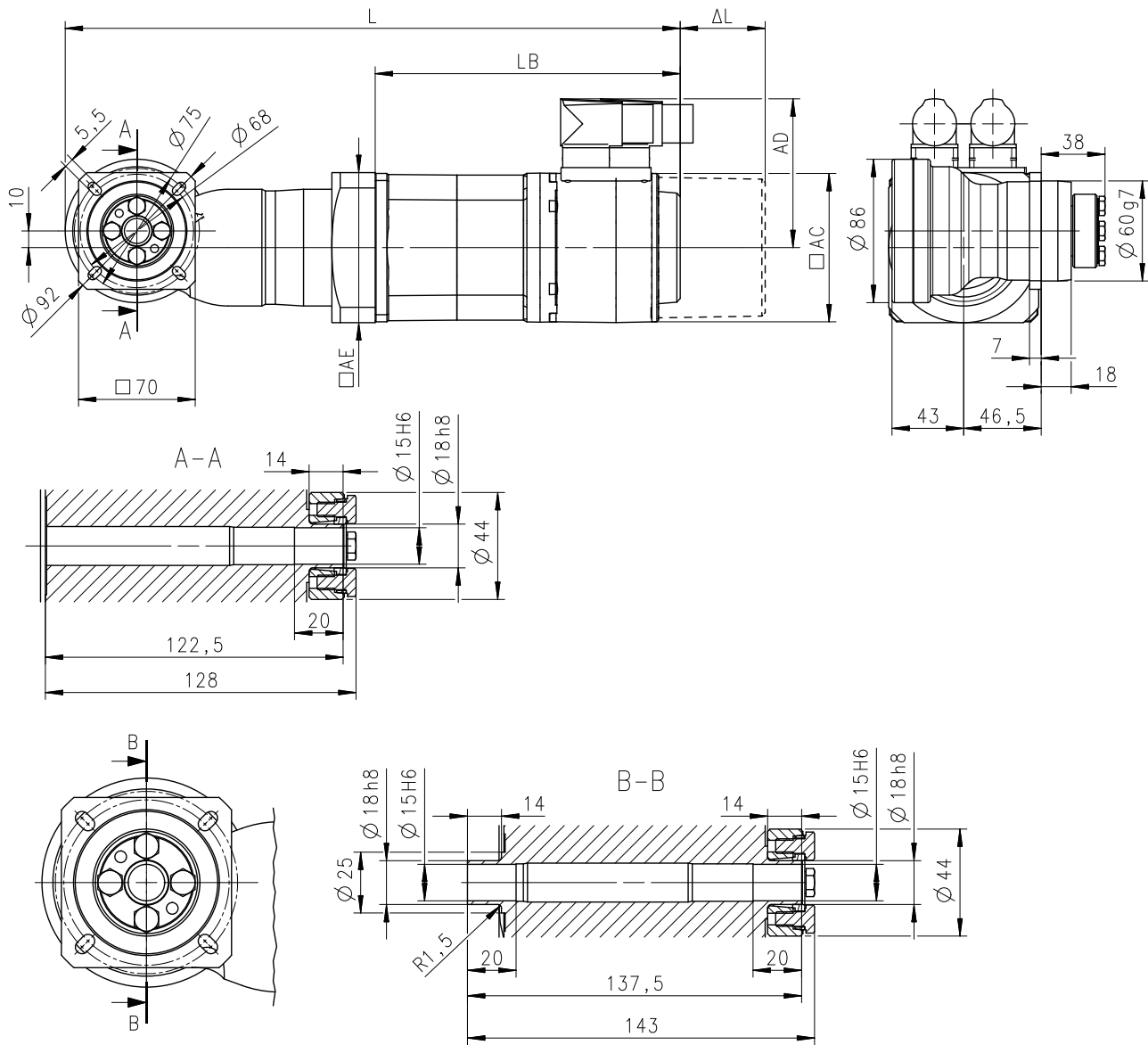


Technical data

Bevel gearbox g860-B
Basic dimensions

g860-B45 with MCS12

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800854-01

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	387	387
Gearbox length	L1	mm	122.5	122.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

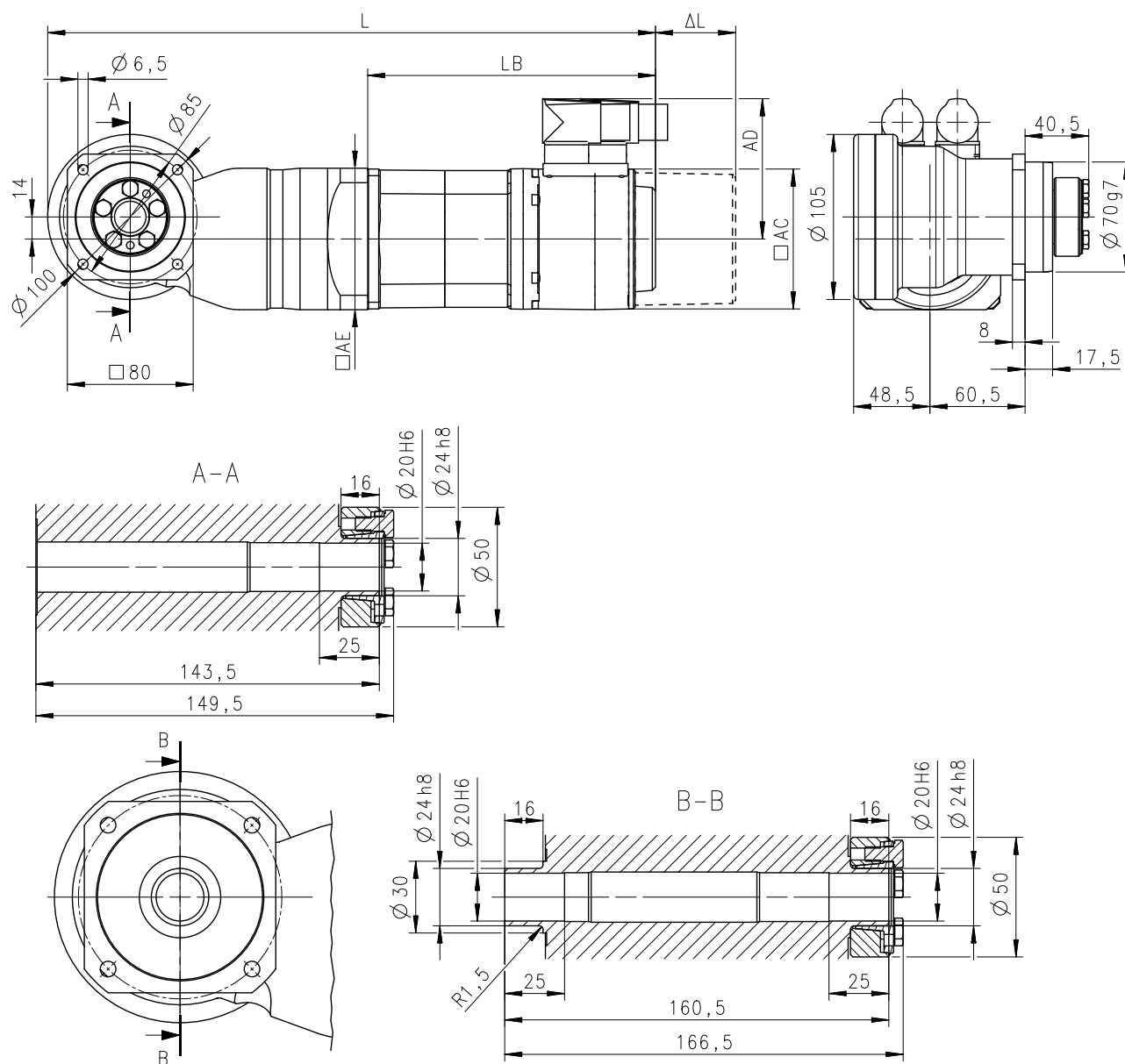
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B70 with MCS09

Gearbox design: Hollow shaft, without foot with centering, 1-stage

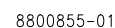


8800855-01

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	385.5	385.5	405.5	405.5	425.5	425.5	465.5	465.5
Gearbox length	L1	mm	143.5	143.5	143.5	143.5	143.5	143.5	143.5	143.5
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90	90	90



Gearbox design: Hollow shaft, without foot with centering, 1-stage

305

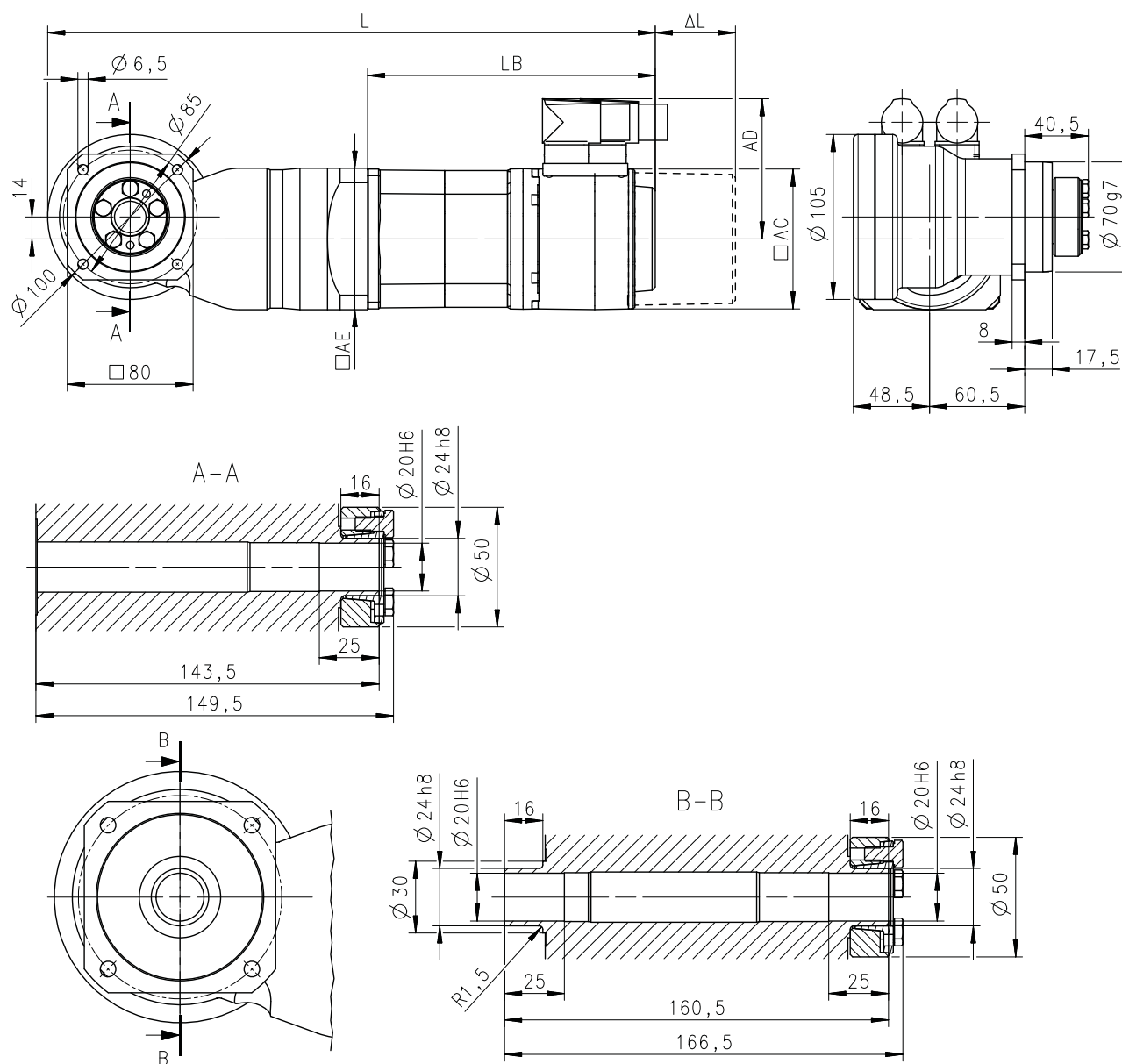
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B70 with MCS14

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800855-01

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	424	424
Gearbox length	L1	mm	143.5	143.5
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	142	142

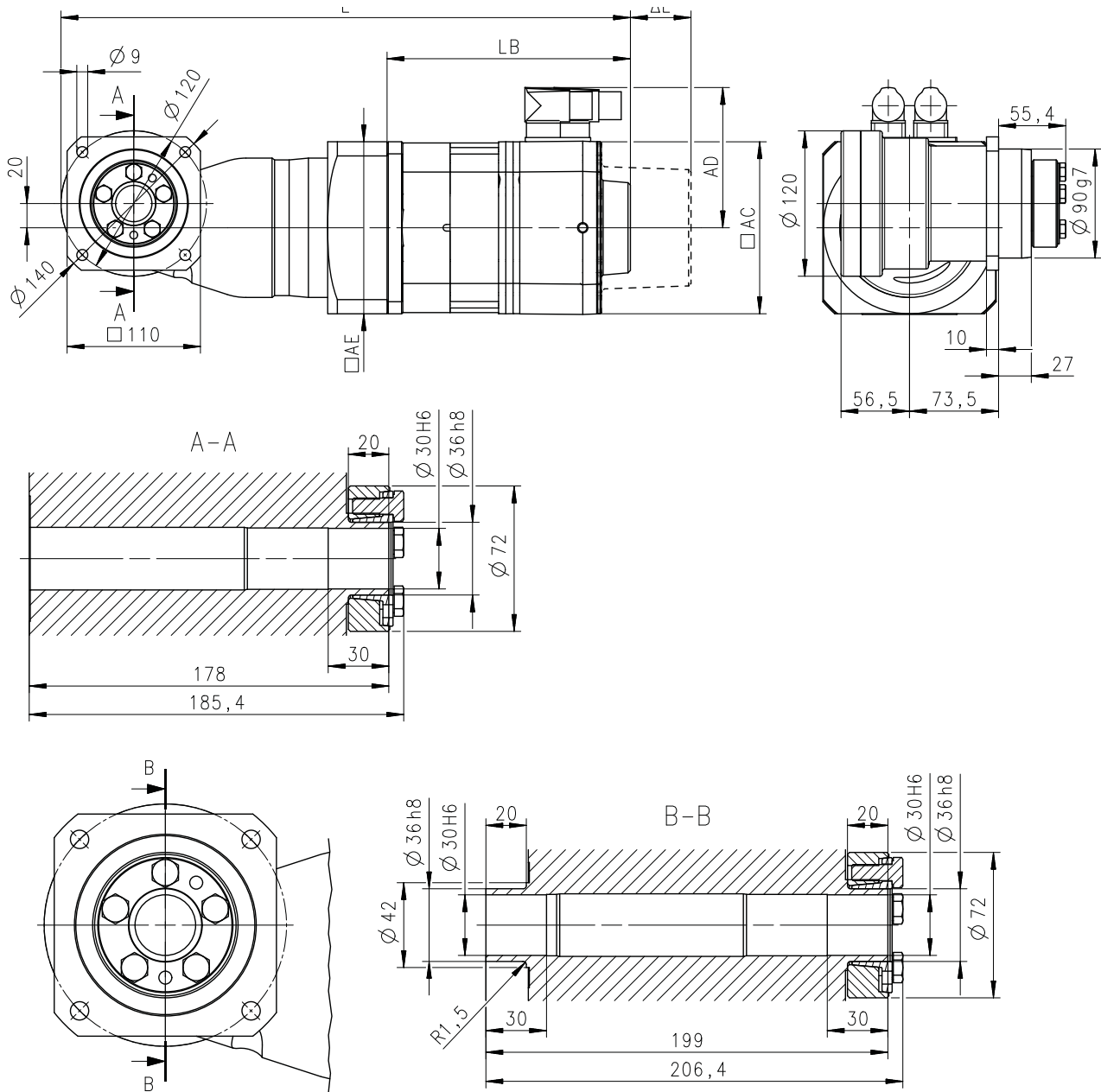


Technical data

Bevel gearbox g860-B
Basic dimensions

g860-B140 with MCS12

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800857-01

Motor			MCS 12													
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L17-	L20-L20L	L39-	L41-	
Total length	L	mm	508.5	435.5	508.5	435.5	548.5	475.5	475.5	548.5	475.5	598.5	515.5	588.5	515.5	
Gearbox length	L1	mm	178	178	178	178	178	178	178	178	178	178	178	178	178	
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	351	268	341	268	
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	140	116	140	116	
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105	105	105	
Gearbox diameter	AE	mm	120	120	120	120	120	120	120	120	120	120	120	120	120	

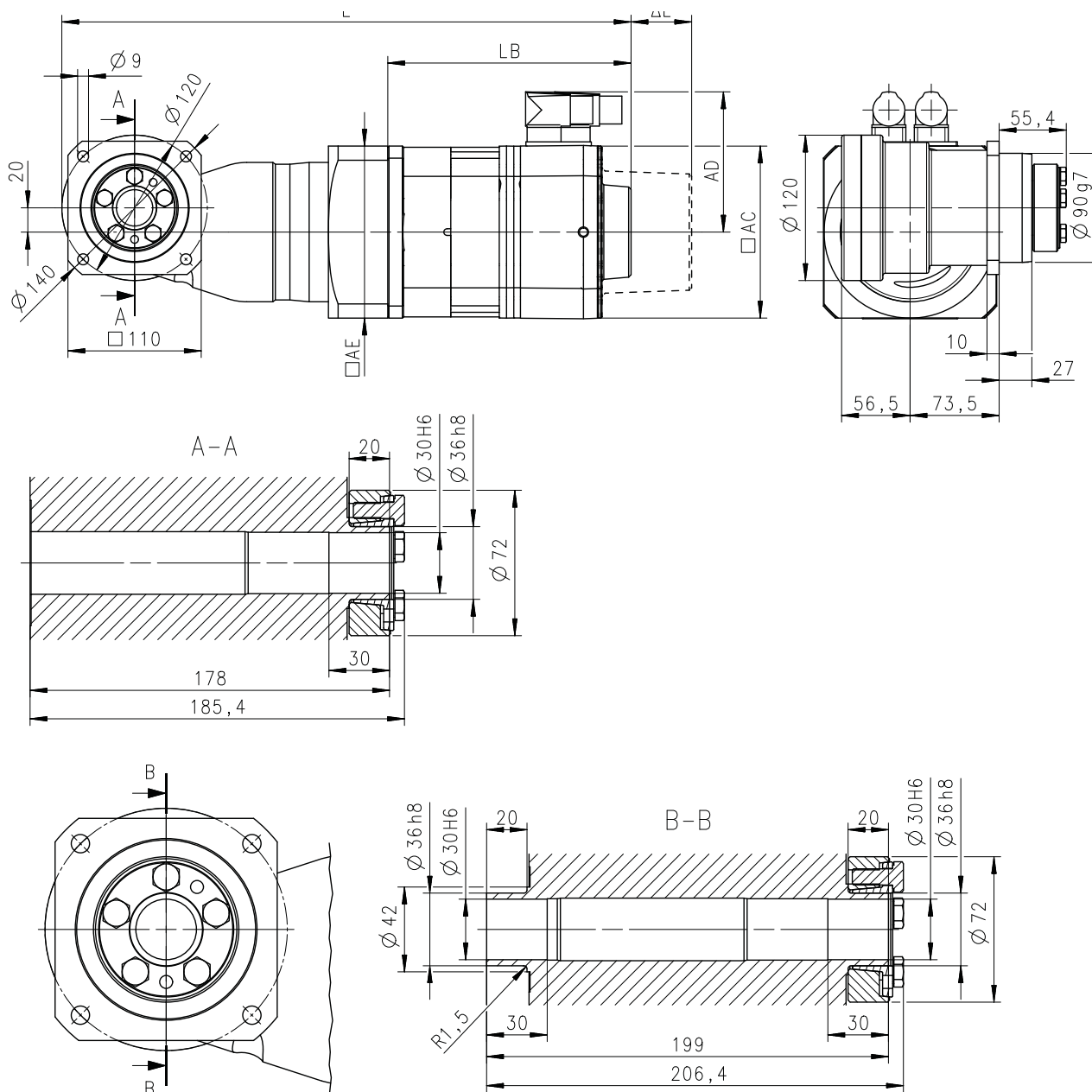
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B140 with MCS14

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800857-01

Motor			MCS 14									
			D14-	D15-	D30-	D36-	H12-	H15-	H28-	H32-	L15-	L32-
Total length	L	mm	546.5	458.5	546.5	458.5	586.5	498.5	586.5	498.5	538.5	538.5
Gearbox length	L1	mm	178	178	178	178	178	178	178	178	178	178
Motor length	LB	mm	289	201	289	201	329	241	329	241	281	281
Motor diameter	AC	mm	167	143	167	143	167	143	167	143	143	143
Motor/connection distance	AD	mm	117	117	117	117	117	117	146	117	117	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142

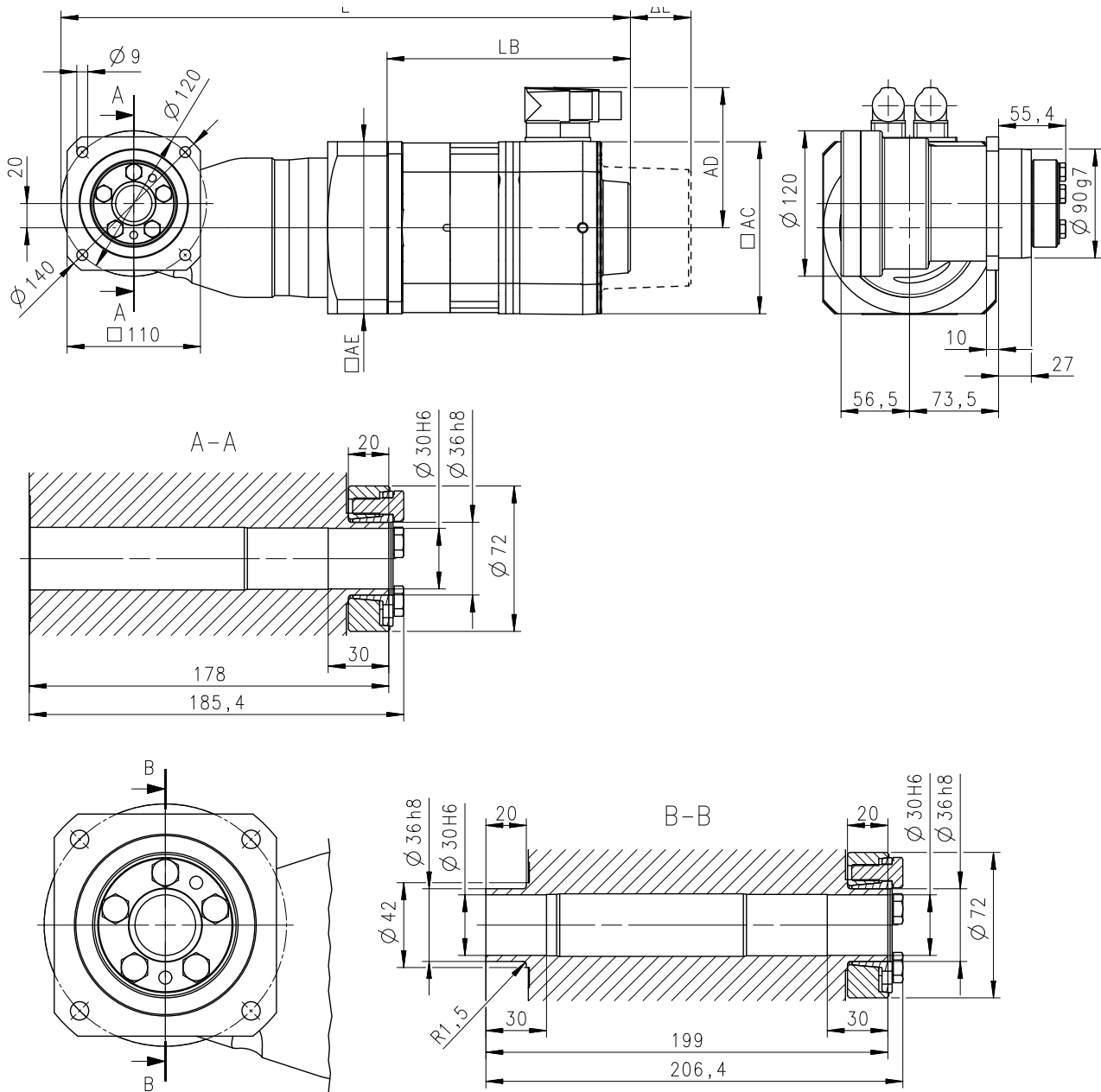


Technical data

Bevel gearbox g860-B
Basic dimensions

g860-B140 with MCS19

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800857-01

Motor			MCS 19	
			F14-	F30-
Total length	L	mm	497,5	497,5
Gearbox length	L1	mm	178	178
Motor length	LB	mm	220	220
Motor diameter	AC	mm	192	192
Motor/connection distance	AD	mm	142	171
Gearbox diameter	AE	mm	190	190

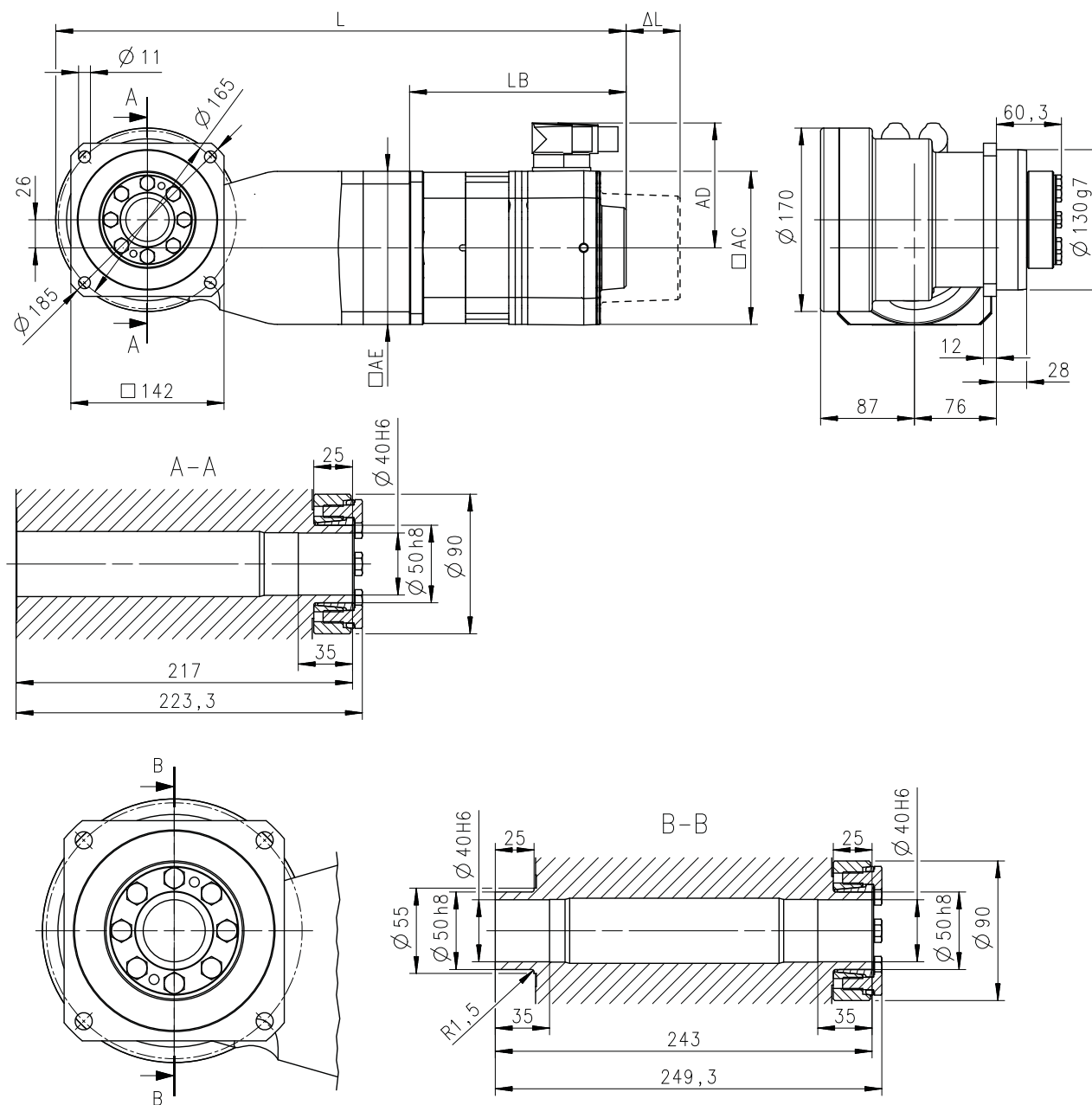
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B320 with MCS12

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800856-01

Motor			MCS 12				
			H14-	L17-	L20- L20L	L39-	L41-
Total length	L	mm	619	669	586	659	586
Gearbox length	L1	mm	217	217	217	217	217
Motor length	LB	mm	301	351	268	341	268
Motor diameter	AC	mm	140	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105
Gearbox diameter	AE	mm	142	142	142	142	142



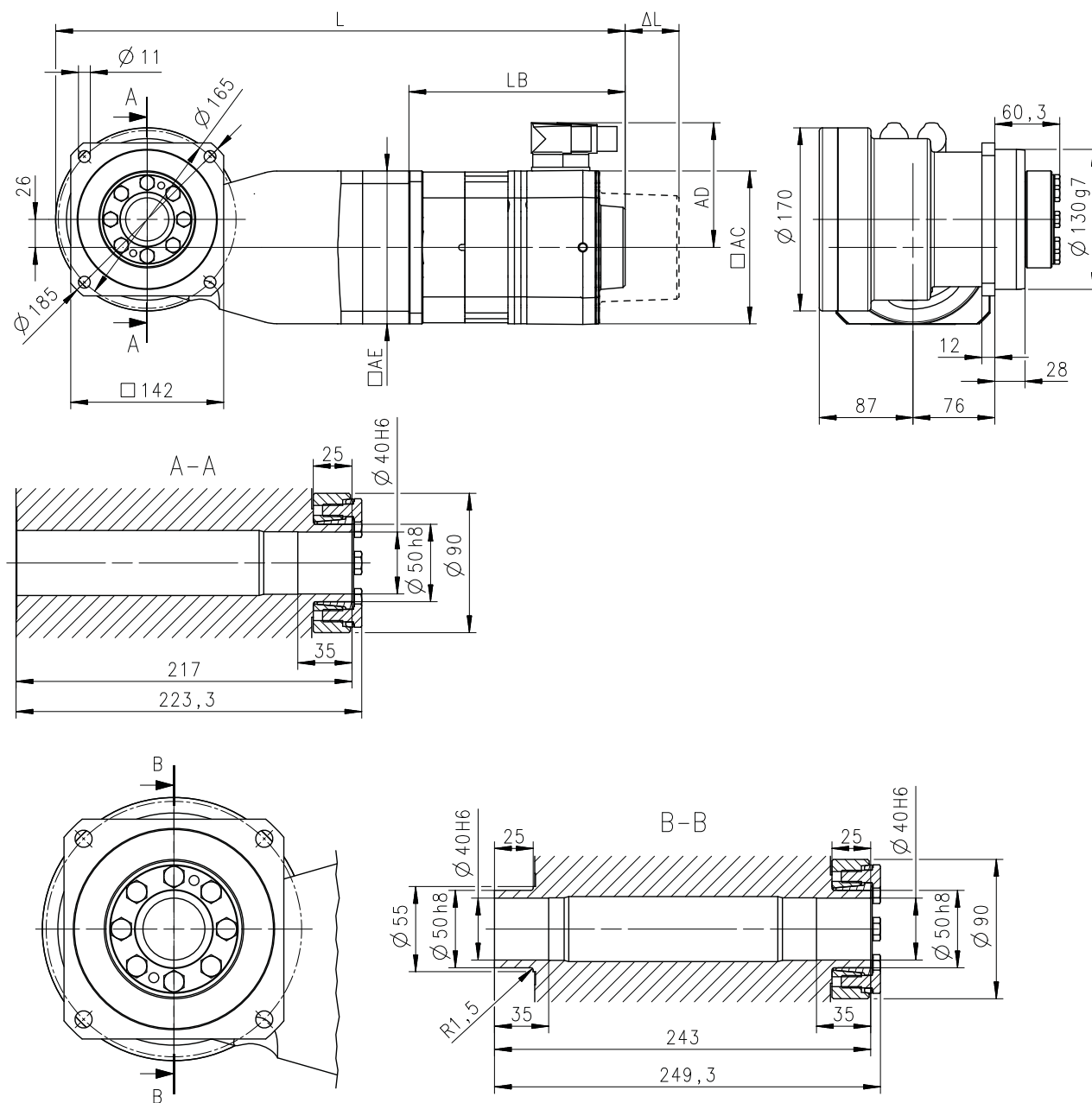
Technical data

Bevel gearbox g860-B
Basic dimensions



g860-B320 with MCS19

Gearbox design: Hollow shaft, without foot with centering, 1-stage



8800856-01

Motor			MCS 19									
			F12-	F14-	F29-	F30-	J12-	J14-	J30-	P12-	P14-	P30-
Total length	L	mm	655	548	655	548	695	588	588	755	648	648
Gearbox length	L1	mm	217	217	217	217	217	217	217	217	217	217
Motor length	LB	mm	327	220	327	220	367	260	260	427	320	320
Motor diameter	AC	mm	212	192	212	192	212	192	192	212	192	192
Motor/connection distance	AD	mm	142	142	171	171	171	142	171	171	171	171
Gearbox diameter	AE	mm	190	190	190	190	190	190	190	190	190	190



Bevel gearbox g880-B

The modular system

Kegelrad-Planetengetriebe g880-B mit Servo-Synchronmotor MCS

Getriebe		g880-B62	g880-B130	g880-B310	g880-B625
Motorzuordnung min.		MCS06	MCS06	MCS06	MCS09
Motorzuordnung max.		MCS12	MCS14	MCS19	MCS19
Technische Daten					
Abtriebsdrehmoment max.	Nm	62	130	310	625
Antriebsdrehmoment min.	Nm	0.6	0.6	0.6	4.5
Antriebsdrehmoment max.	Nm	17	42	72	72
Einbaulage		Beliebig			
Farbe		Grundiert Lackiert in RAL-Farben			
Oberflächen- und Korrosionsschutz		OKS-G OKS in verschiedenen Ausführungen			
Abtriebswelle					
Flanschabtriebswelle	mm	20 x 4.5	31.5 x 6.5 x 36	40 x 6.5	50 x 6.5
Flanschabtriebswelle mit Passstiftbohrung	mm	20 x 4.5	31.5 x 6.5	40 x 6.5	50 x 6.5
Wellenwerkstoff		Stahl			
Wellendichtringwerkstoff		NBR			
Getriebeausführung		Ohne Fuß mit Zentrierung			
Getriebestufen		1/2	1/2	1/2	1/2
Abtriebsflansch	mm	64	90	110	140
Schmierstoff		Standard Lebensmittelverträglich			
Kühlung		Selbstbelüftet Fremdbelüftet			
Motoranschluss		Steckverbinder Klemmenkasten			
Haltebremse		Ohne Mit			
Rückführung					
Ohne funktionale Sicherheit		Digitaler Absolutwertgeber für Einkabeltechnologie (OCT) Resolver Absolutwertgeber			
Mit funktionaler Sicherheit		Digitaler Absolutwertgeber für Einkabeltechnologie (OCT) Resolver Absolutwertgeber			
Temperaturüberwachung		MCS06: Temperaturfühler PT1000 MCS09 ... MCS19: Temperaturfühler PT1000 und 2x Kaltleiter PTC			



Gearbox data

g880-B62, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	45.0	5	3
5	42.0	5	3
7	28.0	5	2
8	27.0	5	2
10	22.0	5	2

g880-B62, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	62.0	5	7
20	62.0	5	7
25	60.0	5	7
28	62.0	5	6
32	62.0	5	6
35	60.0	5	6
40	60.0	5	6
50	60.0	5	6
70	37.0	5	6

g880-B130, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	90.0	5	6
5	75.0	5	5
7	51.0	5	5
8	50.0	5	5
10	40.0	5	4

g880-B130, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	130	5	21
20	130	5	21
25	120	5	19
28	112	5	18
32	108	5	18
35	123	5	17
40	123	5	17
50	110	5	17
70	78.0	5	16
100	59.0	5	15



g880-B310, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	160	5	14
5	140	5	13
7	91.0	5	12
8	90.0	5	11
10	75.0	5	10

g880-B310, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	310	5	44
20	300	5	44
25	255	5	42
28	204	5	40
32	200	5	39
35	255	5	38
40	250	5	38
50	200	5	37
70	175	5	36
100	140	5	34

g880-B625, 1-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
4	320	5	35
5	280	5	33
7	189	5	26
8	180	5	29
10	160	5	26

g880-B625, 2-stage gearboxes

Ratio	Max. output torque	Max. backlash	Torsional stiffness
		Standard	
i	$M_{2, \max}$		
	Nm	'	Nm/'
16	625	5	111
20	560	5	111
25	540	5	106
28	364	5	102
32	360	5	98
35	455	5	96
40	450	5	94
50	375	5	93
70	355	5	90
100	305	5	85

Technical data

Bevel gearbox g880-B
Radial forces and axial forces



Radial forces and axial forces

Gearbox			g880-B62	g880-B62	g880-B130	g880-B130	g880-B310	g880-B310	g880-B625	g880-B625
Number of stages	z		1	2	1	2	1	2	1	2
Bearing service life 20000 h										
Speed		rpm	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	2400	2150	4400	3950	5500	4900	12000	12000
Axial force	F_{ax}	N	4200	4300	7200	8200	9500	9500	8500	8500
Bearing service life 30000 h										
Speed		rpm	100	100	100	100	100	100	100	100
Radial force	F_{rad}	N	2100	1900	3900	3500	4800	4350	11000	11000
Axial force	F_{ax}	N	3700	3800	6300	7200	8400	8400	7500	7500
Max. radial force	$F_{rad, max}$	N	2400	2150	4400	3950	5500	4900	12000	12000
Max. axial force	$F_{ax, max}$	N	4200	4300	7200	8200	9500	9500	8500	8500



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.25 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
17.0	116	3.5	60.0	58.0	0.666	35	B62	06C41-	2	6.0
17.0	116	3.5	60.0	58.0	0.666	35	B62	06C41L	2	6.0
19.0	101	3.2	60.0	51.0	0.653	40	B62	06C41-	2	6.0
19.0	101	3.2	60.0	51.0	0.653	40	B62	06C41L	2	6.0
26.0	57.9	1.4	37.0	29.0	0.637	70	B62	06C41-	2	6.0
26.0	57.9	1.4	37.0	29.0	0.637	70	B62	06C41L	2	6.0
36.0	40.5	1.6	59.0	20.0	0.637	100	B130	06C41-	2	7.6
36.0	40.5	1.6	59.0	20.0	0.637	100	B130	06C41L	2	7.6

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.51 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.0	1013	5.2	45.0	506	0.892	4	B62	06F41-	1	6.0
4.0	1013	5.2	45.0	506	0.892	4	B62	06F41L	1	6.0
5.2	810	4.4	42.0	405	0.824	5	B62	06F41-	1	6.0
5.2	810	4.4	42.0	405	0.824	5	B62	06F41L	1	6.0
7.3	579	3.7	28.0	289	0.756	7	B62	06F41-	1	6.0
7.3	579	3.7	28.0	289	0.756	7	B62	06F41L	1	6.0
8.3	506	3.2	27.0	253	0.741	8	B62	06F41-	1	6.0
8.3	506	3.2	27.0	253	0.741	8	B62	06F41L	1	6.0
9.7	405	1.9	22.0	203	0.722	10	B62	06F41-	1	6.0
9.7	405	1.9	22.0	203	0.722	10	B62	06F41L	1	6.0
14.0	253	5.4	130	127	0.879	16	B130	06F41-	2	8.0
14.0	253	5.4	130	127	0.879	16	B130	06F41L	2	8.0
16.0	253	3.7	62.0	127	0.862	16	B62	06F41-	2	6.4
16.0	253	3.7	62.0	127	0.862	16	B62	06F41L	2	6.4
18.0	203	4.4	130	101	0.816	20	B130	06F41-	2	8.0
18.0	203	4.4	130	101	0.816	20	B130	06F41L	2	8.0
21.0	203	3.0	62.0	101	0.805	20	B62	06F41-	2	6.4
21.0	203	3.0	62.0	101	0.805	20	B62	06F41L	2	6.4
23.0	162	4.5	120	81.0	0.811	25	B130	06F41-	2	8.0
23.0	162	4.5	120	81.0	0.811	25	B130	06F41L	2	8.0
25.0	162	2.4	60.0	81.0	0.804	25	B62	06F41-	2	6.4
25.0	162	2.4	60.0	81.0	0.804	25	B62	06F41L	2	6.4
28.0	145	2.2	62.0	72.0	0.747	28	B62	06F41-	2	6.4
28.0	145	2.2	62.0	72.0	0.747	28	B62	06F41L	2	6.4
28.0	145	3.7	112	72.0	0.752	28	B130	06F41-	2	8.0
28.0	145	3.7	112	72.0	0.752	28	B130	06F41L	2	8.0
31.0	127	2.0	62.0	63.0	0.734	32	B62	06F41-	2	6.4
31.0	127	2.0	62.0	63.0	0.734	32	B62	06F41L	2	6.4
33.0	127	3.2	108	63.0	0.738	32	B130	06F41-	2	8.0
33.0	127	3.2	108	63.0	0.738	32	B130	06F41L	2	8.0
34.0	116	1.7	60.0	58.0	0.746	35	B62	06F41-	2	6.4
34.0	116	1.7	60.0	58.0	0.746	35	B62	06F41L	2	6.4
35.0	116	3.4	123	58.0	0.750	35	B130	06F41-	2	8.0
35.0	116	3.4	123	58.0	0.750	35	B130	06F41L	2	8.0
38.0	101	1.6	60.0	51.0	0.733	40	B62	06F41-	2	6.4
38.0	101	1.6	60.0	51.0	0.733	40	B62	06F41L	2	6.4
41.0	101	3.0	123	51.0	0.736	40	B130	06F41-	2	8.0
41.0	101	3.0	123	51.0	0.736	40	B130	06F41L	2	8.0
45.0	81.0	1.3	60.0	41.0	0.717	50	B62	06F41-	2	6.4
45.0	81.0	1.3	60.0	41.0	0.717	50	B62	06F41L	2	6.4
48.0	81.0	1.9	110	41.0	0.719	50	B130	06F41-	2	8.0
48.0	81.0	1.9	110	41.0	0.719	50	B130	06F41L	2	8.0
59.0	57.9	1.3	78.0	29.0	0.718	70	B130	06F41-	2	8.0
59.0	57.9	1.3	78.0	29.0	0.718	70	B130	06F41L	2	8.0
66.0	57.9	2.6	175	29.0	1.236	70	B310	06F41-	2	11
66.0	57.9	2.6	175	29.0	1.236	70	B310	06F41L	2	11
84.0	40.5	1.7	140	20.0	1.235	100	B310	06F41-	2	11
84.0	40.5	1.7	140	20.0	1.235	100	B310	06F41L	2	11



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

0.57 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.2	750	3.8	27.0	323	0.741	8	B62	06F60-	1	6.0
6.2	750	3.8	27.0	323	0.741	8	B62	06F60L	1	6.0
7.3	600	2.2	22.0	262	0.722	10	B62	06F60-	1	6.0
7.3	600	2.2	22.0	262	0.722	10	B62	06F60L	1	6.0
11.0	375	4.9	62.0	150	0.862	16	B62	06F60-	2	6.4
11.0	375	4.9	62.0	150	0.862	16	B62	06F60L	2	6.4
14.0	300	4.0	62.0	125	0.805	20	B62	06F60-	2	6.4
14.0	300	4.0	62.0	125	0.805	20	B62	06F60L	2	6.4
16.0	240	5.3	120	113	0.811	25	B130	06F60-	2	8.0
16.0	240	5.3	120	113	0.811	25	B130	06F60L	2	8.0
19.0	240	3.2	60.0	102	0.804	25	B62	06F60-	2	6.4
19.0	240	3.2	60.0	102	0.804	25	B62	06F60L	2	6.4
19.0	214	4.4	112	99.0	0.752	28	B130	06F60-	2	8.0
19.0	214	4.4	112	99.0	0.752	28	B130	06F60L	2	8.0
21.0	214	3.0	62.0	91.0	0.747	28	B62	06F60-	2	6.4
21.0	214	3.0	62.0	91.0	0.747	28	B62	06F60L	2	6.4
23.0	188	2.7	62.0	80.0	0.734	32	B62	06F60-	2	6.4
23.0	188	2.7	62.0	80.0	0.734	32	B62	06F60L	2	6.4
23.0	188	3.8	108	88.0	0.738	32	B130	06F60-	2	8.0
23.0	188	3.8	108	88.0	0.738	32	B130	06F60L	2	8.0
24.0	171	4.4	123	85.0	0.750	35	B130	06F60-	2	8.0
24.0	171	4.4	123	85.0	0.750	35	B130	06F60L	2	8.0
26.0	171	2.3	60.0	77.0	0.746	35	B62	06F60-	2	6.4
26.0	171	2.3	60.0	77.0	0.746	35	B62	06F60L	2	6.4
28.0	150	2.1	60.0	68.0	0.733	40	B62	06F60-	2	6.4
28.0	150	2.1	60.0	68.0	0.733	40	B62	06F60L	2	6.4
29.0	150	3.8	123	71.0	0.736	40	B130	06F60-	2	8.0
29.0	150	3.8	123	71.0	0.736	40	B130	06F60L	2	8.0
34.0	120	1.8	60.0	54.0	0.717	50	B62	06F60-	2	6.4
34.0	120	1.8	60.0	54.0	0.717	50	B62	06F60L	2	6.4
36.0	120	2.3	110	57.0	0.719	50	B130	06F60-	2	8.0
36.0	120	2.3	110	57.0	0.719	50	B130	06F60L	2	8.0
44.0	85.7	1.8	78.0	43.0	0.718	70	B130	06F60-	2	8.0
44.0	85.7	1.8	78.0	43.0	0.718	70	B130	06F60L	2	8.0
54.0	60.0	1.1	59.0	30.0	0.717	100	B130	06F60-	2	8.0
54.0	60.0	1.1	59.0	30.0	0.717	100	B130	06F60L	2	8.0
63.0	60.0	2.2	140	30.0	1.235	100	B310	06F60-	2	11
63.0	60.0	2.2	140	30.0	1.235	100	B310	06F60L	2	11

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.64 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
5.2	1013	4.2	45.0	506	0.972	4	B62	06I41-	1	6.7
5.2	1013	4.2	45.0	506	0.972	4	B62	06I41L	1	6.7
6.8	810	3.5	42.0	405	0.904	5	B62	06I41-	1	6.7
6.8	810	3.5	42.0	405	0.904	5	B62	06I41L	1	6.7
9.1	579	3.0	28.0	289	0.836	7	B62	06I41-	1	6.7
9.1	579	3.0	28.0	289	0.836	7	B62	06I41L	1	6.7
9.3	579	3.8	51.0	289	1.453	7	B130	06I41-	1	9.5
9.3	579	3.8	51.0	289	1.453	7	B130	06I41L	1	9.5
10.0	506	2.6	27.0	253	0.821	8	B62	06I41-	1	6.7
10.0	506	2.6	27.0	253	0.821	8	B62	06I41L	1	6.7
11.0	506	3.2	50.0	253	1.403	8	B130	06I41-	1	9.5
11.0	506	3.2	50.0	253	1.403	8	B130	06I41L	1	9.5
12.0	405	1.5	22.0	203	0.802	10	B62	06I41-	1	6.7
12.0	405	1.5	22.0	203	0.802	10	B62	06I41L	1	6.7
12.0	405	2.7	40.0	203	1.346	10	B130	06I41-	1	9.5
12.0	405	2.7	40.0	203	1.346	10	B130	06I41L	1	9.5
19.0	253	4.3	130	127	0.959	16	B130	06I41-	2	8.7
19.0	253	4.3	130	127	0.959	16	B130	06I41L	2	8.7
21.0	253	2.9	62.0	127	0.942	16	B62	06I41-	2	7.1
21.0	253	2.9	62.0	127	0.942	16	B62	06I41L	2	7.1
25.0	203	3.6	130	101	0.896	20	B130	06I41-	2	8.7
25.0	203	3.6	130	101	0.896	20	B130	06I41L	2	8.7
26.0	203	2.4	62.0	101	0.885	20	B62	06I41-	2	7.1
26.0	203	2.4	62.0	101	0.885	20	B62	06I41L	2	7.1
27.0	162	5.0	255	81.0	1.546	25	B310	06I41-	2	12
27.0	162	5.0	255	81.0	1.546	25	B310	06I41L	2	12
31.0	162	1.9	60.0	81.0	0.884	25	B62	06I41-	2	7.1
31.0	162	1.9	60.0	81.0	0.884	25	B62	06I41L	2	7.1
31.0	162	3.6	120	81.0	0.891	25	B130	06I41-	2	8.7
31.0	162	3.6	120	81.0	0.891	25	B130	06I41L	2	8.7
34.0	145	3.8	204	72.0	1.408	28	B310	06I41-	2	12
34.0	145	3.8	204	72.0	1.408	28	B310	06I41L	2	12
35.0	145	1.8	62.0	72.0	0.827	28	B62	06I41-	2	7.1
35.0	145	1.8	62.0	72.0	0.827	28	B62	06I41L	2	7.1
37.0	145	3.0	112	72.0	0.832	28	B130	06I41-	2	8.7
37.0	145	3.0	112	72.0	0.832	28	B130	06I41L	2	8.7
39.0	127	1.6	62.0	63.0	0.814	32	B62	06I41-	2	7.1
39.0	127	1.6	62.0	63.0	0.814	32	B62	06I41L	2	7.1
41.0	127	2.6	108	63.0	0.818	32	B130	06I41-	2	8.7
41.0	127	2.6	108	63.0	0.818	32	B130	06I41L	2	8.7
41.0	127	3.2	200	63.0	1.368	32	B310	06I41-	2	12
41.0	127	3.2	200	63.0	1.368	32	B310	06I41L	2	12
43.0	116	1.4	60.0	58.0	0.826	35	B62	06I41-	2	7.1
43.0	116	1.4	60.0	58.0	0.826	35	B62	06I41L	2	7.1
43.0	116	3.8	255	58.0	1.400	35	B310	06I41-	2	12
43.0	116	3.8	255	58.0	1.400	35	B310	06I41L	2	12
46.0	116	2.7	123	58.0	0.830	35	B130	06I41-	2	8.7
46.0	116	2.7	123	58.0	0.830	35	B130	06I41L	2	8.7
47.0	101	1.3	60.0	51.0	0.813	40	B62	06I41-	2	7.1
47.0	101	1.3	60.0	51.0	0.813	40	B62	06I41L	2	7.1
51.0	101	2.4	123	51.0	0.816	40	B130	06I41-	2	8.7



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
51.0	101	2.4	123	51.0	0.816	40	B130	06I41L	2	8.7
51.0	101	3.2	250	51.0	1.362	40	B310	06I41-	2	12
51.0	101	3.2	250	51.0	1.362	40	B310	06I41L	2	12
56.0	81.0	1.1	60.0	41.0	0.797	50	B62	06I41-	2	7.1
56.0	81.0	1.1	60.0	41.0	0.797	50	B62	06I41L	2	7.1
60.0	81.0	1.5	110	41.0	0.799	50	B130	06I41-	2	8.7
60.0	81.0	1.5	110	41.0	0.799	50	B130	06I41L	2	8.7
63.0	81.0	2.7	200	41.0	1.319	50	B310	06I41-	2	12
63.0	81.0	2.7	200	41.0	1.319	50	B310	06I41L	2	12
74.0	57.9	1.1	78.0	29.0	0.798	70	B130	06I41-	2	8.7
74.0	57.9	1.1	78.0	29.0	0.798	70	B130	06I41L	2	8.7
83.0	57.9	2.1	175	29.0	1.316	70	B310	06I41-	2	12
83.0	57.9	2.1	175	29.0	1.316	70	B310	06I41L	2	12
105	40.5	1.3	140	20.0	1.315	100	B310	06I41-	2	12
105	40.5	1.3	140	20.0	1.315	100	B310	06I41L	2	12

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



0.75 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
4.1	1500	4.7	45.0	519	0.972	4	B62	06I60-	1	6.7
4.1	1500	4.7	45.0	519	0.972	4	B62	06I60L	1	6.7
5.3	1200	3.9	42.0	434	0.904	5	B62	06I60-	1	6.7
5.3	1200	3.9	42.0	434	0.904	5	B62	06I60L	1	6.7
7.3	857	3.3	28.0	358	0.836	7	B62	06I60-	1	6.7
7.3	857	3.3	28.0	358	0.836	7	B62	06I60L	1	6.7
8.3	750	2.8	27.0	314	0.821	8	B62	06I60-	1	6.7
8.3	750	2.8	27.0	314	0.821	8	B62	06I60L	1	6.7
9.7	600	1.7	22.0	258	0.802	10	B62	06I60-	1	6.7
9.7	600	1.7	22.0	258	0.802	10	B62	06I60L	1	6.7
14.0	375	4.8	130	143	0.959	16	B130	06I60-	2	8.7
14.0	375	4.8	130	143	0.959	16	B130	06I60L	2	8.7
16.0	375	3.7	62.0	145	0.942	16	B62	06I60-	2	7.1
16.0	375	3.7	62.0	145	0.942	16	B62	06I60L	2	7.1
19.0	300	4.0	130	121	0.896	20	B130	06I60-	2	8.7
19.0	300	4.0	130	121	0.896	20	B130	06I60L	2	8.7
21.0	300	3.0	62.0	122	0.885	20	B62	06I60-	2	7.1
21.0	300	3.0	62.0	122	0.885	20	B62	06I60L	2	7.1
24.0	240	4.0	120	109	0.891	25	B130	06I60-	2	8.7
24.0	240	4.0	120	109	0.891	25	B130	06I60L	2	8.7
25.0	240	2.4	60.0	100	0.884	25	B62	06I60-	2	7.1
25.0	240	2.4	60.0	100	0.884	25	B62	06I60L	2	7.1
28.0	214	2.2	62.0	89.0	0.827	28	B62	06I60-	2	7.1
28.0	214	2.2	62.0	89.0	0.827	28	B62	06I60L	2	7.1
29.0	214	3.3	112	96.0	0.832	28	B130	06I60-	2	8.7
29.0	214	3.3	112	96.0	0.832	28	B130	06I60L	2	8.7
31.0	188	2.0	62.0	78.0	0.814	32	B62	06I60-	2	7.1
31.0	188	2.0	62.0	78.0	0.814	32	B62	06I60L	2	7.1
33.0	188	2.9	108	86.0	0.818	32	B130	06I60-	2	8.7
33.0	188	2.9	108	86.0	0.818	32	B130	06I60L	2	8.7
34.0	171	1.7	60.0	76.0	0.826	35	B62	06I60-	2	7.1
34.0	171	1.7	60.0	76.0	0.826	35	B62	06I60L	2	7.1
36.0	171	3.3	123	83.0	0.830	35	B130	06I60-	2	8.7
36.0	171	3.3	123	83.0	0.830	35	B130	06I60L	2	8.7
38.0	150	1.6	60.0	67.0	0.813	40	B62	06I60-	2	7.1
38.0	150	1.6	60.0	67.0	0.813	40	B62	06I60L	2	7.1
41.0	150	2.9	123	69.0	0.816	40	B130	06I60-	2	8.7
41.0	150	2.9	123	69.0	0.816	40	B130	06I60L	2	8.7
45.0	120	1.3	60.0	53.0	0.797	50	B62	06I60-	2	7.1
45.0	120	1.3	60.0	53.0	0.797	50	B62	06I60L	2	7.1
48.0	120	1.7	110	56.0	0.799	50	B130	06I60-	2	8.7
48.0	120	1.7	110	56.0	0.799	50	B130	06I60L	2	8.7
59.0	85.7	1.3	78.0	43.0	0.798	70	B130	06I60-	2	8.7
59.0	85.7	1.3	78.0	43.0	0.798	70	B130	06I60L	2	8.7
66.0	85.7	2.6	175	43.0	1.316	70	B310	06I60-	2	12
66.0	85.7	2.6	175	43.0	1.316	70	B310	06I60L	2	12
84.0	60.0	1.7	140	30.0	1.315	100	B310	06I60-	2	12
84.0	60.0	1.7	140	30.0	1.315	100	B310	06I60L	2	12



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.1	1013	3.9	90.0	454	2.691	4	B130	09D41-	1	11
8.1	1013	3.9	90.0	454	2.691	4	B130	09D41L	1	11
8.6	1013	2.7	45.0	473	1.772	4	B62	09D41-	1	8.1
8.6	1013	2.7	45.0	473	1.772	4	B62	09D41L	1	8.2
10.0	810	3.2	75.0	395	2.451	5	B130	09D41-	1	11
10.0	810	3.2	75.0	395	2.451	5	B130	09D41L	1	11
11.0	810	2.3	42.0	401	1.704	5	B62	09D41-	1	8.1
11.0	810	2.3	42.0	401	1.704	5	B62	09D41L	1	8.2
14.0	579	1.9	28.0	289	1.636	7	B62	09D41-	1	8.1
14.0	579	1.9	28.0	289	1.636	7	B62	09D41L	1	8.2
14.0	579	2.5	51.0	289	2.253	7	B130	09D41-	1	11
14.0	579	2.5	51.0	289	2.253	7	B130	09D41L	1	11
16.0	506	1.7	27.0	253	1.621	8	B62	09D41-	1	8.1
16.0	506	1.7	27.0	253	1.621	8	B62	09D41L	1	8.2
16.0	506	2.1	50.0	253	2.203	8	B130	09D41-	1	11
16.0	506	2.1	50.0	253	2.203	8	B130	09D41L	1	11
19.0	405	1.8	40.0	203	2.146	10	B130	09D41-	1	11
19.0	405	1.8	40.0	203	2.146	10	B130	09D41L	1	11
30.0	253	4.0	310	120	2.552	16	B310	09D41-	2	13
30.0	253	4.0	310	120	2.552	16	B310	09D41L	2	13
32.0	253	1.9	62.0	127	1.742	16	B62	09D41-	2	8.5
32.0	253	1.9	62.0	127	1.742	16	B62	09D41L	2	8.6
33.0	253	2.8	130	127	1.759	16	B130	09D41-	2	10
33.0	253	2.8	130	127	1.759	16	B130	09D41L	2	10
39.0	203	3.2	300	101	2.362	20	B310	09D41-	2	13
39.0	203	3.2	300	101	2.362	20	B310	09D41L	2	13
40.0	203	1.6	62.0	101	1.685	20	B62	09D41-	2	8.5
40.0	203	1.6	62.0	101	1.685	20	B62	09D41L	2	8.6
41.0	203	2.3	130	101	1.696	20	B130	09D41-	2	10
41.0	203	2.3	130	101	1.696	20	B130	09D41L	2	10
48.0	162	1.2	60.0	81.0	1.684	25	B62	09D41-	2	8.5
48.0	162	1.2	60.0	81.0	1.684	25	B62	09D41L	2	8.6
49.0	162	3.3	255	81.0	2.346	25	B310	09D41-	2	13
49.0	162	3.3	255	81.0	2.346	25	B310	09D41L	2	13
51.0	162	2.3	120	81.0	1.691	25	B130	09D41-	2	10
51.0	162	2.3	120	81.0	1.691	25	B130	09D41L	2	10
53.0	145	1.2	62.0	72.0	1.627	28	B62	09D41-	2	8.5
53.0	145	1.2	62.0	72.0	1.627	28	B62	09D41L	2	8.6
56.0	145	1.9	112	72.0	1.632	28	B130	09D41-	2	10
56.0	145	1.9	112	72.0	1.632	28	B130	09D41L	2	10
57.0	145	2.5	204	72.0	2.208	28	B310	09D41-	2	13
57.0	145	2.5	204	72.0	2.208	28	B310	09D41L	2	13
60.0	127	1.0	62.0	63.0	1.614	32	B62	09D41-	2	8.5
60.0	127	1.0	62.0	63.0	1.614	32	B62	09D41L	2	8.6
63.0	127	1.7	108	63.0	1.618	32	B130	09D41-	2	10
63.0	127	1.7	108	63.0	1.618	32	B130	09D41L	2	10
65.0	127	2.1	200	63.0	2.168	32	B310	09D41-	2	13
65.0	127	2.1	200	63.0	2.168	32	B310	09D41L	2	13
70.0	116	1.8	123	58.0	1.630	35	B130	09D41-	2	10
70.0	116	1.8	123	58.0	1.630	35	B130	09D41L	2	10
72.0	116	2.5	255	58.0	2.200	35	B310	09D41-	2	13

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
72.0	116	2.5	255	58.0	2.200	35	B310	09D41L	2	13
78.0	101	1.6	123	51.0	1.616	40	B130	09D41-	2	10
78.0	101	1.6	123	51.0	1.616	40	B130	09D41L	2	10
81.0	101	2.1	250	51.0	2.162	40	B310	09D41-	2	13
81.0	101	2.1	250	51.0	2.162	40	B310	09D41L	2	13
97.0	81.0	1.8	200	41.0	2.119	50	B310	09D41-	2	13
97.0	81.0	1.8	200	41.0	2.119	50	B310	09D41L	2	13
127	57.9	1.4	175	29.0	2.116	70	B310	09D41-	2	13
127	57.9	1.4	175	29.0	2.116	70	B310	09D41L	2	13



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
6.2	1500	4.5	90.0	465	2.691	4	B130	09D60-	1	11
6.2	1500	4.5	90.0	465	2.691	4	B130	09D60L	1	11
6.6	1500	3.1	45.0	484	1.772	4	B62	09D60-	1	8.1
6.6	1500	3.1	45.0	484	1.772	4	B62	09D60L	1	8.2
8.1	1200	3.6	75.0	402	2.451	5	B130	09D60-	1	11
8.1	1200	3.6	75.0	402	2.451	5	B130	09D60L	1	11
8.3	1200	2.6	42.0	409	1.704	5	B62	09D60-	1	8.1
8.3	1200	2.6	42.0	409	1.704	5	B62	09D60L	1	8.2
11.0	857	2.2	28.0	346	1.636	7	B62	09D60-	1	8.1
11.0	857	2.2	28.0	346	1.636	7	B62	09D60L	1	8.2
11.0	857	2.8	51.0	337	2.253	7	B130	09D60-	1	11
11.0	857	2.8	51.0	337	2.253	7	B130	09D60L	1	11
12.0	750	1.9	27.0	301	1.621	8	B62	09D60-	1	8.1
12.0	750	1.9	27.0	301	1.621	8	B62	09D60L	1	8.2
13.0	750	2.4	50.0	296	2.203	8	B130	09D60-	1	11
13.0	750	2.4	50.0	296	2.203	8	B130	09D60L	1	11
15.0	600	1.1	22.0	252	1.602	10	B62	09D60-	1	8.1
15.0	600	1.1	22.0	252	1.602	10	B62	09D60L	1	8.2
15.0	600	2.0	40.0	251	2.146	10	B130	09D60-	1	11
15.0	600	2.0	40.0	251	2.146	10	B130	09D60L	1	11
19.0	488	4.4	160	244	10.435	4	B310	12D20-	1	18
19.0	488	4.4	160	244	10.435	4	B310	12D20L	1	18
20.0	488	1.4	45.0	244	4.909	4	B62	12D20-	1	10
20.0	488	1.4	45.0	244	4.909	4	B62	12D20L	1	10
21.0	488	2.0	90.0	244	5.591	4	B130	12D20-	1	13
21.0	488	2.0	90.0	244	5.591	4	B130	12D20L	1	13
25.0	390	1.2	42.0	195	4.842	5	B62	12D20-	1	10
25.0	390	1.2	42.0	195	4.842	5	B62	12D20L	1	10
25.0	390	3.6	140	195	9.725	5	B310	12D20-	1	18
25.0	390	3.6	140	195	9.725	5	B310	12D20L	1	18
25.0	375	2.5	62.0	139	1.742	16	B62	09D60-	2	8.5
25.0	375	2.5	62.0	139	1.742	16	B62	09D60L	2	8.6
25.0	375	3.2	130	135	1.759	16	B130	09D60-	2	10
25.0	375	3.2	130	135	1.759	16	B130	09D60L	2	10
26.0	390	1.7	75.0	195	5.351	5	B130	12D20-	1	13
26.0	390	1.7	75.0	195	5.351	5	B130	12D20L	1	13
30.0	300	3.6	300	106	2.362	20	B310	09D60-	2	13
30.0	300	3.6	300	106	2.362	20	B310	09D60L	2	13
31.0	300	2.0	62.0	117	1.685	20	B62	09D60-	2	8.5
31.0	300	2.0	62.0	117	1.685	20	B62	09D60L	2	8.6
32.0	300	2.6	130	115	1.696	20	B130	09D60-	2	10
32.0	300	2.6	130	115	1.696	20	B130	09D60L	2	10
34.0	279	1.3	51.0	139	5.153	7	B130	12D20-	1	13
34.0	279	1.3	51.0	139	5.153	7	B130	12D20L	1	13
34.0	279	2.7	91.0	139	9.134	7	B310	12D20-	1	18
34.0	279	2.7	91.0	139	9.134	7	B310	12D20L	1	18
37.0	240	3.7	255	98.0	2.346	25	B310	09D60-	2	13
37.0	240	3.7	255	98.0	2.346	25	B310	09D60L	2	13
38.0	244	2.4	90.0	122	9.019	8	B310	12D20-	1	18
38.0	244	2.4	90.0	122	9.019	8	B310	12D20L	1	18
38.0	240	1.6	60.0	96.0	1.684	25	B62	09D60-	2	8.5

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
38.0	240	1.6	60.0	96.0	1.684	25	B62	09D60L	2	8.6
39.0	244	1.1	50.0	122	5.103	8	B130	12D20-	1	13
39.0	244	1.1	50.0	122	5.103	8	B130	12D20L	1	13
40.0	240	2.7	120	104	1.691	25	B130	09D60-	2	10
40.0	240	2.7	120	104	1.691	25	B130	09D60L	2	10
42.0	214	1.5	62.0	87.0	1.627	28	B62	09D60-	2	8.5
42.0	214	1.5	62.0	87.0	1.627	28	B62	09D60L	2	8.6
44.0	214	2.2	112	93.0	1.632	28	B130	09D60-	2	10
44.0	214	2.2	112	93.0	1.632	28	B130	09D60L	2	10
44.0	214	2.8	204	86.0	2.208	28	B310	09D60-	2	13
44.0	214	2.8	204	86.0	2.208	28	B310	09D60L	2	13
46.0	195	1.6	75.0	98.0	8.857	10	B310	12D20-	1	18
46.0	195	1.6	75.0	98.0	8.857	10	B310	12D20L	1	18
47.0	188	1.3	62.0	76.0	1.614	32	B62	09D60-	2	8.5
47.0	188	1.3	62.0	76.0	1.614	32	B62	09D60L	2	8.6
49.0	188	1.9	108	82.0	1.618	32	B130	09D60-	2	10
49.0	188	1.9	108	82.0	1.618	32	B130	09D60L	2	10
51.0	188	2.4	200	76.0	2.168	32	B310	09D60-	2	13
51.0	188	2.4	200	76.0	2.168	32	B310	09D60L	2	13
52.0	171	1.2	60.0	74.0	1.626	35	B62	09D60-	2	8.5
52.0	171	1.2	60.0	74.0	1.626	35	B62	09D60L	2	8.6
55.0	171	2.2	123	80.0	1.630	35	B130	09D60-	2	10
55.0	171	2.2	123	80.0	1.630	35	B130	09D60L	2	10
56.0	171	2.8	255	71.0	2.200	35	B310	09D60-	2	13
56.0	171	2.8	255	71.0	2.200	35	B310	09D60L	2	13
57.0	150	1.1	60.0	65.0	1.613	40	B62	09D60-	2	8.5
57.0	150	1.1	60.0	65.0	1.613	40	B62	09D60L	2	8.6
61.0	150	1.9	123	67.0	1.616	40	B130	09D60-	2	10
61.0	150	1.9	123	67.0	1.616	40	B130	09D60L	2	10
63.0	150	2.4	250	62.0	2.162	40	B310	09D60-	2	13
63.0	150	2.4	250	62.0	2.162	40	B310	09D60L	2	13
72.0	120	1.1	110	54.0	1.599	50	B130	09D60-	2	10
72.0	120	1.1	110	54.0	1.599	50	B130	09D60L	2	10
76.0	120	2.0	200	52.0	2.119	50	B310	09D60-	2	13
76.0	120	2.0	200	52.0	2.119	50	B310	09D60L	2	13
80.0	122	1.5	130	61.0	4.896	16	B130	12D20-	2	12
80.0	122	1.5	130	61.0	4.896	16	B130	12D20L	2	12
82.0	122	2.1	310	61.0	5.452	16	B310	12D20-	2	15
82.0	122	2.1	310	61.0	5.452	16	B310	12D20L	2	16
91.0	97.5	3.6	560	49.0	10.260	20	B625	12D20-	2	25
91.0	97.5	3.6	560	49.0	10.260	20	B625	12D20L	2	25
99.0	97.5	1.2	130	49.0	4.834	20	B130	12D20-	2	12
99.0	97.5	1.2	130	49.0	4.834	20	B130	12D20L	2	12
100	85.7	1.8	175	42.0	2.116	70	B310	09D60-	2	13
100	85.7	1.8	175	42.0	2.116	70	B310	09D60L	2	13
101	97.5	1.7	300	49.0	5.262	20	B310	12D20-	2	15
101	97.5	1.7	300	49.0	5.262	20	B310	12D20L	2	16
113	78.0	3.7	540	39.0	9.613	25	B625	12D20-	2	25
113	78.0	3.7	540	39.0	9.613	25	B625	12D20L	2	25
125	78.0	1.7	255	39.0	5.246	25	B310	12D20-	2	15
125	78.0	1.7	255	39.0	5.246	25	B310	12D20L	2	16
126	60.0	1.1	140	30.0	2.115	100	B310	09D60-	2	13



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
126	60.0	1.1	140	30.0	2.115	100	B310	09D60L	2	13
134	69.6	2.7	364	35.0	9.105	28	B625	12D20-	2	25
134	69.6	2.7	364	35.0	9.105	28	B625	12D20L	2	25
137	69.6	1.3	204	35.0	5.108	28	B310	12D20-	2	15
137	69.6	1.3	204	35.0	5.108	28	B310	12D20L	2	16
150	60.9	2.4	360	30.0	8.997	32	B625	12D20-	2	25
150	60.9	2.4	360	30.0	8.997	32	B625	12D20L	2	25
155	60.9	1.1	200	30.0	5.068	32	B310	12D20-	2	15
155	60.9	1.1	200	30.0	5.068	32	B310	12D20L	2	16
167	55.7	2.7	455	28.0	9.077	35	B625	12D20-	2	25
167	55.7	2.7	455	28.0	9.077	35	B625	12D20L	2	25
171	55.7	1.3	255	28.0	5.100	35	B310	12D20-	2	15
171	55.7	1.3	255	28.0	5.100	35	B310	12D20L	2	16
187	48.8	2.4	450	24.0	8.976	40	B625	12D20-	2	25
187	48.8	2.4	450	24.0	8.976	40	B625	12D20L	2	25
194	48.8	1.1	250	24.0	5.062	40	B310	12D20-	2	15
194	48.8	1.1	250	24.0	5.062	40	B310	12D20L	2	16
220	39.0	1.7	375	20.0	8.829	50	B625	12D20-	2	25
220	39.0	1.7	375	20.0	8.829	50	B625	12D20L	2	25
289	27.9	1.2	355	14.0	8.817	70	B625	12D20-	2	25
289	27.9	1.2	355	14.0	8.817	70	B625	12D20L	2	25

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	938	3.0	90.0	431	3.091	4	B130	09F38-	1	12
11.0	938	3.0	90.0	431	3.091	4	B130	09F38L	1	12
12.0	938	2.1	45.0	450	2.172	4	B62	09F38-	1	9.0
12.0	938	2.1	45.0	450	2.172	4	B62	09F38L	1	9.1
14.0	750	1.7	42.0	375	2.104	5	B62	09F38-	1	9.0
14.0	750	1.7	42.0	375	2.104	5	B62	09F38L	1	9.1
14.0	750	2.4	75.0	375	2.851	5	B130	09F38-	1	12
14.0	750	2.4	75.0	375	2.851	5	B130	09F38L	1	12
19.0	536	1.5	28.0	268	2.036	7	B62	09F38-	1	9.0
19.0	536	1.5	28.0	268	2.036	7	B62	09F38L	1	9.1
19.0	536	1.9	51.0	268	2.653	7	B130	09F38-	1	12
19.0	536	1.9	51.0	268	2.653	7	B130	09F38L	1	12
21.0	469	1.3	27.0	234	2.021	8	B62	09F38-	1	9.0
21.0	469	1.3	27.0	234	2.021	8	B62	09F38L	1	9.1
22.0	469	1.6	50.0	234	2.603	8	B130	09F38-	1	12
22.0	469	1.6	50.0	234	2.603	8	B130	09F38L	1	12
26.0	375	1.4	40.0	188	2.546	10	B130	09F38-	1	12
26.0	375	1.4	40.0	188	2.546	10	B130	09F38L	1	12
43.0	234	3.0	310	113	2.952	16	B310	09F38-	2	14
43.0	234	3.0	310	113	2.952	16	B310	09F38L	2	14
44.0	234	1.4	62.0	117	2.142	16	B62	09F38-	2	9.4
44.0	234	1.4	62.0	117	2.142	16	B62	09F38L	2	9.5
45.0	234	2.1	130	117	2.159	16	B130	09F38-	2	11
45.0	234	2.1	130	117	2.159	16	B130	09F38L	2	11
54.0	188	1.2	62.0	94.0	2.085	20	B62	09F38-	2	9.4
54.0	188	1.2	62.0	94.0	2.085	20	B62	09F38L	2	9.5
56.0	188	1.8	130	94.0	2.096	20	B130	09F38-	2	11
56.0	188	1.8	130	94.0	2.096	20	B130	09F38L	2	11
56.0	188	2.4	300	94.0	2.762	20	B310	09F38-	2	14
56.0	188	2.4	300	94.0	2.762	20	B310	09F38L	2	14
69.0	150	1.7	120	75.0	2.091	25	B130	09F38-	2	11
69.0	150	1.7	120	75.0	2.091	25	B130	09F38L	2	11
70.0	150	2.5	255	75.0	2.746	25	B310	09F38-	2	14
70.0	150	2.5	255	75.0	2.746	25	B310	09F38L	2	14
76.0	134	1.5	112	67.0	2.032	28	B130	09F38-	2	11
76.0	134	1.5	112	67.0	2.032	28	B130	09F38L	2	11
77.0	134	1.9	204	67.0	2.608	28	B310	09F38-	2	14
77.0	134	1.9	204	67.0	2.608	28	B310	09F38L	2	14
84.0	117	1.3	108	59.0	2.018	32	B130	09F38-	2	11
84.0	117	1.3	108	59.0	2.018	32	B130	09F38L	2	11
87.0	117	1.6	200	59.0	2.568	32	B310	09F38-	2	14
87.0	117	1.6	200	59.0	2.568	32	B310	09F38L	2	14
94.0	107	1.3	123	54.0	2.030	35	B130	09F38-	2	11
94.0	107	1.3	123	54.0	2.030	35	B130	09F38L	2	11
97.0	107	1.9	255	54.0	2.600	35	B310	09F38-	2	14
97.0	107	1.9	255	54.0	2.600	35	B310	09F38L	2	14
105	93.8	1.2	123	47.0	2.016	40	B130	09F38-	2	11
105	93.8	1.2	123	47.0	2.016	40	B130	09F38L	2	11
109	93.8	1.6	250	47.0	2.562	40	B310	09F38-	2	14
109	93.8	1.6	250	47.0	2.562	40	B310	09F38L	2	14
130	75.0	1.3	200	38.0	2.519	50	B310	09F38-	2	14



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
130	75.0	1.3	200	38.0	2.519	50	B310	09F38L	2	14
171	53.6	1.0	175	27.0	2.516	70	B310	09F38-	2	14
171	53.6	1.0	175	27.0	2.516	70	B310	09F38L	2	14
208	37.5	1.5	305	19.0	6.310	100	B625	09F38-	2	24
208	37.5	1.5	305	19.0	6.310	100	B625	09F38L	2	24

1.45 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
34.0	375	2.9	160	188	14.535	4	B310	14D15-	1	40
35.0	375	1.3	90.0	188	10.969	4	B130	14D15-	1	36
43.0	300	1.1	75.0	150	10.729	5	B130	14D15-	1	36
43.0	300	2.3	140	150	13.825	5	B310	14D15-	1	40
57.0	214	1.6	91.0	107	13.234	7	B310	14D15-	1	40
64.0	188	1.4	90.0	94.0	13.119	8	B310	14D15-	1	40
129	93.8	2.9	625	47.0	14.549	16	B625	14D15-	2	47
137	93.8	1.3	310	47.0	10.830	16	B310	14D15-	2	38
169	75.0	1.1	300	38.0	10.640	20	B310	14D15-	2	38
169	75.0	2.3	560	38.0	14.360	20	B625	14D15-	2	47
207	60.0	2.4	540	30.0	13.713	25	B625	14D15-	2	47
209	60.0	1.1	255	30.0	10.624	25	B310	14D15-	2	38
224	53.6	1.6	364	27.0	13.205	28	B625	14D15-	2	47
250	46.9	1.4	360	23.0	13.097	32	B625	14D15-	2	47
280	42.9	1.6	455	21.0	13.177	35	B625	14D15-	2	47
313	37.5	1.4	450	19.0	13.076	40	B625	14D15-	2	47
368	30.0	1.0	375	15.0	12.929	50	B625	14D15-	2	47

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
8.7	1500	3.3	90.0	440	3.091	4	B130	09F60-	1	12
8.7	1500	3.3	90.0	440	3.091	4	B130	09F60L	1	12
8.9	1500	2.3	45.0	460	2.172	4	B62	09F60-	1	9.0
8.9	1500	2.3	45.0	460	2.172	4	B62	09F60L	1	9.1
11.0	1200	1.9	42.0	391	2.104	5	B62	09F60-	1	9.0
11.0	1200	1.9	42.0	391	2.104	5	B62	09F60L	1	9.1
11.0	1200	2.7	75.0	386	2.851	5	B130	09F60-	1	12
11.0	1200	2.7	75.0	386	2.851	5	B130	09F60L	1	12
15.0	857	1.7	28.0	337	2.036	7	B62	09F60-	1	9.0
15.0	857	1.7	28.0	337	2.036	7	B62	09F60L	1	9.1
15.0	857	2.1	51.0	327	2.653	7	B130	09F60-	1	12
15.0	857	2.1	51.0	327	2.653	7	B130	09F60L	1	12
17.0	750	1.4	27.0	292	2.021	8	B62	09F60-	1	9.0
17.0	750	1.4	27.0	292	2.021	8	B62	09F60L	1	9.1
17.0	750	1.8	50.0	287	2.603	8	B130	09F60-	1	12
17.0	750	1.8	50.0	287	2.603	8	B130	09F60L	1	12
20.0	600	1.5	40.0	246	2.546	10	B130	09F60-	1	12
20.0	600	1.5	40.0	246	2.546	10	B130	09F60L	1	12
32.0	375	3.4	310	116	2.952	16	B310	09F60-	2	14
32.0	375	3.4	310	116	2.952	16	B310	09F60L	2	14
34.0	375	1.8	62.0	134	2.142	16	B62	09F60-	2	9.4
34.0	375	1.8	62.0	134	2.142	16	B62	09F60L	2	9.5
35.0	375	2.4	130	129	2.159	16	B130	09F60-	2	11
35.0	375	2.4	130	129	2.159	16	B130	09F60L	2	11
42.0	300	1.5	62.0	114	2.085	20	B62	09F60-	2	9.4
42.0	300	1.5	62.0	114	2.085	20	B62	09F60L	2	9.5
43.0	300	2.0	130	111	2.096	20	B130	09F60-	2	11
43.0	300	2.0	130	111	2.096	20	B130	09F60L	2	11
43.0	300	2.7	300	100	2.762	20	B310	09F60-	2	14
43.0	300	2.7	300	100	2.762	20	B310	09F60L	2	14
50.0	240	1.2	60.0	94.0	2.084	25	B62	09F60-	2	9.4
50.0	240	1.2	60.0	94.0	2.084	25	B62	09F60L	2	9.5
53.0	240	2.0	120	101	2.091	25	B130	09F60-	2	11
53.0	240	2.0	120	101	2.091	25	B130	09F60L	2	11
53.0	240	2.8	255	94.0	2.746	25	B310	09F60-	2	14
53.0	240	2.8	255	94.0	2.746	25	B310	09F60L	2	14
56.0	214	1.1	62.0	85.0	2.027	28	B62	09F60-	2	9.4
56.0	214	1.1	62.0	85.0	2.027	28	B62	09F60L	2	9.5
58.0	214	1.7	112	90.0	2.032	28	B130	09F60-	2	11
58.0	214	1.7	112	90.0	2.032	28	B130	09F60L	2	11
60.0	214	2.1	204	83.0	2.608	28	B310	09F60-	2	14
60.0	214	2.1	204	83.0	2.608	28	B310	09F60L	2	14
65.0	188	1.4	108	80.0	2.018	32	B130	09F60-	2	11
65.0	188	1.4	108	80.0	2.018	32	B130	09F60L	2	11
68.0	188	1.8	200	74.0	2.568	32	B310	09F60-	2	14
68.0	188	1.8	200	74.0	2.568	32	B310	09F60L	2	14
73.0	171	1.7	123	78.0	2.030	35	B130	09F60-	2	11
73.0	171	1.7	123	78.0	2.030	35	B130	09F60L	2	11
75.0	171	2.1	255	69.0	2.600	35	B310	09F60-	2	14
75.0	171	2.1	255	69.0	2.600	35	B310	09F60L	2	14
82.0	150	1.4	123	65.0	2.016	40	B130	09F60-	2	11



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
82.0	150	1.4	123	65.0	2.016	40	B130	09F60L	2	11
84.0	150	1.8	250	60.0	2.562	40	B310	09F60-	2	14
84.0	150	1.8	250	60.0	2.562	40	B310	09F60L	2	14
101	120	1.5	200	51.0	2.519	50	B310	09F60-	2	14
101	120	1.5	200	51.0	2.519	50	B310	09F60L	2	14
133	85.7	1.3	175	41.0	2.516	70	B310	09F60-	2	14
133	85.7	1.3	175	41.0	2.516	70	B310	09F60L	2	14

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
14.0	1013	1.7	45.0	431	2.572	4	B62	09H41-	1	9.9
14.0	1013	1.7	45.0	431	2.572	4	B62	09H41L	1	10
14.0	1013	2.4	90.0	411	3.491	4	B130	09H41-	1	13
14.0	1013	2.4	90.0	411	3.491	4	B130	09H41L	1	13
17.0	810	1.4	42.0	370	2.504	5	B62	09H41-	1	9.9
17.0	810	1.4	42.0	370	2.504	5	B62	09H41L	1	10
18.0	810	1.9	75.0	367	3.251	5	B130	09H41-	1	13
18.0	810	1.9	75.0	367	3.251	5	B130	09H41L	1	13
23.0	579	1.2	28.0	289	2.436	7	B62	09H41-	1	9.9
23.0	579	1.2	28.0	289	2.436	7	B62	09H41L	1	10
24.0	579	1.5	51.0	289	3.053	7	B130	09H41-	1	13
24.0	579	1.5	51.0	289	3.053	7	B130	09H41L	1	13
26.0	506	1.0	27.0	253	2.421	8	B62	09H41-	1	9.9
26.0	506	1.0	27.0	253	2.421	8	B62	09H41L	1	10
27.0	506	1.3	50.0	253	3.003	8	B130	09H41-	1	13
27.0	506	1.3	50.0	253	3.003	8	B130	09H41L	1	13
32.0	405	1.1	40.0	203	2.946	10	B130	09H41-	1	13
32.0	405	1.1	40.0	203	2.946	10	B130	09H41L	1	13
37.0	375	2.6	160	188	13.735	4	B310	12H15-	1	21
37.0	375	2.6	160	188	13.735	4	B310	12H15L	1	21
38.0	375	1.2	90.0	188	8.891	4	B130	12H15-	1	16
38.0	375	1.2	90.0	188	8.891	4	B130	12H15L	1	16
47.0	300	2.1	140	150	13.025	5	B310	12H15-	1	21
47.0	300	2.1	140	150	13.025	5	B310	12H15L	1	21
54.0	253	1.2	62.0	127	2.542	16	B62	09H41-	2	10
54.0	253	1.2	62.0	127	2.542	16	B62	09H41L	2	10
55.0	253	1.7	130	123	2.559	16	B130	09H41-	2	12
55.0	253	1.7	130	123	2.559	16	B130	09H41L	2	12
55.0	253	2.4	310	108	3.352	16	B310	09H41-	2	15
55.0	253	2.4	310	108	3.352	16	B310	09H41L	2	15
62.0	214	1.5	91.0	107	12.434	7	B310	12H15-	1	21
62.0	214	1.5	91.0	107	12.434	7	B310	12H15L	1	21
62.0	214	3.0	189	107	23.710	7	B625	12H15-	1	34
62.0	214	3.0	189	107	23.710	7	B625	12H15L	1	34
68.0	203	1.4	130	101	2.496	20	B130	09H41-	2	12
68.0	203	1.4	130	101	2.496	20	B130	09H41L	2	12
69.0	188	2.6	180	94.0	23.207	8	B625	12H15-	1	34
69.0	188	2.6	180	94.0	23.207	8	B625	12H15L	1	34
70.0	203	1.9	300	93.0	3.162	20	B310	09H41-	2	15
70.0	203	1.9	300	93.0	3.162	20	B310	09H41L	2	15
70.0	188	1.3	90.0	94.0	12.319	8	B310	12H15-	1	21
70.0	188	1.3	90.0	94.0	12.319	8	B310	12H15L	1	21
83.0	150	1.9	160	75.0	22.520	10	B625	12H15-	1	34
83.0	150	1.9	160	75.0	22.520	10	B625	12H15L	1	34
85.0	162	1.4	120	81.0	2.491	25	B130	09H41-	2	12
85.0	162	1.4	120	81.0	2.491	25	B130	09H41L	2	12
86.0	162	2.0	255	81.0	3.146	25	B310	09H41-	2	15
86.0	162	2.0	255	81.0	3.146	25	B310	09H41L	2	15
93.0	145	1.2	112	72.0	2.432	28	B130	09H41-	2	12
93.0	145	1.2	112	72.0	2.432	28	B130	09H41L	2	12
95.0	145	1.5	204	72.0	3.008	28	B310	09H41-	2	15



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
95.0	145	1.5	204	72.0	3.008	28	B310	09H41L	2	15
103	127	1.0	108	63.0	2.418	32	B130	09H41-	2	12
103	127	1.0	108	63.0	2.418	32	B130	09H41L	2	12
107	127	1.3	200	63.0	2.968	32	B310	09H41-	2	15
107	127	1.3	200	63.0	2.968	32	B310	09H41L	2	15
116	116	1.1	123	58.0	2.430	35	B130	09H41-	2	12
116	116	1.1	123	58.0	2.430	35	B130	09H41L	2	12
118	116	1.5	255	58.0	3.000	35	B310	09H41-	2	15
118	116	1.5	255	58.0	3.000	35	B310	09H41L	2	15
134	101	1.3	250	51.0	2.962	40	B310	09H41-	2	15
134	101	1.3	250	51.0	2.962	40	B310	09H41L	2	15
143	93.8	2.7	625	47.0	13.749	16	B625	12H15-	2	28
143	93.8	2.7	625	47.0	13.749	16	B625	12H15L	2	28
149	93.8	1.2	310	47.0	8.752	16	B310	12H15-	2	19
149	93.8	1.2	310	47.0	8.752	16	B310	12H15L	2	19
160	81.0	1.1	200	41.0	2.919	50	B310	09H41-	2	15
160	81.0	1.1	200	41.0	2.919	50	B310	09H41L	2	15
184	75.0	2.2	560	38.0	13.560	20	B625	12H15-	2	28
184	75.0	2.2	560	38.0	13.560	20	B625	12H15L	2	28
200	57.9	1.8	355	27.0	6.717	70	B625	09H41-	2	24
200	57.9	1.8	355	27.0	6.717	70	B625	09H41L	2	25
225	60.0	2.2	540	30.0	12.913	25	B625	12H15-	2	28
225	60.0	2.2	540	30.0	12.913	25	B625	12H15L	2	28
228	60.0	1.0	255	30.0	8.546	25	B310	12H15-	2	19
228	60.0	1.0	255	30.0	8.546	25	B310	12H15L	2	19
244	53.6	1.5	364	27.0	12.405	28	B625	12H15-	2	28
244	53.6	1.5	364	27.0	12.405	28	B625	12H15L	2	28
255	40.5	1.2	305	20.0	6.710	100	B625	09H41-	2	24
255	40.5	1.2	305	20.0	6.710	100	B625	09H41L	2	25
272	46.9	1.3	360	23.0	12.297	32	B625	12H15-	2	28
272	46.9	1.3	360	23.0	12.297	32	B625	12H15L	2	28
305	42.9	1.5	455	21.0	12.377	35	B625	12H15-	2	28
305	42.9	1.5	455	21.0	12.377	35	B625	12H15L	2	28
340	37.5	1.3	450	19.0	12.276	40	B625	12H15-	2	28
340	37.5	1.3	450	19.0	12.276	40	B625	12H15L	2	28

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



1.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
16.0	1013	1.5	45.0	420	4.909	4	B62	12D41-	1	10
16.0	1013	1.5	45.0	420	4.909	4	B62	12D41L	1	10
16.0	1013	2.1	90.0	401	5.591	4	B130	12D41-	1	13
16.0	1013	2.1	90.0	401	5.591	4	B130	12D41L	1	13
20.0	810	1.2	42.0	362	4.842	5	B62	12D41-	1	10
20.0	810	1.2	42.0	362	4.842	5	B62	12D41L	1	10
20.0	810	1.7	75.0	360	5.351	5	B130	12D41-	1	13
20.0	810	1.7	75.0	360	5.351	5	B130	12D41L	1	13
26.0	579	1.0	28.0	289	4.774	7	B62	12D41-	1	10
26.0	579	1.0	28.0	289	4.774	7	B62	12D41L	1	10
27.0	579	1.3	51.0	289	5.153	7	B130	12D41-	1	13
27.0	579	1.3	51.0	289	5.153	7	B130	12D41L	1	13
30.0	506	1.1	50.0	253	5.103	8	B130	12D41-	1	13
30.0	506	1.1	50.0	253	5.103	8	B130	12D41L	1	13
30.0	506	2.5	90.0	180	9.019	8	B310	12D41-	1	18
30.0	506	2.5	90.0	180	9.019	8	B310	12D41L	1	18
36.0	405	2.1	75.0	147	8.857	10	B310	12D41-	1	18
36.0	405	2.1	75.0	147	8.857	10	B310	12D41L	1	18
61.0	253	1.0	62.0	125	4.880	16	B62	12D41-	2	11
61.0	253	1.0	62.0	125	4.880	16	B62	12D41L	2	11
63.0	253	1.5	130	120	4.896	16	B130	12D41-	2	12
63.0	253	1.5	130	120	4.896	16	B130	12D41L	2	12
64.0	253	2.1	310	105	5.452	16	B310	12D41-	2	15
64.0	253	2.1	310	105	5.452	16	B310	12D41L	2	16
77.0	203	1.2	130	101	4.834	20	B130	12D41-	2	12
77.0	203	1.2	130	101	4.834	20	B130	12D41L	2	12
79.0	203	1.7	300	91.0	5.262	20	B310	12D41-	2	15
79.0	203	1.7	300	91.0	5.262	20	B310	12D41L	2	16
96.0	162	1.3	120	81.0	4.829	25	B130	12D41-	2	12
96.0	162	1.3	120	81.0	4.829	25	B130	12D41L	2	12
98.0	162	1.7	255	81.0	5.246	25	B310	12D41-	2	15
98.0	162	1.7	255	81.0	5.246	25	B310	12D41L	2	16
105	145	1.0	112	72.0	4.770	28	B130	12D41-	2	12
105	145	1.0	112	72.0	4.770	28	B130	12D41L	2	12
107	145	1.3	204	72.0	5.108	28	B310	12D41-	2	15
107	145	1.3	204	72.0	5.108	28	B310	12D41L	2	16
121	127	1.1	200	63.0	5.068	32	B310	12D41-	2	15
121	127	1.1	200	63.0	5.068	32	B310	12D41L	2	16
134	116	1.3	255	58.0	5.100	35	B310	12D41-	2	15
134	116	1.3	255	58.0	5.100	35	B310	12D41L	2	16
151	101	1.1	250	51.0	5.062	40	B310	12D41-	2	15
151	101	1.1	250	51.0	5.062	40	B310	12D41L	2	16
172	81.0	2.2	375	34.0	8.829	50	B625	12D41-	2	25
172	81.0	2.2	375	34.0	8.829	50	B625	12D41L	2	25
226	57.9	1.6	355	27.0	8.817	70	B625	12D41-	2	25
226	57.9	1.6	355	27.0	8.817	70	B625	12D41L	2	25
288	40.5	1.1	305	20.0	8.810	100	B625	12D41-	2	25
288	40.5	1.1	305	20.0	8.810	100	B625	12D41L	2	25



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

1.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
11.0	1500	1.9	45.0	441	2.572	4	B62	09H60-	1	9.9
11.0	1500	1.9	45.0	441	2.572	4	B62	09H60L	1	10
11.0	1500	2.7	90.0	421	3.491	4	B130	09H60-	1	13
11.0	1500	2.7	90.0	421	3.491	4	B130	09H60L	1	13
14.0	1275	2.3	90.0	410	4.391	4	B130	09L51-	1	15
14.0	1200	1.6	42.0	377	2.504	5	B62	09H60-	1	9.9
14.0	1200	1.6	42.0	377	2.504	5	B62	09H60L	1	10
14.0	1200	2.2	75.0	373	3.251	5	B130	09H60-	1	13
14.0	1200	2.2	75.0	373	3.251	5	B130	09H60L	1	13
17.0	1020	1.9	75.0	366	4.151	5	B130	09L51-	1	15
17.0	1013	2.0	90.0	397	4.391	4	B130	09L41-	1	15
17.0	1013	2.0	90.0	397	4.391	4	B130	09L41L	1	15
18.0	857	1.3	28.0	330	2.436	7	B62	09H60-	1	9.9
18.0	857	1.3	28.0	330	2.436	7	B62	09H60L	1	10
19.0	857	1.7	51.0	319	3.053	7	B130	09H60-	1	13
19.0	857	1.7	51.0	319	3.053	7	B130	09H60L	1	13
21.0	810	1.6	75.0	357	4.151	5	B130	09L41-	1	15
21.0	810	1.6	75.0	357	4.151	5	B130	09L41L	1	15
21.0	750	1.1	27.0	285	2.421	8	B62	09H60-	1	9.9
21.0	750	1.1	27.0	285	2.421	8	B62	09H60L	1	10
21.0	750	1.4	50.0	280	3.003	8	B130	09H60-	1	13
21.0	750	1.4	50.0	280	3.003	8	B130	09H60L	1	13
22.0	729	1.5	51.0	314	3.953	7	B130	09L51-	1	15
25.0	638	1.3	50.0	276	3.903	8	B130	09L51-	1	15
25.0	600	1.2	40.0	243	2.946	10	B130	09H60-	1	13
25.0	600	1.2	40.0	243	2.946	10	B130	09H60L	1	13
28.0	579	1.3	51.0	289	3.953	7	B130	09L41-	1	15
28.0	579	1.3	51.0	289	3.953	7	B130	09L41L	1	15
28.0	579	2.8	91.0	209	7.934	7	B310	09L41-	1	19
28.0	579	2.8	91.0	209	7.934	7	B310	09L41L	1	19
30.0	510	1.1	40.0	241	3.846	10	B130	09L51-	1	15
31.0	506	2.3	90.0	179	7.819	8	B310	09L41-	1	19
31.0	506	2.3	90.0	179	7.819	8	B310	09L41L	1	19
32.0	506	1.1	50.0	253	3.903	8	B130	09L41-	1	15
32.0	506	1.1	50.0	253	3.903	8	B130	09L41L	1	15
37.0	405	2.0	75.0	146	7.657	10	B310	09L41-	1	19
37.0	405	2.0	75.0	146	7.657	10	B310	09L41L	1	19
42.0	375	1.5	62.0	131	2.542	16	B62	09H60-	2	10
42.0	375	1.5	62.0	131	2.542	16	B62	09H60L	2	10
43.0	375	2.7	310	111	3.352	16	B310	09H60-	2	15
43.0	375	2.7	310	111	3.352	16	B310	09H60L	2	15
44.0	375	1.9	130	125	2.559	16	B130	09H60-	2	12
44.0	375	1.9	130	125	2.559	16	B130	09H60L	2	12
52.0	300	1.2	62.0	112	2.485	20	B62	09H60-	2	10
52.0	300	1.2	62.0	112	2.485	20	B62	09H60L	2	10
53.0	319	2.4	310	108	4.252	16	B310	09L51-	2	17
54.0	300	1.6	130	107	2.496	20	B130	09H60-	2	12
54.0	300	1.6	130	107	2.496	20	B130	09H60L	2	12
55.0	300	2.2	300	96.0	3.162	20	B310	09H60-	2	15
55.0	300	2.2	300	96.0	3.162	20	B310	09H60L	2	15
66.0	255	1.9	300	93.0	4.062	20	B310	09L51-	2	17

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
67.0	253	2.0	310	104	4.252	16	B310	09L41-	2	17
67.0	253	2.0	310	104	4.252	16	B310	09L41L	2	17
67.0	240	1.6	120	98.0	2.491	25	B130	09H60-	2	12
67.0	240	1.6	120	98.0	2.491	25	B130	09H60L	2	12
68.0	240	2.2	255	91.0	3.146	25	B310	09H60-	2	15
68.0	240	2.2	255	91.0	3.146	25	B310	09H60L	2	15
73.0	214	1.3	112	88.0	2.432	28	B130	09H60-	2	12
73.0	214	1.3	112	88.0	2.432	28	B130	09H60L	2	12
75.0	214	1.7	204	81.0	3.008	28	B310	09H60-	2	15
75.0	214	1.7	204	81.0	3.008	28	B310	09H60L	2	15
82.0	204	1.9	255	89.0	4.046	25	B310	09L51-	2	17
82.0	188	1.2	108	78.0	2.418	32	B130	09H60-	2	12
82.0	188	1.2	108	78.0	2.418	32	B130	09H60L	2	12
83.0	203	1.6	300	90.0	4.062	20	B310	09L41-	2	17
83.0	203	1.6	300	90.0	4.062	20	B310	09L41L	2	17
84.0	188	1.4	200	72.0	2.968	32	B310	09H60-	2	15
84.0	188	1.4	200	72.0	2.968	32	B310	09H60L	2	15
90.0	182	1.5	204	80.0	3.908	28	B310	09L51-	2	17
91.0	171	1.3	123	76.0	2.430	35	B130	09H60-	2	12
91.0	171	1.3	123	76.0	2.430	35	B130	09H60L	2	12
93.0	171	1.7	255	67.0	3.000	35	B310	09H60-	2	15
93.0	171	1.7	255	67.0	3.000	35	B310	09H60L	2	15
101	159	1.3	200	71.0	3.868	32	B310	09L51-	2	17
102	162	1.7	255	81.0	4.046	25	B310	09L41-	2	17
102	162	1.7	255	81.0	4.046	25	B310	09L41L	2	17
102	150	1.2	123	63.0	2.416	40	B130	09H60-	2	12
102	150	1.2	123	63.0	2.416	40	B130	09H60L	2	12
106	150	1.4	250	58.0	2.962	40	B310	09H60-	2	15
106	150	1.4	250	58.0	2.962	40	B310	09H60L	2	15
112	146	1.5	255	66.0	3.900	35	B310	09L51-	2	17
112	145	1.3	204	72.0	3.908	28	B310	09L41-	2	17
112	145	1.3	204	72.0	3.908	28	B310	09L41L	2	17
122	127	2.4	360	51.0	7.797	32	B625	09L41-	2	26
122	127	2.4	360	51.0	7.797	32	B625	09L41L	2	26
126	120	1.2	200	50.0	2.919	50	B310	09H60-	2	15
126	120	1.2	200	50.0	2.919	50	B310	09H60L	2	15
127	128	1.3	250	57.0	3.862	40	B310	09L51-	2	17
127	127	1.1	200	63.0	3.868	32	B310	09L41-	2	17
127	127	1.1	200	63.0	3.868	32	B310	09L41L	2	17
137	116	2.8	455	48.0	7.877	35	B625	09L41-	2	26
137	116	2.8	455	48.0	7.877	35	B625	09L41L	2	26
140	116	1.3	255	58.0	3.900	35	B310	09L41-	2	17
140	116	1.3	255	58.0	3.900	35	B310	09L41L	2	17
151	102	1.1	200	49.0	3.819	50	B310	09L51-	2	17
153	101	2.4	450	41.0	7.776	40	B625	09L41-	2	26
153	101	2.4	450	41.0	7.776	40	B625	09L41L	2	26
158	101	1.1	250	51.0	3.862	40	B310	09L41-	2	17
158	101	1.1	250	51.0	3.862	40	B310	09L41L	2	17
166	85.7	1.1	175	41.0	2.916	70	B310	09H60-	2	15
166	85.7	1.1	175	41.0	2.916	70	B310	09H60L	2	15
180	81.0	2.1	375	34.0	7.629	50	B625	09L41-	2	26
180	81.0	2.1	375	34.0	7.629	50	B625	09L41L	2	26



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
189	72.9	1.9	355	27.0	7.617	70	B625	09L51-	2	26
201	60.0	1.5	305	21.0	6.710	100	B625	09H60-	2	24
201	60.0	1.5	305	21.0	6.710	100	B625	09H60L	2	25
236	57.9	1.5	355	27.0	7.617	70	B625	09L41-	2	26
236	57.9	1.5	355	27.0	7.617	70	B625	09L41L	2	26
241	51.0	1.3	305	21.0	7.610	100	B625	09L51-	2	26
302	40.5	1.0	305	20.0	7.610	100	B625	09L41-	2	26
302	40.5	1.0	305	20.0	7.610	100	B625	09L41L	2	26

2.5 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
30.0	750	1.2	90.0	355	8.891	4	B130	12H30L	1	16
30.0	750	2.7	160	273	13.735	4	B310	12H30L	1	21
37.0	600	2.2	140	234	13.025	5	B310	12H30L	1	21
49.0	429	1.7	91.0	198	12.434	7	B310	12H30L	1	21
56.0	375	1.4	90.0	170	12.319	8	B310	12H30L	1	21
57.0	375	3.6	320	188	35.893	4	B625	14H15-	1	58
60.0	375	1.6	160	188	20.635	4	B310	14H15-	1	45
66.0	300	1.1	75.0	141	12.157	10	B310	12H30L	1	21
74.0	300	1.3	140	150	19.925	5	B310	14H15-	1	45
74.0	300	2.9	280	150	33.025	5	B625	14H15-	1	58
100	214	1.9	189	107	30.610	7	B625	14H15-	1	58
110	188	1.6	180	94.0	30.107	8	B625	14H15-	1	58
114	188	2.7	625	88.0	13.749	16	B625	12H30L	2	28
119	188	1.3	310	93.0	8.752	16	B310	12H30L	2	19
133	150	1.2	160	75.0	29.420	10	B625	14H15-	1	58
147	150	1.0	300	75.0	8.562	20	B310	12H30L	2	19
147	150	2.2	560	66.0	13.560	20	B625	12H30L	2	28
180	120	2.2	540	56.0	12.913	25	B625	12H30L	2	28
182	120	1.0	255	60.0	8.546	25	B310	12H30L	2	19
195	107	1.8	364	54.0	12.405	28	B625	12H30L	2	28
218	93.8	1.5	360	47.0	12.297	32	B625	12H30L	2	28
238	93.8	1.7	625	47.0	20.649	16	B625	14H15-	2	52
244	85.7	1.8	455	43.0	12.377	35	B625	12H30L	2	28
272	75.0	1.5	450	38.0	12.276	40	B625	12H30L	2	28
294	75.0	1.4	560	38.0	20.460	20	B625	14H15-	2	52
320	60.0	1.2	375	30.0	12.129	50	B625	12H30L	2	28
360	60.0	1.4	540	30.0	19.813	25	B625	14H15-	2	52

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



2.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M ₂	n ₂	c	M _{2, max}	n _{2, th}	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
28.0	900	1.2	90.0	356	10.969	4	B130	14D36-	1	36
28.0	900	2.7	160	274	14.535	4	B310	14D36-	1	40
28.0	881	1.3	90.0	357	8.891	4	B130	12H35-	1	16
28.0	881	2.7	160	274	13.735	4	B310	12H35-	1	21
35.0	720	1.0	75.0	331	10.729	5	B130	14D36-	1	36
35.0	720	2.2	140	234	13.825	5	B310	14D36-	1	40
35.0	705	1.0	75.0	331	8.651	5	B130	12H35-	1	16
35.0	705	2.2	140	234	13.025	5	B310	12H35-	1	21
46.0	514	1.7	91.0	198	13.234	7	B310	14D36-	1	40
46.0	504	1.8	91.0	198	12.434	7	B310	12H35-	1	21
48.0	488	4.0	320	244	32.293	4	B625	12L20-	1	37
48.0	488	4.0	320	244	32.293	4	B625	12L20L	1	37
51.0	488	1.8	160	244	17.035	4	B310	12L20-	1	24
51.0	488	1.8	160	244	17.035	4	B310	12L20L	1	24
52.0	450	1.5	90.0	170	13.119	8	B310	14D36-	1	40
52.0	441	1.5	90.0	170	12.319	8	B310	12H35-	1	21
62.0	390	3.2	280	195	29.425	5	B625	12L20-	1	37
62.0	390	3.2	280	195	29.425	5	B625	12L20L	1	37
62.0	360	1.2	75.0	142	12.957	10	B310	14D36-	1	40
62.0	353	1.2	75.0	142	12.157	10	B310	12H35-	1	21
63.0	390	1.5	140	195	16.325	5	B310	12L20-	1	24
63.0	390	1.5	140	195	16.325	5	B310	12L20L	1	24
83.0	279	1.1	91.0	139	15.734	7	B310	12L20-	1	24
83.0	279	1.1	91.0	139	15.734	7	B310	12L20L	1	24
84.0	279	2.3	189	139	27.010	7	B625	12L20-	1	37
84.0	279	2.3	189	139	27.010	7	B625	12L20L	1	37
93.0	244	1.9	180	122	26.507	8	B625	12L20-	1	37
93.0	244	1.9	180	122	26.507	8	B625	12L20L	1	37
107	225	2.7	625	89.0	14.549	16	B625	14D36-	2	47
107	220	2.7	625	89.0	13.749	16	B625	12H35-	2	28
112	225	1.3	310	93.0	10.830	16	B310	14D36-	2	38
112	220	1.3	310	93.0	8.752	16	B310	12H35-	2	19
112	195	1.4	160	98.0	25.820	10	B625	12L20-	1	37
112	195	1.4	160	98.0	25.820	10	B625	12L20L	1	37
138	180	1.0	300	80.0	10.640	20	B310	14D36-	2	38
138	180	2.2	560	66.0	14.360	20	B625	14D36-	2	47
138	176	1.0	300	81.0	8.562	20	B310	12H35-	2	19
138	176	2.2	560	66.0	13.560	20	B625	12H35-	2	28
169	144	2.3	540	56.0	13.713	25	B625	14D36-	2	47
169	141	2.3	540	56.0	12.913	25	B625	12H35-	2	28
171	144	1.0	255	72.0	10.624	25	B310	14D36-	2	38
171	141	1.0	255	71.0	8.546	25	B310	12H35-	2	19
183	129	1.8	364	57.0	13.205	28	B625	14D36-	2	47
183	126	1.8	364	57.0	12.405	28	B625	12H35-	2	28
201	122	1.8	625	61.0	17.049	16	B625	12L20-	2	31
201	122	1.8	625	61.0	17.049	16	B625	12L20L	2	31
204	113	1.5	360	49.0	13.097	32	B625	14D36-	2	47
204	110	1.5	360	49.0	12.297	32	B625	12H35-	2	28
228	103	1.8	455	46.0	13.177	35	B625	14D36-	2	47
228	101	1.8	455	46.0	12.377	35	B625	12H35-	2	28
248	97.5	1.5	560	49.0	16.860	20	B625	12L20-	2	31



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
248	97.5	1.5	560	49.0	16.860	20	B625	12L20L	2	31
255	90.0	1.5	450	39.0	13.076	40	B625	14D36-	2	47
255	88.1	1.5	450	39.0	12.276	40	B625	12H35-	2	28
300	72.0	1.3	375	33.0	12.929	50	B625	14D36-	2	47
300	70.5	1.3	375	33.0	12.129	50	B625	12H35-	2	28
304	78.0	1.5	540	39.0	16.213	25	B625	12L20-	2	31
304	78.0	1.5	540	39.0	16.213	25	B625	12L20L	2	31
329	69.6	1.1	364	35.0	15.705	28	B625	12L20-	2	31
329	69.6	1.1	364	35.0	15.705	28	B625	12L20L	2	31
411	55.7	1.1	455	28.0	15.677	35	B625	12L20-	2	31
411	55.7	1.1	455	28.0	15.677	35	B625	12L20L	2	31

3.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
86.0	375	1.1	160	188	29.835	4	B310	14L15-	1	50
86.0	375	2.5	320	188	45.093	4	B625	14L15-	1	63
107	300	2.0	280	150	42.225	5	B625	14L15-	1	63
143	214	1.3	189	107	39.810	7	B625	14L15-	1	63
158	188	1.1	180	94.0	39.307	8	B625	14L15-	1	63
342	93.8	1.2	625	47.0	29.849	16	B625	14L15-	2	57

4 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
102	356	2.2	320	178	86.693	4	B625	19F14-	1	73
126	285	1.8	280	143	83.825	5	B625	19F14-	1	73
168	204	1.1	189	102	81.410	7	B625	19F14-	1	73

4.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
113	338	2.0	320	169	56.393	4	B625	14P14-	1	68
140	270	1.6	280	135	53.525	5	B625	14P14-	1	68
187	193	1.0	189	96.0	51.110	7	B625	14P14-	1	68

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors



4.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	1013	3.9	320	276	32.293	4	B625	12L41-	1	37
41.0	1013	1.8	160	248	17.035	4	B310	12L41-	1	24
50.0	810	3.2	280	226	29.425	5	B625	12L41-	1	37
51.0	810	1.4	140	216	16.325	5	B310	12L41-	1	24
51.0	806	3.3	320	268	35.893	4	B625	14H32-	1	58
53.0	806	1.5	160	237	20.635	4	B310	14H32-	1	45
65.0	645	1.2	140	208	19.925	5	B310	14H32-	1	45
65.0	645	2.7	280	220	33.025	5	B625	14H32-	1	58
68.0	579	1.2	91.0	189	15.734	7	B310	12L41-	1	24
69.0	579	2.5	189	184	27.010	7	B625	12L41-	1	37
76.0	506	2.2	180	159	26.507	8	B625	12L41-	1	37
87.0	461	2.1	189	181	30.610	7	B625	14H32-	1	58
91.0	405	1.8	160	135	25.820	10	B625	12L41-	1	37
96.0	403	1.8	180	157	30.107	8	B625	14H32-	1	58
116	323	1.4	160	133	29.420	10	B625	14H32-	1	58
164	253	1.8	625	83.0	17.049	16	B625	12L41-	2	31
202	203	1.5	560	62.0	16.860	20	B625	12L41-	2	31
208	202	1.5	625	81.0	20.649	16	B625	14H32-	2	52
248	162	1.5	540	53.0	16.213	25	B625	12L41-	2	31
258	161	1.2	560	60.0	20.460	20	B625	14H32-	2	52
268	145	1.2	364	54.0	15.705	28	B625	12L41-	2	31
315	129	1.3	540	52.0	19.813	25	B625	14H32-	2	52
335	116	1.2	455	45.0	15.677	35	B625	12L41-	2	31

5.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
64.0	806	2.7	320	259	45.093	4	B625	14L32-	1	63
65.0	806	1.2	160	225	29.835	4	B310	14L32-	1	50
80.0	645	2.2	280	214	42.225	5	B625	14L32-	1	63
107	461	1.7	189	179	39.810	7	B625	14L32-	1	63
118	403	1.5	180	155	39.307	8	B625	14L32-	1	63
143	323	1.1	160	131	38.620	10	B625	14L32-	1	63
256	202	1.2	625	78.0	29.849	16	B625	14L32-	2	57
387	129	1.0	540	50.0	29.013	25	B625	14L32-	2	57

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
150	356	1.5	320	178	126.693	4	B625	19J14-	1	80
186	285	1.2	280	143	123.825	5	B625	19J14-	1	80



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, self-ventilated motors

6.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
79.0	750	1.0	160	213	73.110	4	B310	19F30-	1	60
79.0	750	2.3	320	250	86.693	4	B625	19F30-	1	73
98.0	600	1.8	280	208	83.825	5	B625	19F30-	1	73
131	429	1.4	189	176	81.410	7	B625	19F30-	1	73
144	375	1.2	180	153	80.907	8	B625	19F30-	1	73
312	188	1.0	625	75.0	73.152	16	B625	19F30-	2	67

7.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
79.0	806	2.2	320	249	56.393	4	B625	14P32-	1	68
98.0	645	1.8	280	208	53.525	5	B625	14P32-	1	68
131	461	1.4	189	176	51.110	7	B625	14P32-	1	68
144	403	1.2	180	152	50.607	8	B625	14P32-	1	68

7.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
192	338	1.2	320	169	181.693	4	B625	19P14-	1	90

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
109	750	1.6	320	235	126.693	4	B625	19J30-	1	80
135	600	1.3	280	198	123.825	5	B625	19J30-	1	80
181	429	1.1	189	172	121.410	7	B625	19J30-	1	80

10 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
120	750	1.5	320	231	181.693	4	B625	19P30-	1	90
149	600	1.2	280	195	178.825	5	B625	19P30-	1	90

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



Inverter power supply 400 V, forced ventilated motors

1.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
25.0	413	3.7	160	206	10.435	4	B310	12D17-	1	20
26.0	413	1.7	90.0	206	5.591	4	B130	12D17-	1	15
32.0	330	3.0	140	165	9.725	5	B310	12D17-	1	20
33.0	330	1.4	75.0	165	5.351	5	B130	12D17-	1	15
43.0	236	2.1	91.0	118	9.134	7	B310	12D17-	1	20
44.0	236	1.1	51.0	118	5.153	7	B130	12D17-	1	15
49.0	206	1.9	90.0	103	9.019	8	B310	12D17-	1	20
58.0	165	1.3	75.0	83.0	8.857	10	B310	12D17-	1	20
92.0	103	3.7	625	52.0	10.449	16	B625	12D17-	2	27
104	103	1.7	310	52.0	5.452	16	B310	12D17-	2	18
122	82.5	3.0	560	41.0	10.260	20	B625	12D17-	2	27
129	82.5	1.4	300	41.0	5.262	20	B310	12D17-	2	18
152	66.0	3.1	540	33.0	9.613	25	B625	12D17-	2	27
159	66.0	1.4	255	33.0	5.246	25	B310	12D17-	2	18
171	58.9	2.1	364	29.0	9.105	28	B625	12D17-	2	27
174	58.9	1.1	204	29.0	5.108	28	B310	12D17-	2	18
190	51.6	1.9	360	26.0	8.997	32	B625	12D17-	2	27
213	47.1	2.1	455	24.0	9.077	35	B625	12D17-	2	27
218	47.1	1.1	255	24.0	5.100	35	B310	12D17-	2	18
238	41.3	1.9	450	21.0	8.976	40	B625	12D17-	2	27
280	33.0	1.3	375	17.0	8.829	50	B625	12D17-	2	27



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

1.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, \text{th}}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
40.0	338	5.0	320	169	28.993	4	B625	12H14-	1	36
40.0	338	5.0	320	169	29.793	4	B625	14D14-	1	57
45.0	338	1.0	90.0	169	8.891	4	B130	12H14-	1	18
45.0	338	2.3	160	169	13.735	4	B310	12H14-	1	23
45.0	338	2.3	160	169	14.535	4	B310	14D14-	1	44
53.0	270	4.0	280	135	26.125	5	B625	12H14-	1	36
53.0	270	4.0	280	135	26.925	5	B625	14D14-	1	57
56.0	270	1.8	140	135	13.025	5	B310	12H14-	1	23
56.0	270	1.8	140	135	13.825	5	B310	14D14-	1	44
74.0	193	1.2	91.0	96.0	12.434	7	B310	12H14-	1	23
74.0	193	1.2	91.0	96.0	13.234	7	B310	14D14-	1	44
75.0	193	2.5	189	96.0	23.710	7	B625	12H14-	1	36
75.0	193	2.5	189	96.0	24.510	7	B625	14D14-	1	57
83.0	169	2.2	180	84.0	23.207	8	B625	12H14-	1	36
83.0	169	2.2	180	84.0	24.007	8	B625	14D14-	1	57
84.0	169	1.1	90.0	84.0	12.319	8	B310	12H14-	1	23
84.0	169	1.1	90.0	84.0	13.119	8	B310	14D14-	1	44
100	135	1.6	160	68.0	22.520	10	B625	12H14-	1	36
100	135	1.6	160	68.0	23.320	10	B625	14D14-	1	57
177	84.4	2.3	625	42.0	13.749	16	B625	12H14-	2	30
177	84.4	2.3	625	42.0	14.549	16	B625	14D14-	2	51
179	84.4	1.1	310	42.0	8.752	16	B310	12H14-	2	21
221	67.5	1.9	560	34.0	13.560	20	B625	12H14-	2	30
221	67.5	1.9	560	34.0	14.360	20	B625	14D14-	2	51
270	54.0	1.9	540	27.0	12.913	25	B625	12H14-	2	30
270	54.0	1.9	540	27.0	13.713	25	B625	14D14-	2	51
292	48.2	1.3	364	24.0	12.405	28	B625	12H14-	2	30
292	48.2	1.3	364	24.0	13.205	28	B625	14D14-	2	51
326	42.2	1.1	360	21.0	12.297	32	B625	12H14-	2	30
326	42.2	1.1	360	21.0	13.097	32	B625	14D14-	2	51
365	38.6	1.3	455	19.0	12.377	35	B625	12H14-	2	30
365	38.6	1.3	455	19.0	13.177	35	B625	14D14-	2	51
408	33.8	1.1	450	17.0	12.276	40	B625	12H14-	2	30
408	33.8	1.1	450	17.0	13.076	40	B625	14D14-	2	51

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



2.2 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
22.0	881	3.4	160	288	10.435	4	B310	12D35-	1	20
23.0	881	1.6	90.0	376	5.591	4	B130	12D35-	1	15
28.0	705	1.3	75.0	343	5.351	5	B130	12D35-	1	15
28.0	705	2.8	140	244	9.725	5	B310	12D35-	1	20
37.0	504	2.2	91.0	203	9.134	7	B310	12D35-	1	20
42.0	441	1.8	90.0	174	9.019	8	B310	12D35-	1	20
50.0	353	1.5	75.0	144	8.857	10	B310	12D35-	1	20
81.0	220	3.4	625	92.0	10.449	16	B625	12D35-	2	27
89.0	220	1.6	310	98.0	5.452	16	B310	12D35-	2	18
106	176	2.8	560	69.0	10.260	20	B625	12D35-	2	27
110	176	1.3	300	85.0	5.262	20	B310	12D35-	2	18
132	141	2.8	540	58.0	9.613	25	B625	12D35-	2	27
137	141	1.3	255	71.0	5.246	25	B310	12D35-	2	18
146	126	2.2	364	58.0	9.105	28	B625	12D35-	2	27
163	110	1.9	360	50.0	8.997	32	B625	12D35-	2	27
183	101	2.2	455	47.0	9.077	35	B625	12D35-	2	27
204	88.1	1.9	450	40.0	8.976	40	B625	12D35-	2	27
240	70.5	1.6	375	34.0	8.829	50	B625	12D35-	2	27
315	50.4	1.1	355	25.0	8.817	70	B625	12D35-	2	27

2.9 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
62.0	413	3.3	320	206	32.293	4	B625	12L17-	1	39
64.0	413	1.5	160	206	17.035	4	B310	12L17-	1	26
79.0	330	1.2	140	165	16.325	5	B310	12L17-	1	26
79.0	330	2.7	280	165	29.425	5	B625	12L17-	1	39
106	236	1.8	189	118	27.010	7	B625	12L17-	1	39
117	206	1.5	180	103	26.507	8	B625	12L17-	1	39
141	165	1.1	160	83.0	25.820	10	B625	12L17-	1	39
253	103	1.5	625	52.0	17.049	16	B625	12L17-	2	33
313	82.5	1.2	560	41.0	16.860	20	B625	12L17-	2	33
383	66.0	1.3	540	33.0	16.213	25	B625	12L17-	2	33

3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
88.0	300	1.2	160	150	20.635	4	B310	14H12-	1	49
88.0	300	2.6	320	150	35.893	4	B625	14H12-	1	62
109	240	2.1	280	120	33.025	5	B625	14H12-	1	62
146	171	1.3	189	86.0	30.610	7	B625	14H12-	1	62
162	150	1.1	180	75.0	30.107	8	B625	14H12-	1	62
350	75.0	1.2	625	38.0	20.649	16	B625	14H12-	2	56
529	48.0	1.0	540	24.0	19.813	25	B625	14H12-	2	56



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

3.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	750	2.0	160	257	14.535	4	B310	14D30-	1	44
49.0	600	1.7	140	222	13.825	5	B310	14D30-	1	44
65.0	429	1.3	91.0	192	13.234	7	B310	14D30-	1	44
65.0	429	2.9	189	186	24.510	7	B625	14D30-	1	57
72.0	375	2.5	180	161	24.007	8	B625	14D30-	1	57
73.0	375	1.1	90.0	164	13.119	8	B310	14D30-	1	44
87.0	300	1.8	160	136	23.320	10	B625	14D30-	1	57
156	188	2.1	625	85.0	14.549	16	B625	14D30-	2	51
193	150	1.7	560	63.0	14.360	20	B625	14D30-	2	51
236	120	1.7	540	54.0	13.713	25	B625	14D30-	2	51
256	107	1.3	364	54.0	13.205	28	B625	14D30-	2	51
286	93.8	1.1	360	47.0	13.097	32	B625	14D30-	2	51
320	85.7	1.3	455	43.0	13.177	35	B625	14D30-	2	51
357	75.0	1.1	450	38.0	13.076	40	B625	14D30-	2	51

3.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
39.0	844	2.0	160	254	13.735	4	B310	12H34-	1	23
49.0	675	1.6	140	220	13.025	5	B310	12H34-	1	23
65.0	482	1.3	91.0	191	12.434	7	B310	12H34-	1	23
65.0	482	2.8	189	185	23.710	7	B625	12H34-	1	36
72.0	422	2.4	180	160	23.207	8	B625	12H34-	1	36
73.0	422	1.1	90.0	164	12.319	8	B310	12H34-	1	23
87.0	338	1.8	160	136	22.520	10	B625	12H34-	1	36
156	211	2.0	625	84.0	13.749	16	B625	12H34-	2	30
193	169	1.6	560	63.0	13.560	20	B625	12H34-	2	30
236	135	1.6	540	54.0	12.913	25	B625	12H34-	2	30
256	121	1.3	364	55.0	12.405	28	B625	12H34-	2	30
286	106	1.1	360	47.0	12.297	32	B625	12H34-	2	30
320	96.4	1.3	455	45.0	12.377	35	B625	12H34-	2	30
357	84.4	1.1	450	38.0	12.276	40	B625	12H34-	2	30

4.3 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
115	338	2.0	320	169	45.093	4	B625	14L14-	1	67
142	270	1.6	280	135	42.225	5	B625	14L14-	1	67

4.6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
158	263	1.5	320	131	56.393	4	B625	14P11-	1	72
195	210	1.2	280	105	53.525	5	B625	14P11-	1	72

Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors



4.8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
143	300	1.6	320	150	86.693	4	B625	19F12-	1	79
177	240	1.3	280	120	83.825	5	B625	19F12-	1	79

5.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
51.0	975	3.1	320	265	32.293	4	B625	12L39-	1	39
53.0	975	1.4	160	234	17.035	4	B310	12L39-	1	26
65.0	780	1.1	140	206	16.325	5	B310	12L39-	1	26
65.0	780	2.5	280	218	29.425	5	B625	12L39-	1	39
87.0	557	2.0	189	181	27.010	7	B625	12L39-	1	39
96.0	488	1.7	180	156	26.507	8	B625	12L39-	1	39
116	390	1.4	160	133	25.820	10	B625	12L39-	1	39
208	244	1.4	625	80.0	17.049	16	B625	12L39-	2	33
258	195	1.2	560	59.0	16.860	20	B625	12L39-	2	33
315	156	1.2	540	51.0	16.213	25	B625	12L39-	2	33

6 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
77.0	694	1.1	160	216	20.635	4	B310	14H28-	1	49
77.0	694	2.4	320	252	35.893	4	B625	14H28-	1	62
95.0	555	1.9	280	210	33.025	5	B625	14H28-	1	62
128	396	1.5	189	177	30.610	7	B625	14H28-	1	62
141	347	1.3	180	153	30.107	8	B625	14H28-	1	62
305	173	1.1	625	76.0	20.649	16	B625	14H28-	2	56

8 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
96.0	750	1.9	320	241	45.093	4	B625	14L30-	1	67
119	600	1.5	280	202	42.225	5	B625	14L30-	1	67
159	429	1.2	189	174	39.810	7	B625	14L30-	1	67
175	375	1.0	180	150	39.307	8	B625	14L30-	1	67

9.1 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
124	656	1.5	320	231	56.393	4	B625	14P26-	1	72
153	525	1.2	280	196	53.525	5	B625	14P26-	1	72



Technical data

Bevel gearbox g880-B

Selection tables

Inverter power supply 400 V, forced ventilated motors

9.7 kW

Inverter operation							Geared motor		Number of stages	Mass
M_2	n_2	c	$M_{2, \max}$	$n_{2, th}$	J	i	g880-	MCS	z	m
Nm	rpm		Nm	rpm	kgcm ²					kg
122	713	1.5	320	231	86.693	4	B625	19F29-	1	79
151	570	1.2	280	195	83.825	5	B625	19F29-	1	79

Technical data

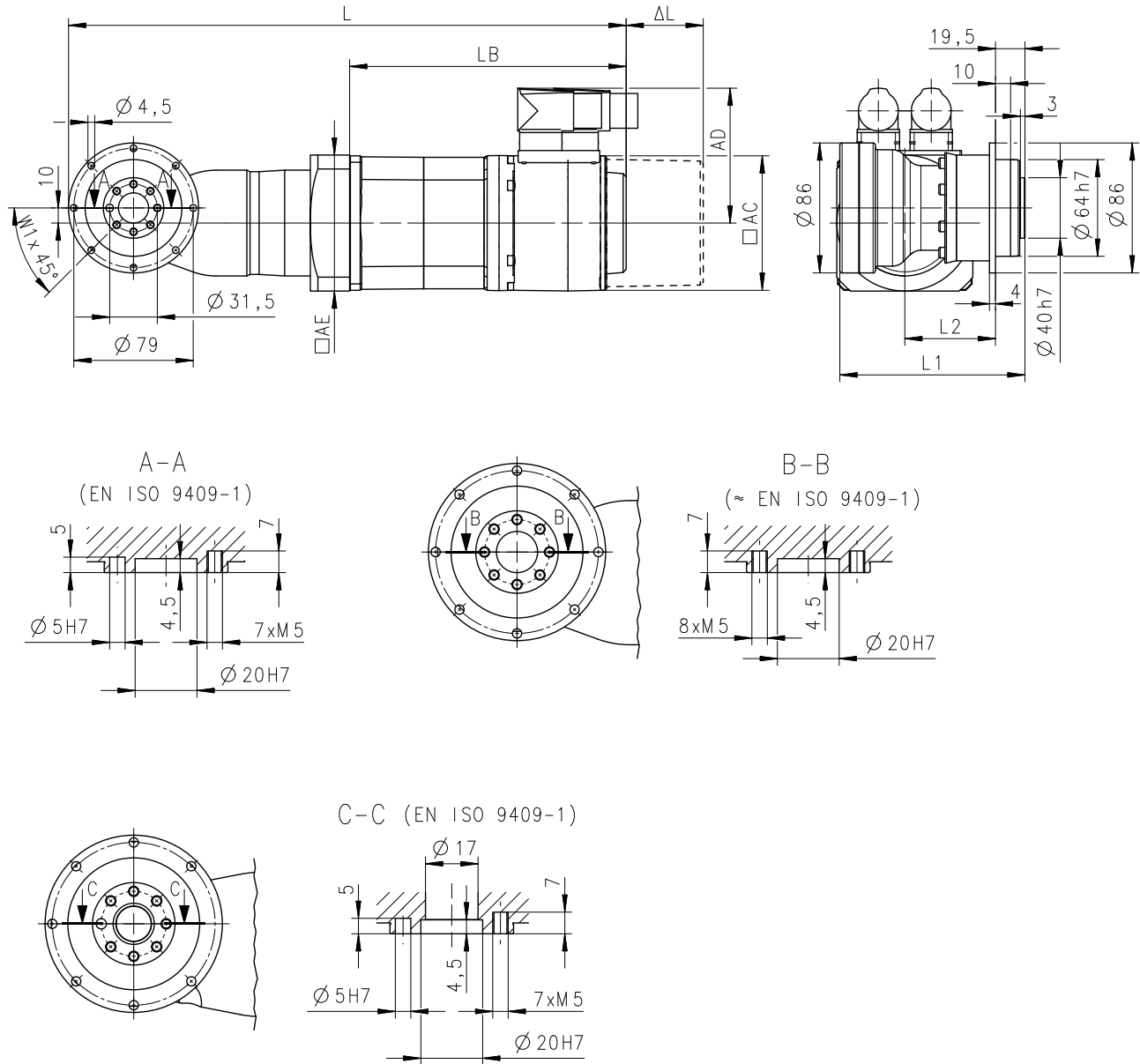
Bevel gearbox g880-B
Basic dimensions



Basic dimensions

g880-B62 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800845-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	341	341	371	371
Gearbox length	L1	mm	104.5	104.5	104.5	104.5
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70

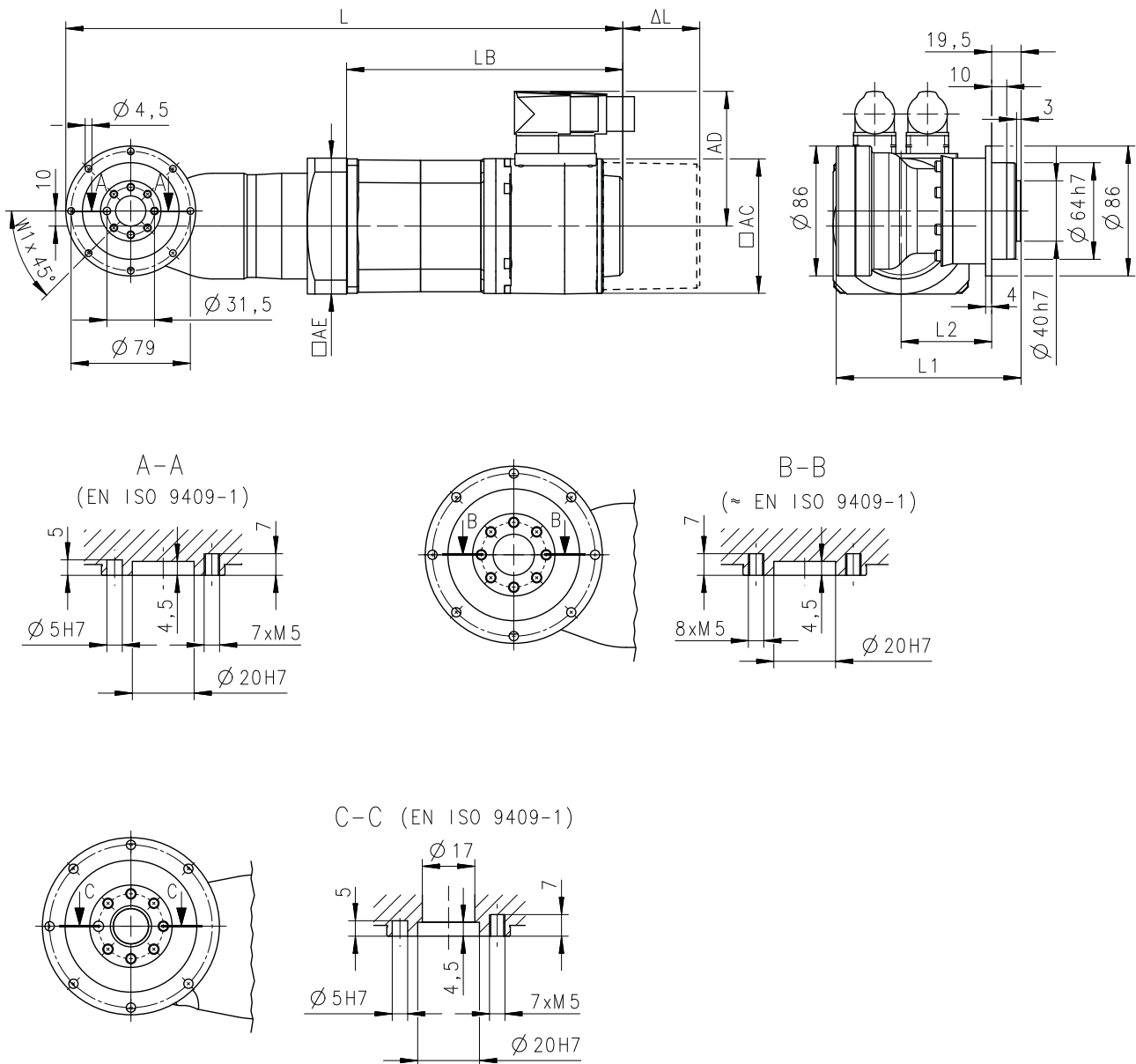


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B62 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800845-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	311	341	341	371	371
Gearbox length	L1	mm	122.5	122.5	122.5	122.5	122.5
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70

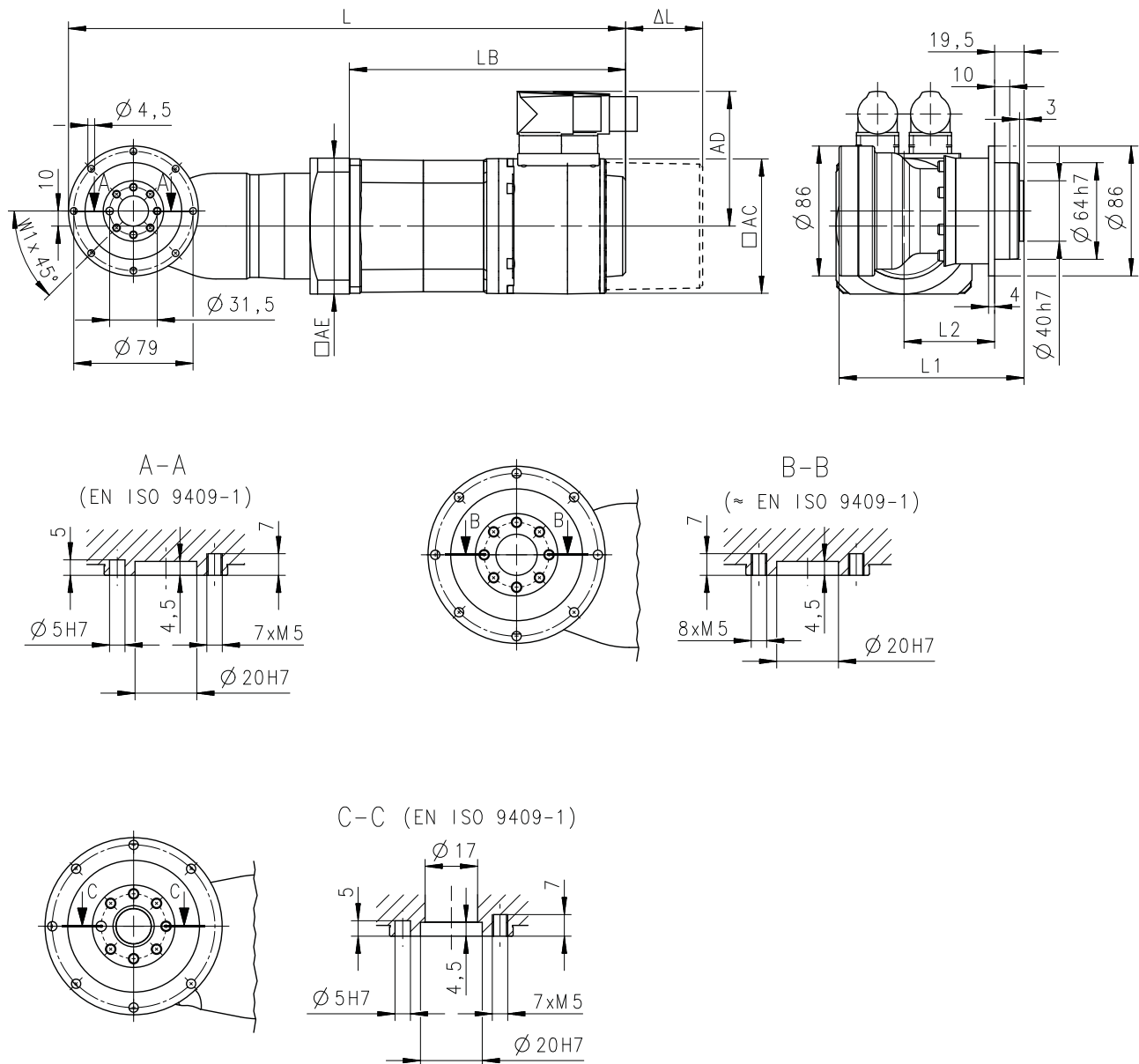
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B62 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800845-00

Motor			MCS 09					
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L
Total length	L	mm	368	368	388	388	408	408
Gearbox length	L1	mm	104.5	104.5	104.5	104.5	104.5	104.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

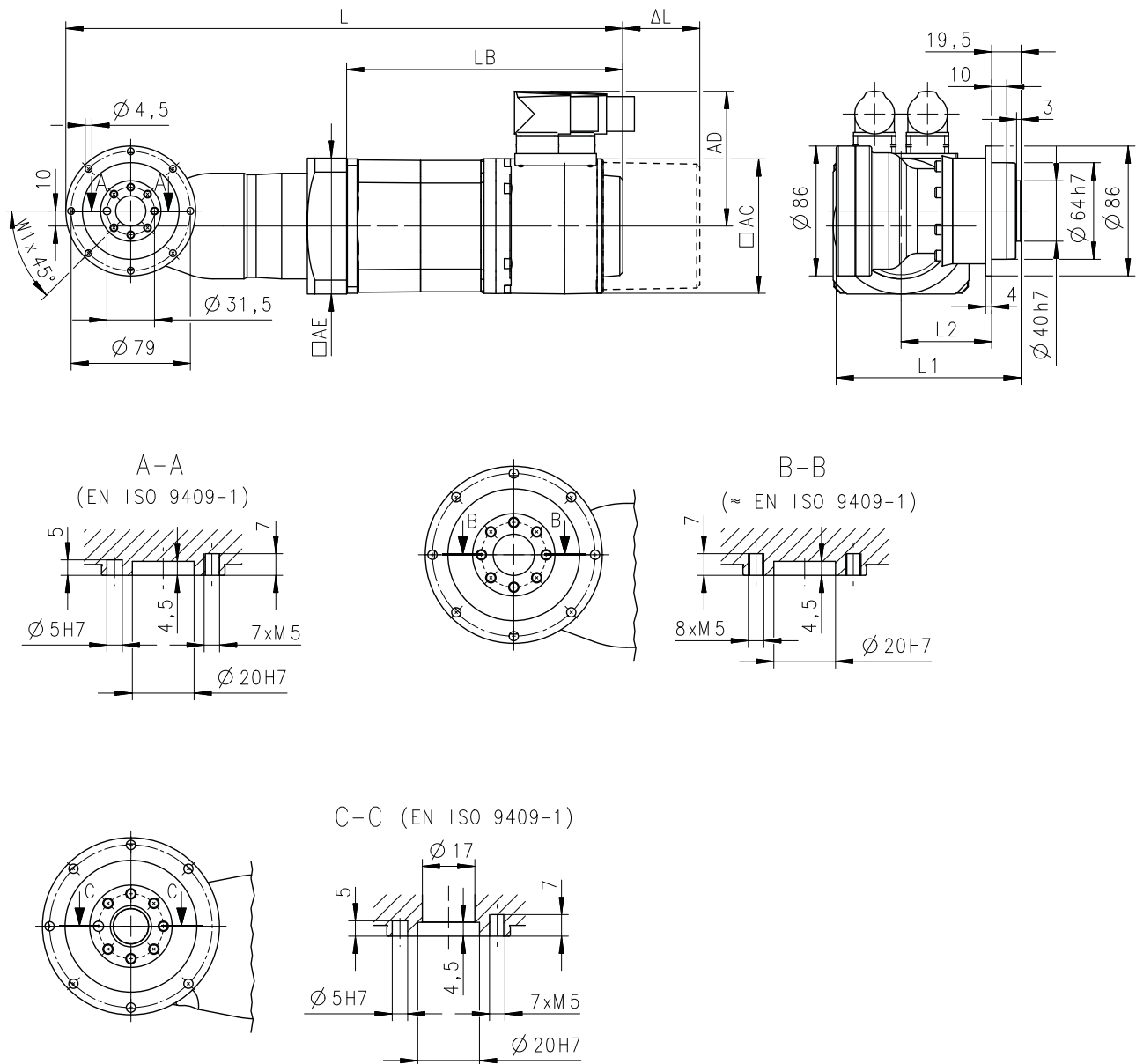


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B62 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800845-00

Motor			MCS 09					
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L
Total length	L	mm	368	368	388	388	408	408
Gearbox length	L1	mm	122.5	122.5	122.5	122.5	122.5	122.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90

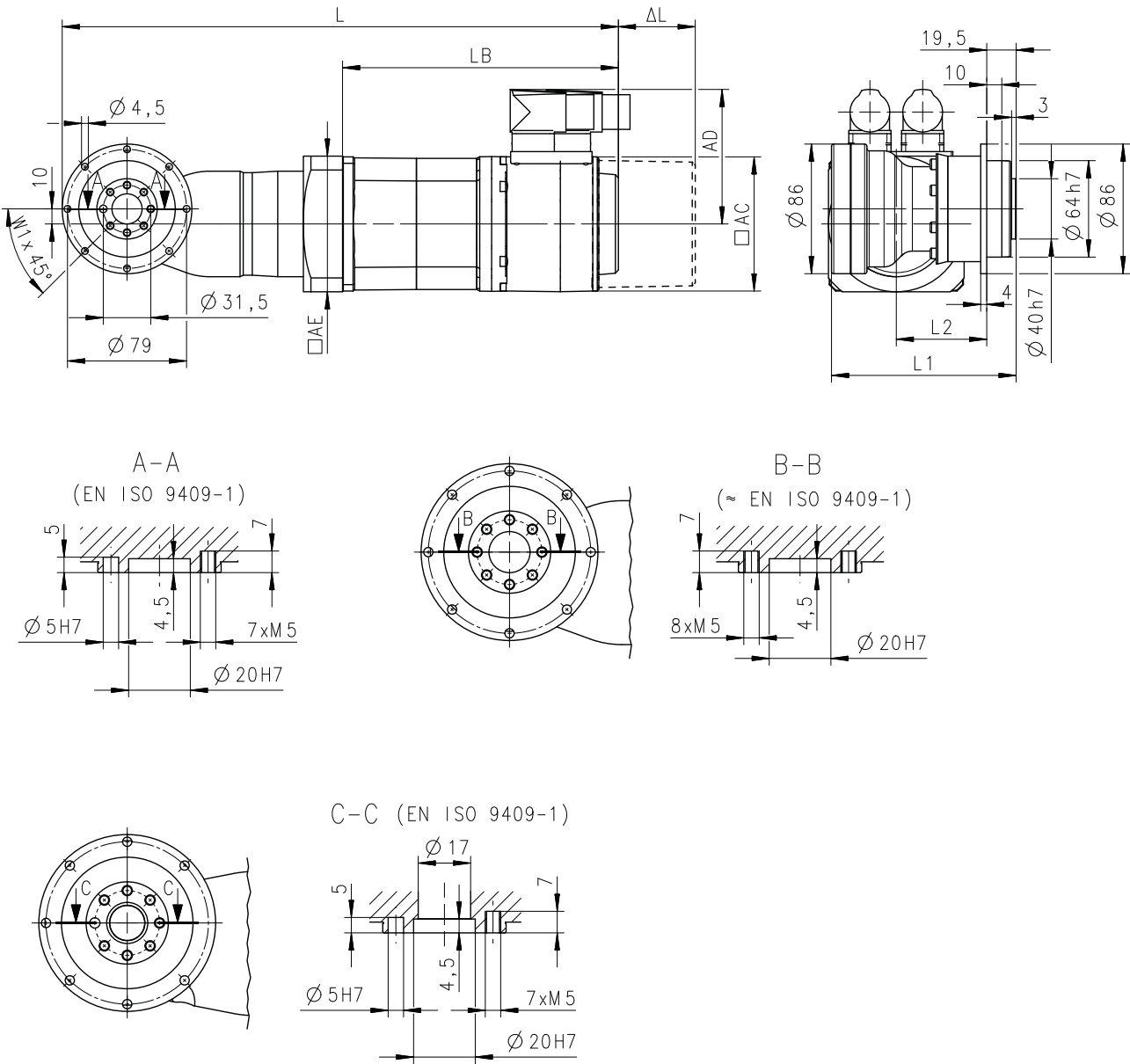
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B62 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800845-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	387	387
Gearbox length	L1	mm	104.5	104.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115

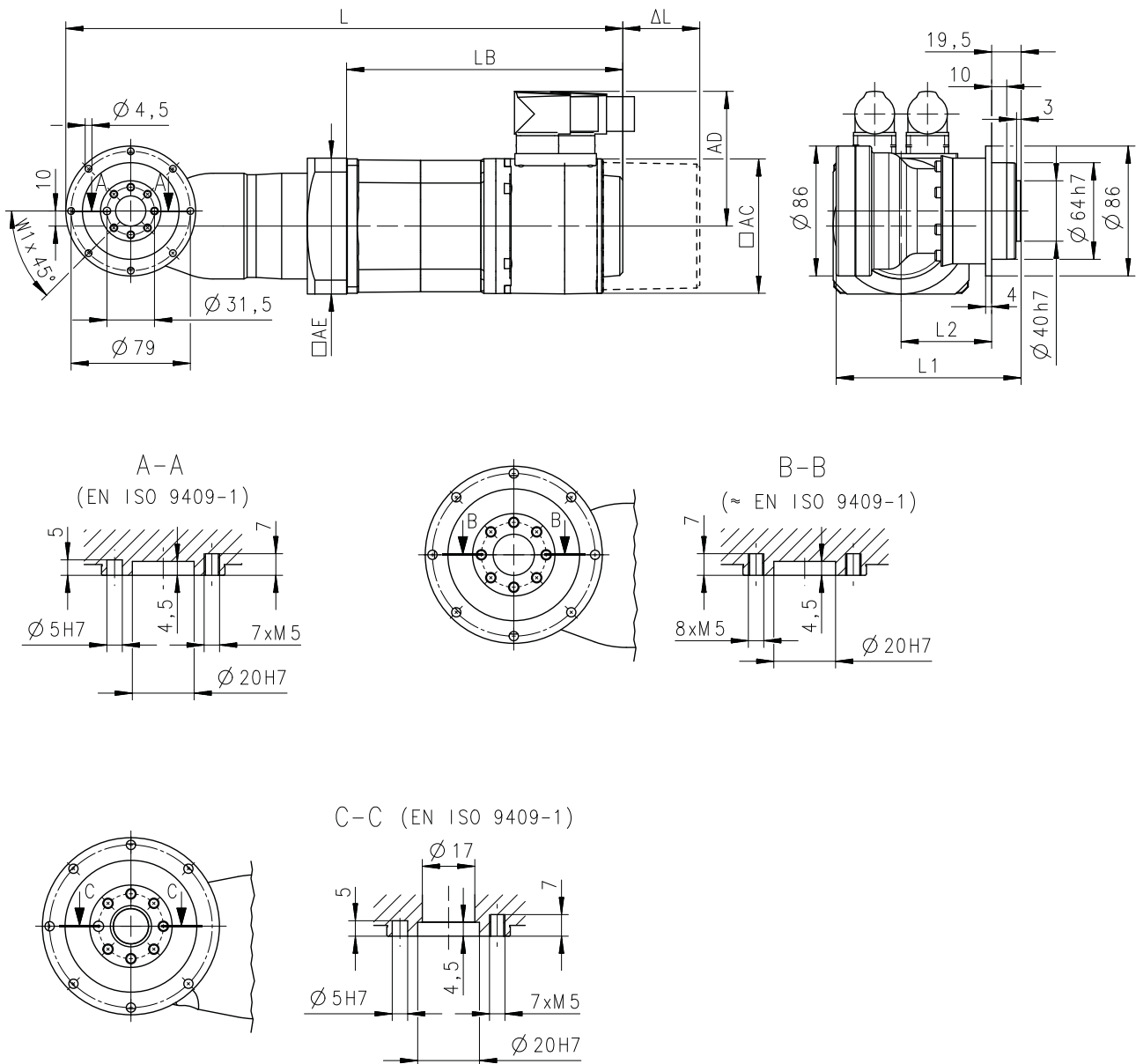


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B62 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800845-00

Motor			MCS 12
			D41- D41L
Total length	L	mm	387
Gearbox length	L1	mm	122.5
Motor length	LB	mm	188
Motor diameter	AC	mm	116
Motor/connection distance	AD	mm	105
Gearbox diameter	AE	mm	115

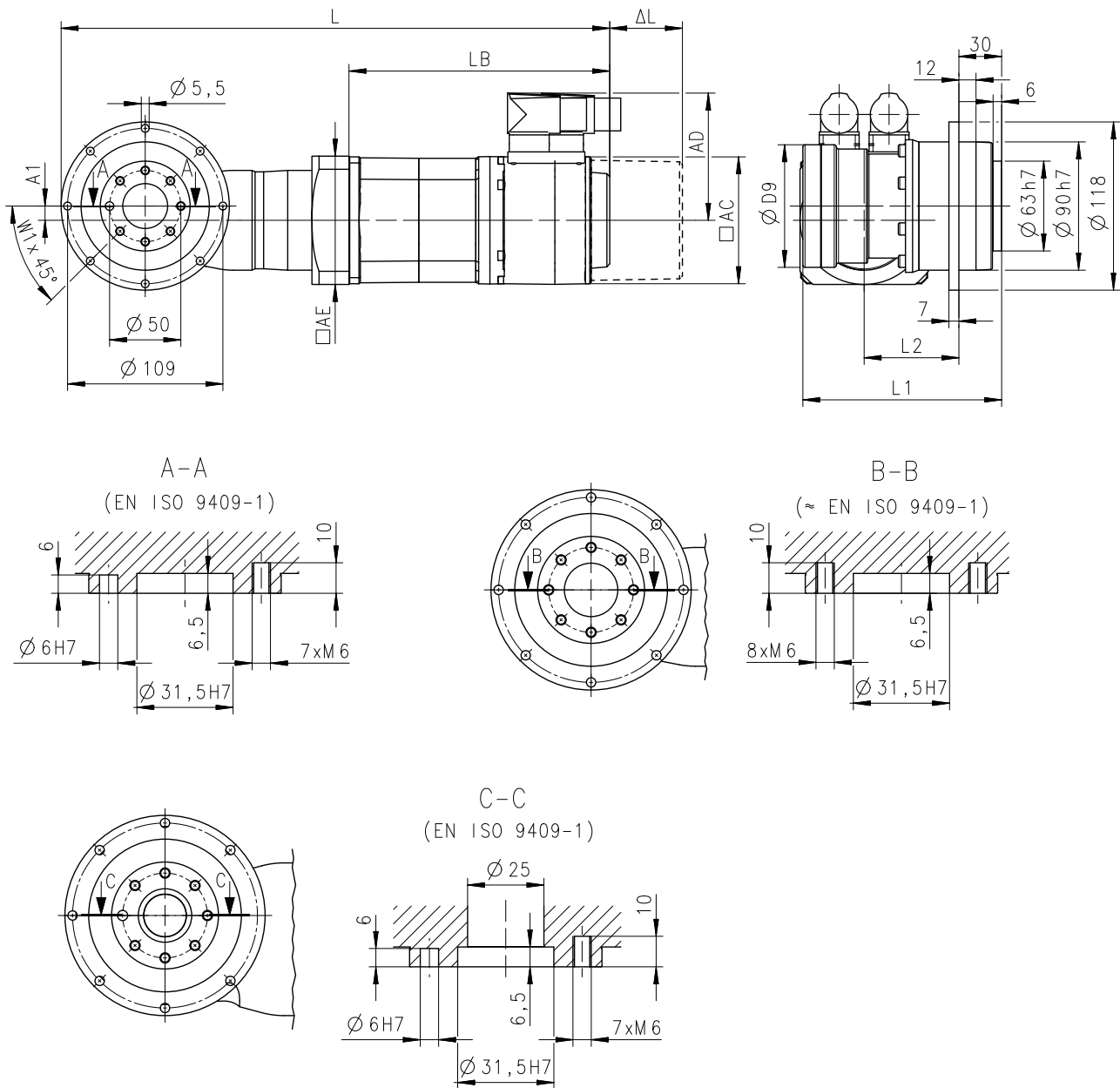
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B130 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800846-00

Motor			MCS 06				
			C41- C41L	F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	327	357	357	387	387
Gearbox length	L1	mm	139.5	139.5	139.5	139.5	139.5
Motor length	LB	mm	132	162	162	192	192
Motor diameter	AC	mm	86	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77	77
Gearbox diameter	AE	mm	70	70	70	70	70

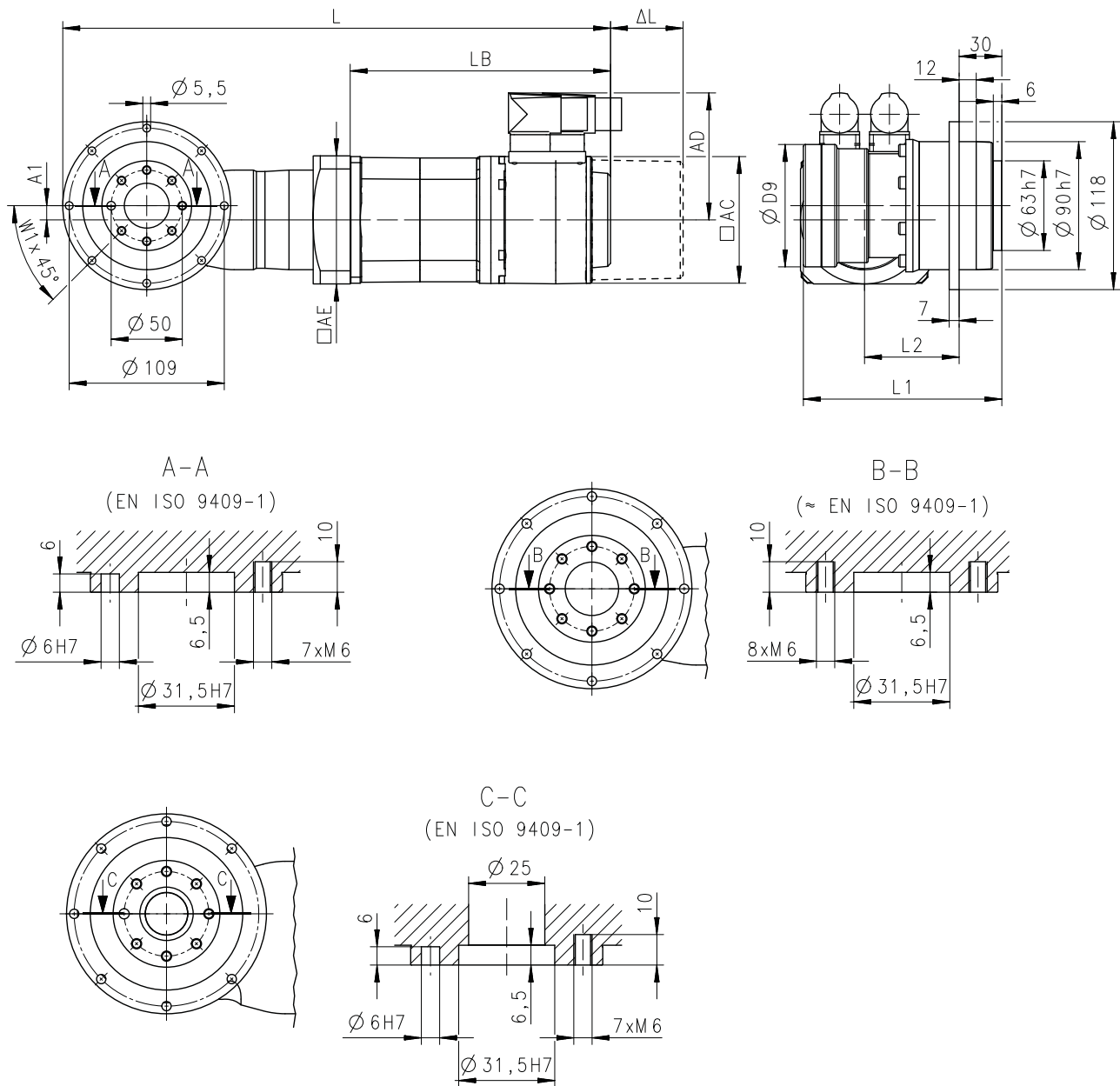


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B130 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800846-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-
Total length	L	mm	392	392	412	412	432	432	472	472
Gearbox length	L1	mm	132	132	132	132	132	132	132	132
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90	90	90

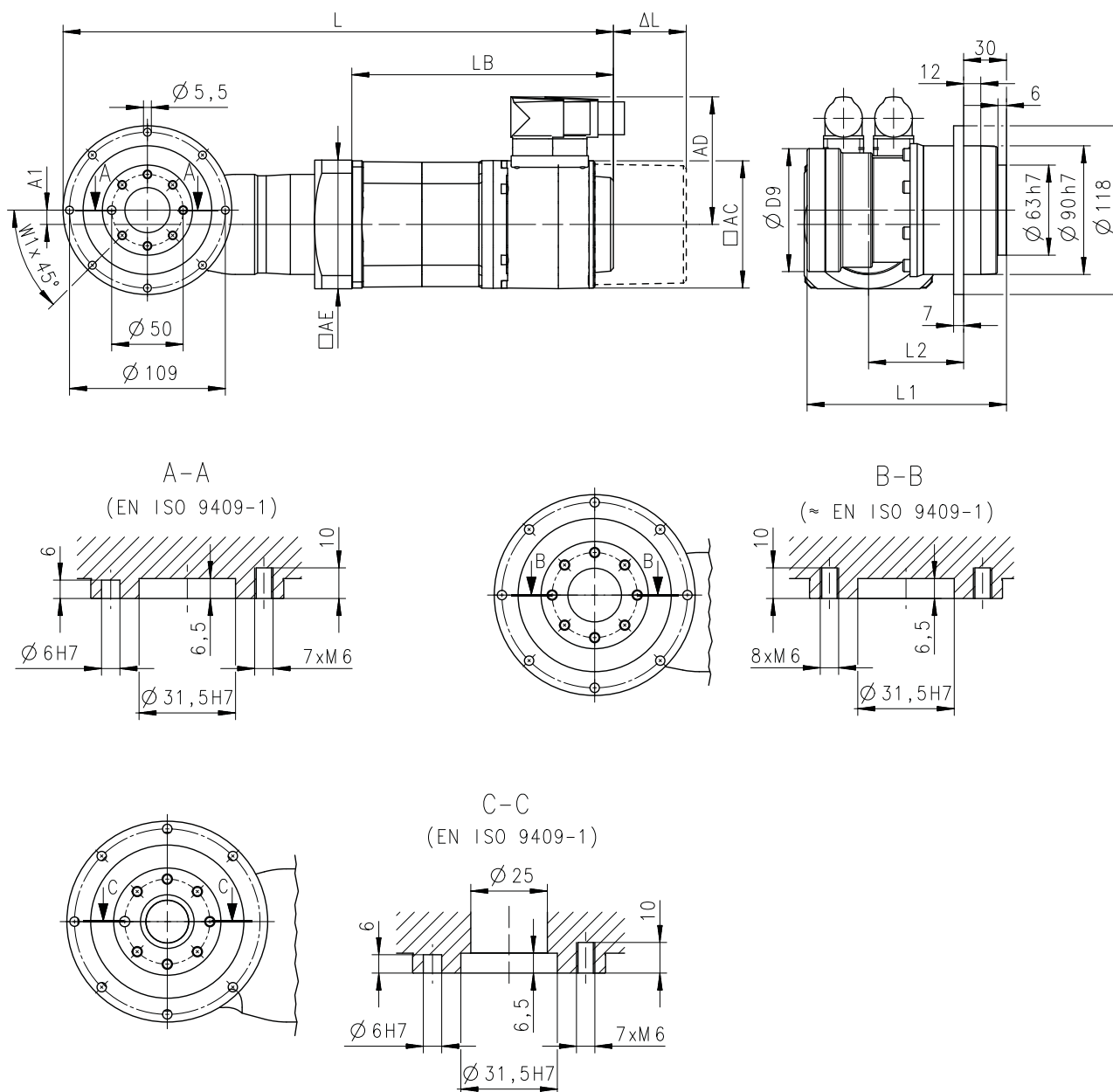
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B130 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage



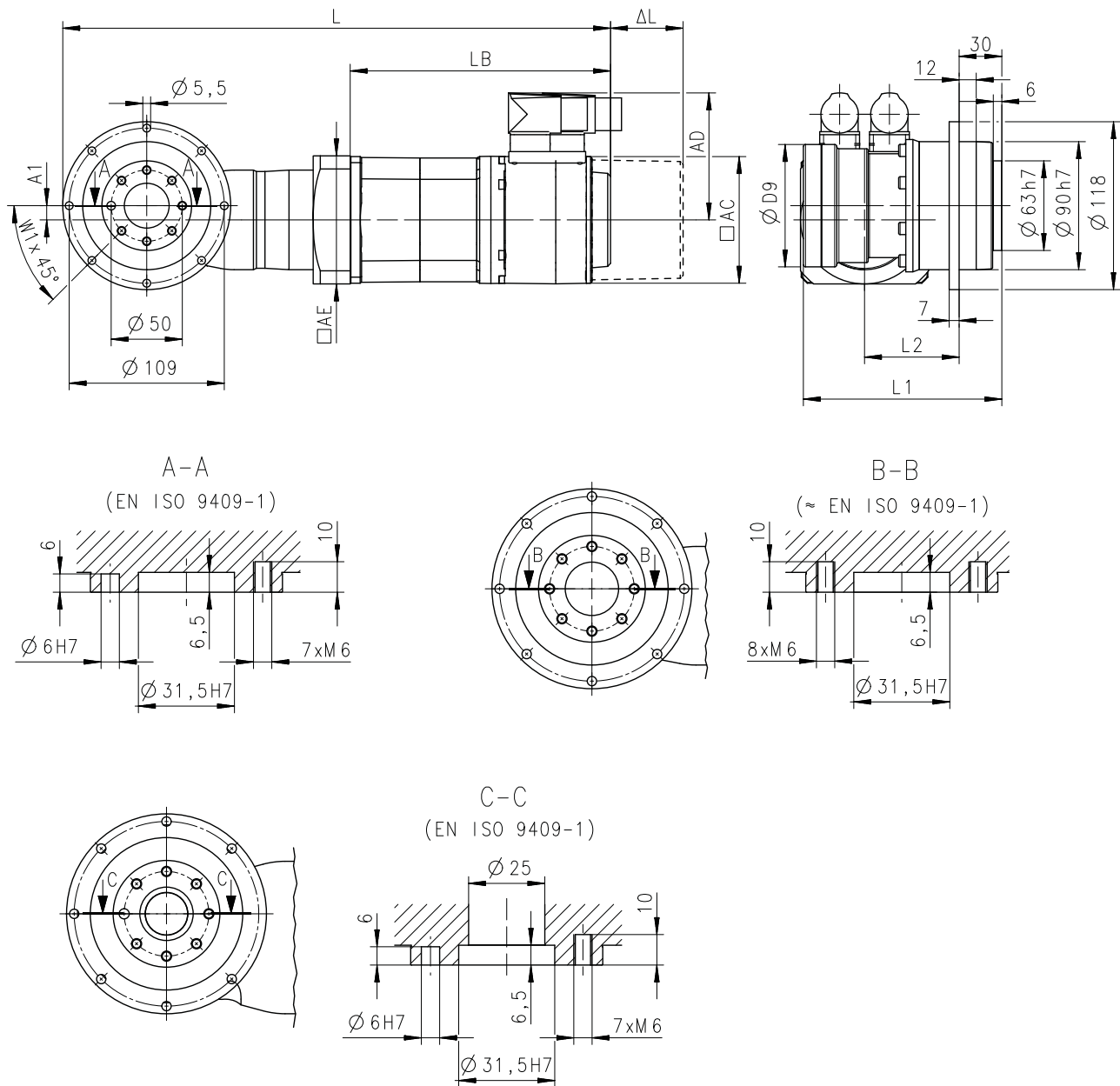
8800846-00

Motor			MCS 09					
			D41- D41L	D60- D60L	F38- F38L	F60- F60L	H41- H41L	H60- H60L
Total length	L	mm	384	384	404	404	424	424
Gearbox length	L1	mm	139.5	139.5	139.5	139.5	139.5	139.5
Motor length	LB	mm	182	182	202	202	222	222
Motor diameter	AC	mm	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90



g880-B130 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800846-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	481	408	481	408	521	448	448	521	448	488	488
Gearbox length	L1	mm	132	132	132	132	132	132	132	132	132	132	132
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

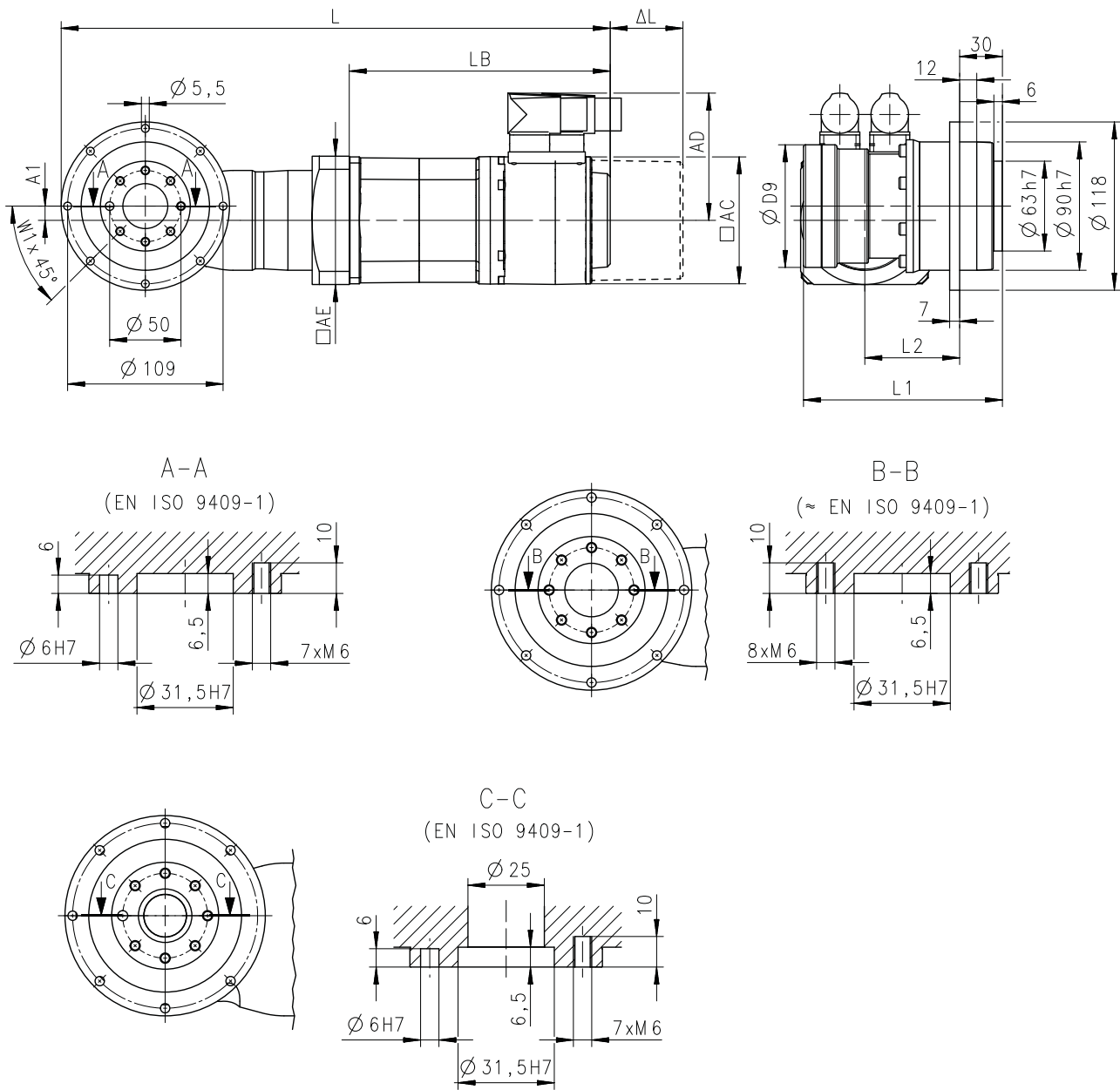
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B130 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage



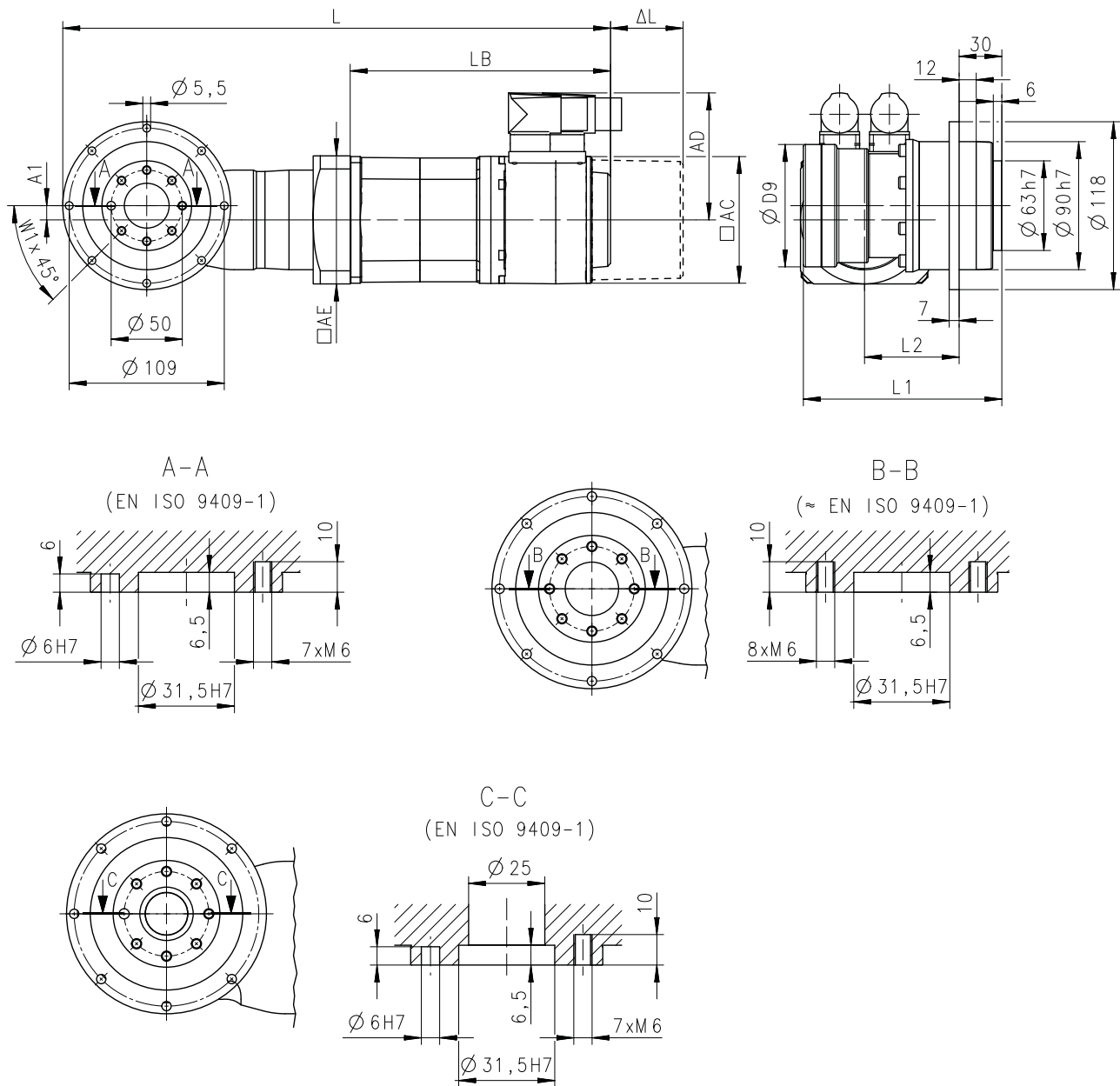
8800846-00

Motor			MCS 12	
			D20- D20L	D41- D41L
Total length	L	mm	403	403
Gearbox length	L1	mm	139.5	139.5
Motor length	LB	mm	188	188
Motor diameter	AC	mm	116	116
Motor/connection distance	AD	mm	105	105
Gearbox diameter	AE	mm	115	115



g880-B130 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800846-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	430.5	430.5
Gearbox length	L1	mm	132	132
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	142	142

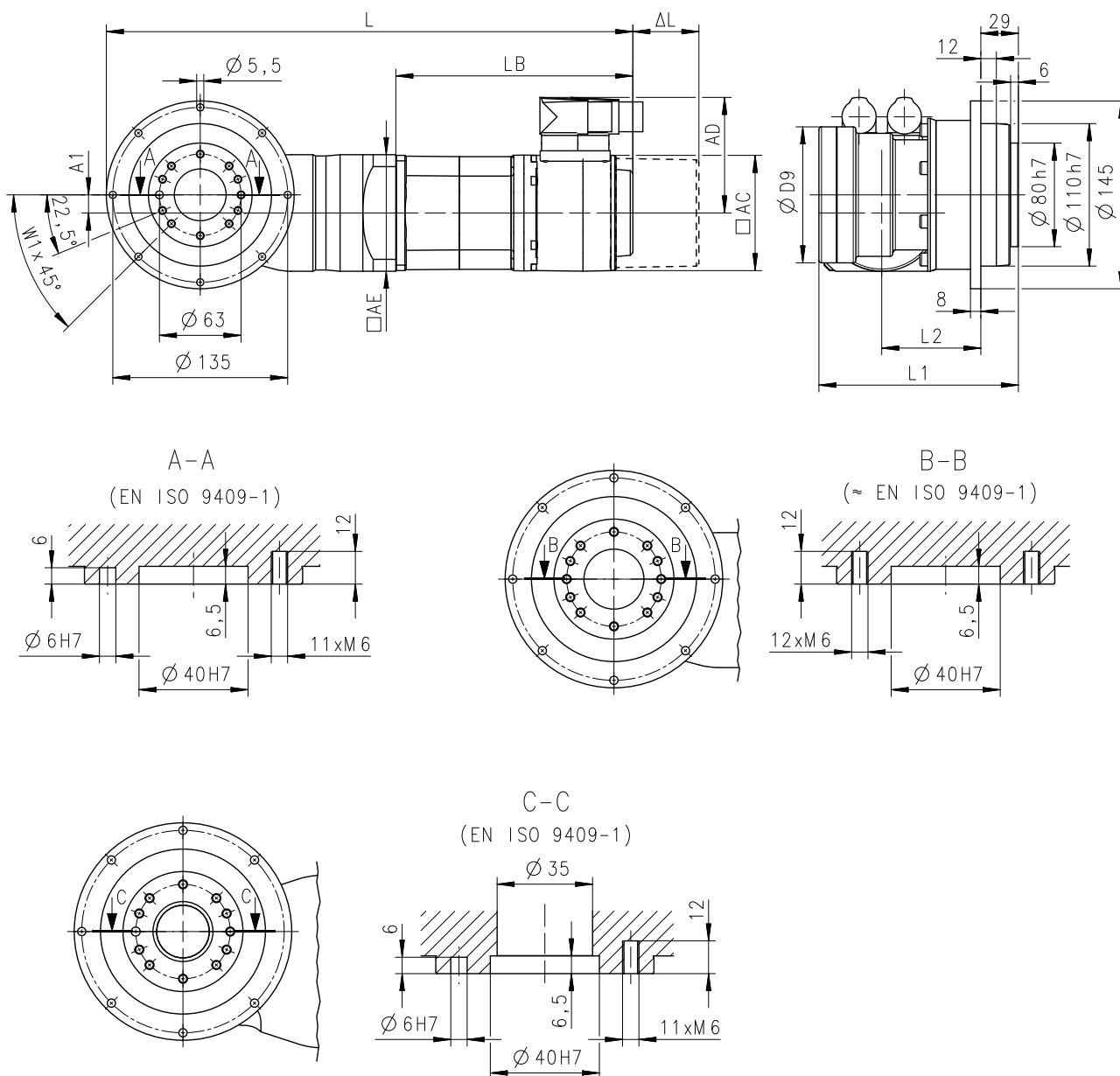
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B310 with MCS06

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800847-00

Motor			MCS 06			
			F41- F41L	F60- F60L	I41- I41L	I60- I60L
Total length	L	mm	385.5	385.5	415.5	415.5
Gearbox length	L1	mm	154	154	154	154
Motor length	LB	mm	162	162	192	192
Motor diameter	AC	mm	86	86	86	86
Motor/connection distance	AD	mm	77	77	77	77
Gearbox diameter	AE	mm	90	90	90	90

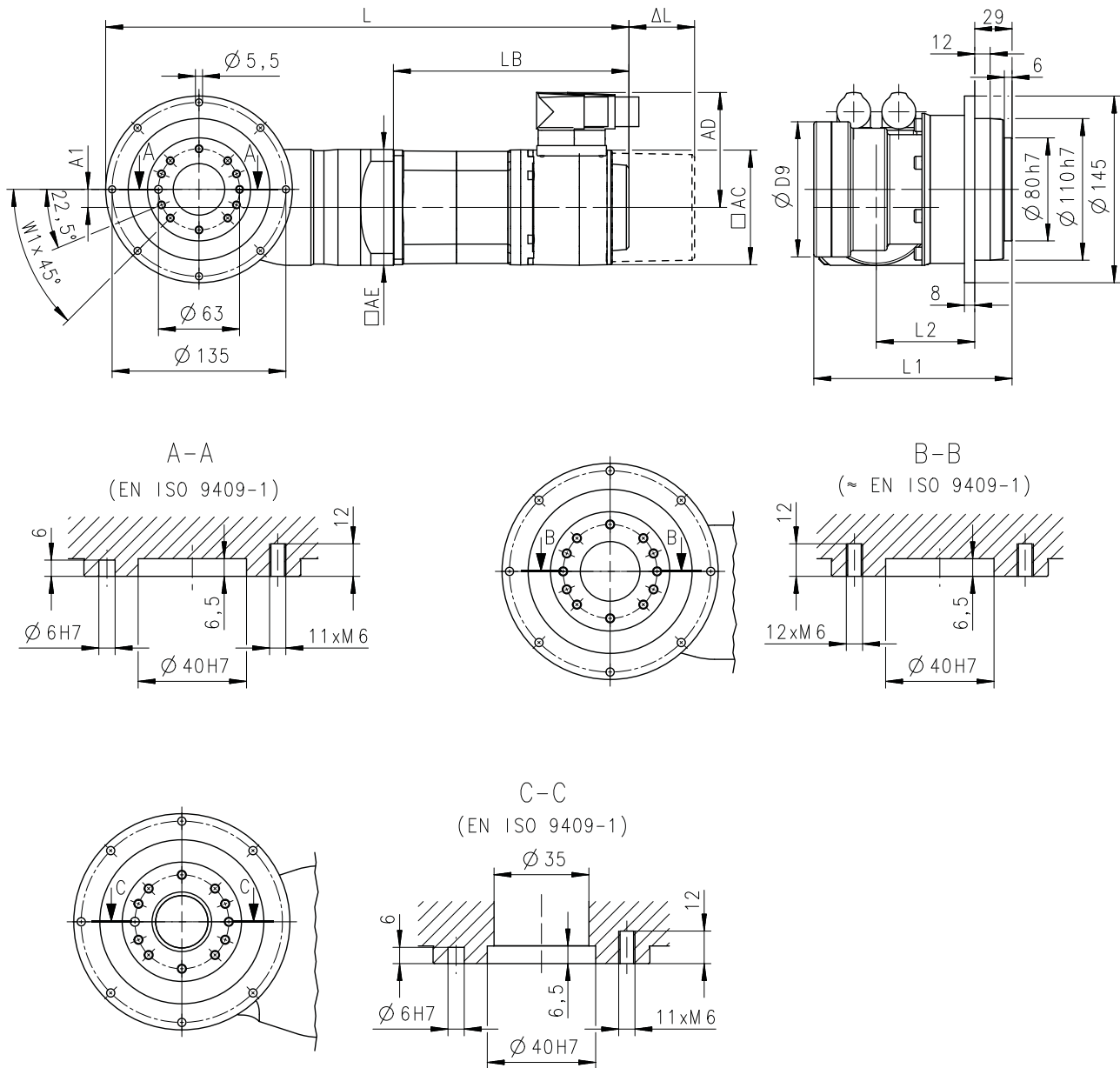


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B310 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800847-00

Motor			MCS 09
			L41- L41L
Total length	L	mm	522
Gearbox length	L1	mm	153.5
Motor length	LB	mm	262
Motor diameter	AC	mm	89
Motor/connection distance	AD	mm	90
Gearbox diameter	AE	mm	115

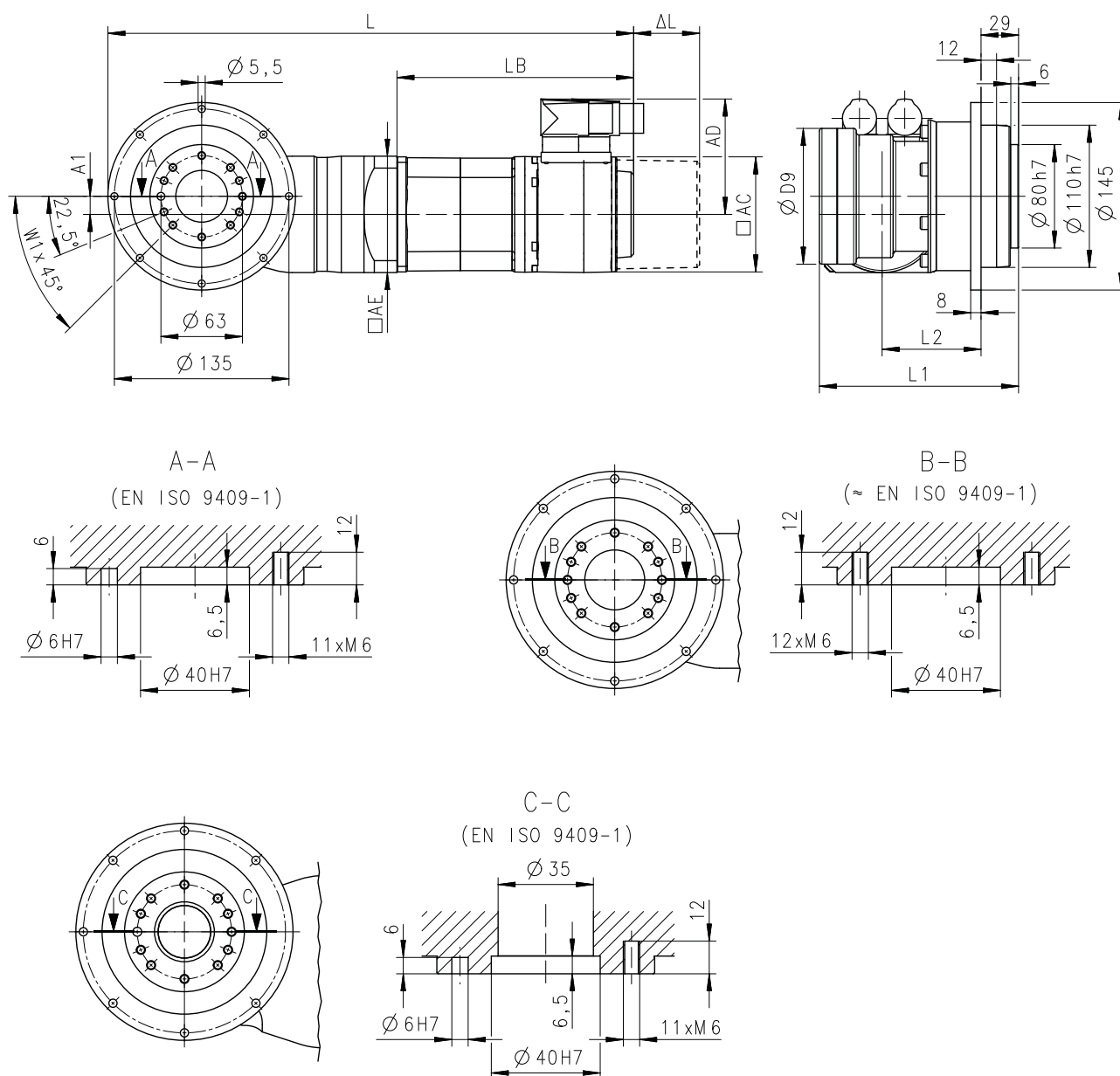
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B310 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800847-00

Motor			MCS 09							
			D41-D41L	D60-D60L	F38-F38L	F60-F60L	H41-H41L	H60-H60L	L41-L41L	L51-L51L
Total length	L	mm	405.5	405.5	425.5	425.5	445.5	445.5	485.5	485.5
Gearbox length	L1	mm	154	154	154	154	154	154	154	154
Motor length	LB	mm	182	182	202	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90	90	90	90
Gearbox diameter	AE	mm	90	90	90	90	90	90	90	90

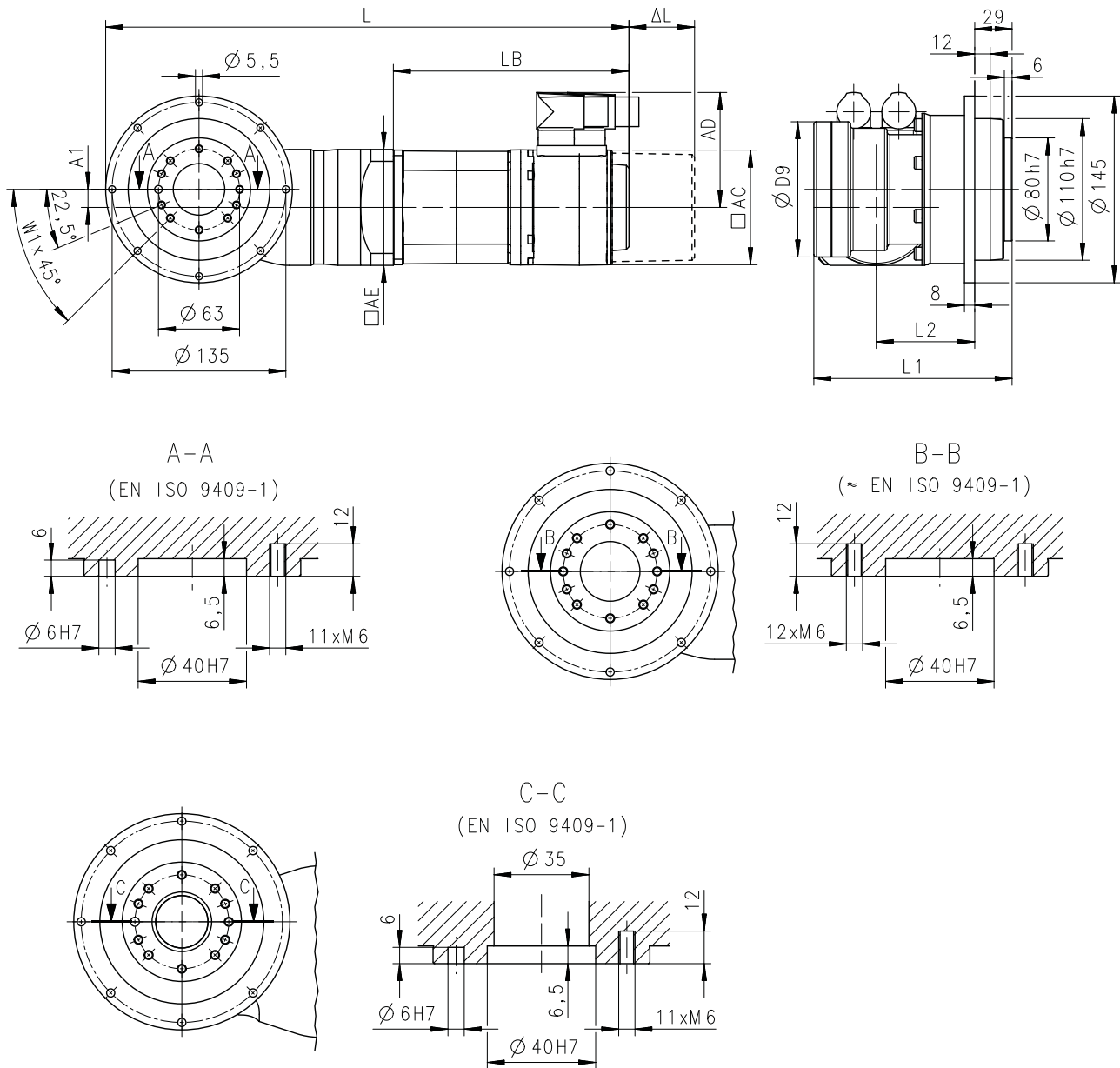


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B310 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800847-00

Motor			MCS 12												
			D17-	D20-	D35-	D41-	H14-	H15-	H30L	H34-	H35-	L17-	L20-	L39-	L41-
Total length	L	mm	521	448	521	448	561	488	488	561	488	611	528	601	528
Gearbox length	L1	mm	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	351	268	341	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	120	120	120	120	120	120	120	120	120	120	120	120	120

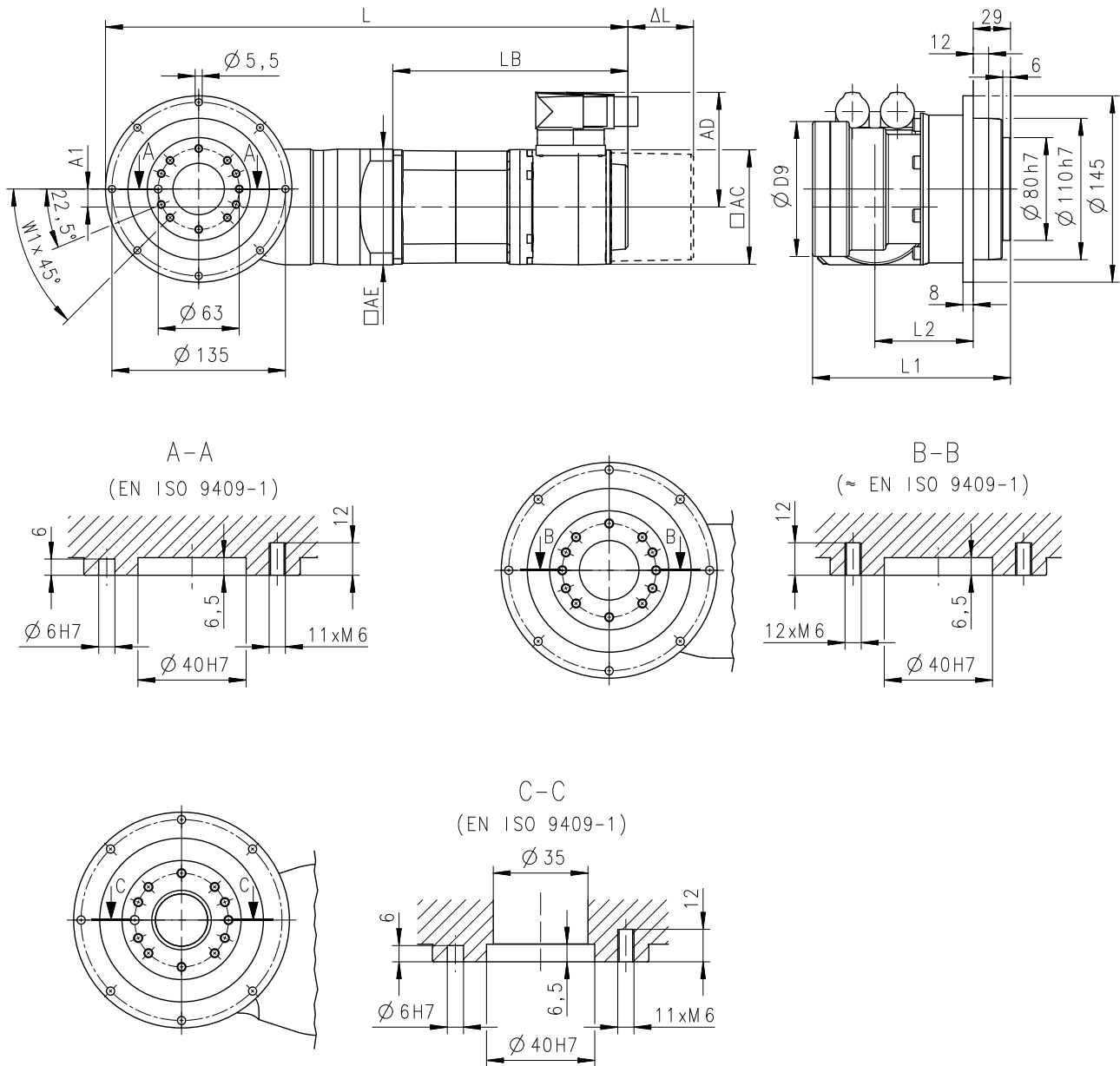
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B310 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800847-00

Motor			MCS 12										
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L20-L20L	L41-
Total length	L	mm	494.5	421.5	494.5	421.5	534.5	461.5	461.5	534.5	461.5	501.5	501.5
Gearbox length	L1	mm	154	154	154	154	154	154	154	154	154	154	154
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	268	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	116	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	115	115	115	115	115	115	115	115	115	115	115

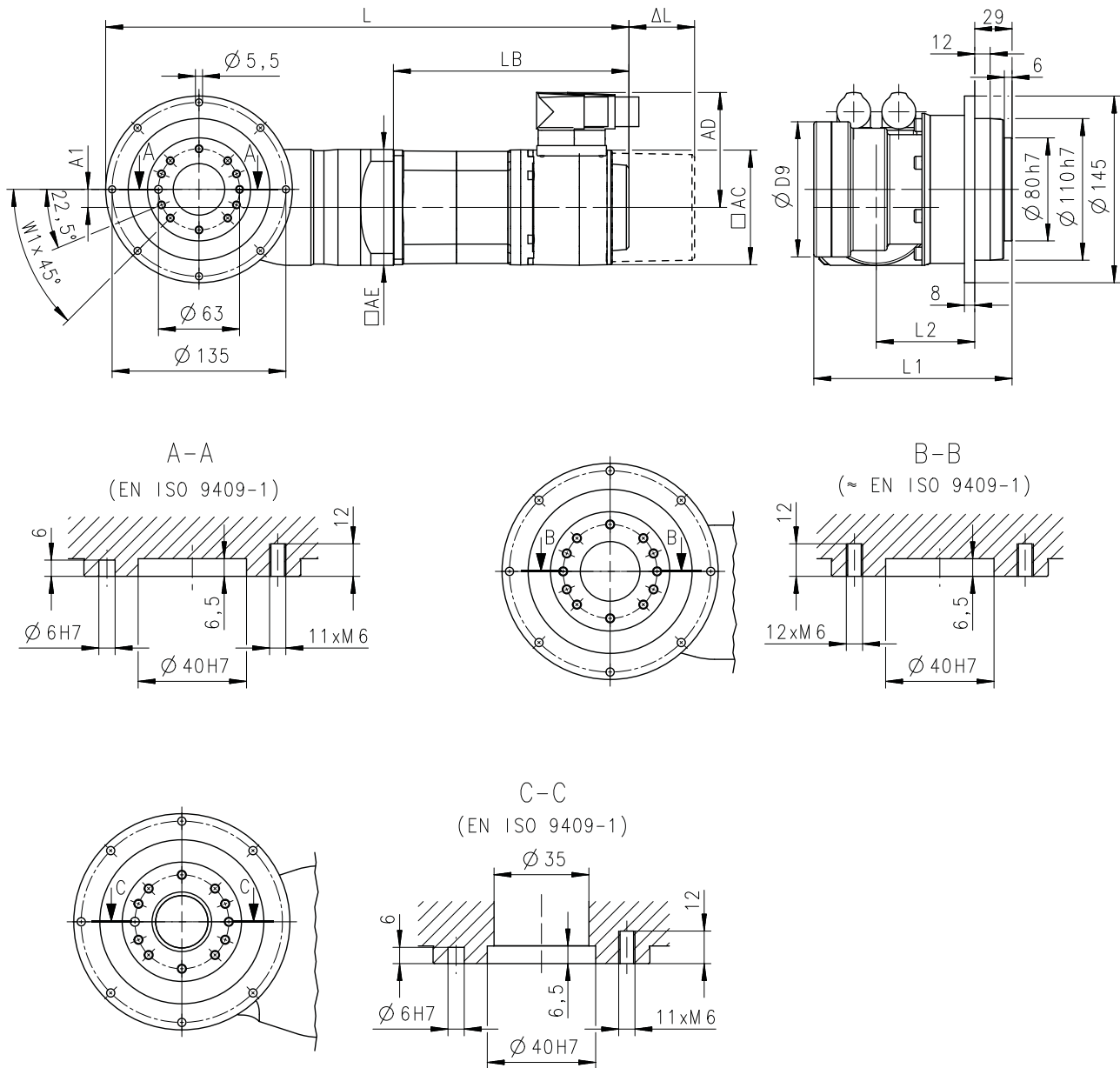


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B310 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800847-00

Motor			MCS 14									
			D14-	D15-	D30-	D36-	H12-	H15-	H28-	H32-	L15-	L32-
Total length	L	mm	532	444	532	444	572	484	572	484	524	524
Gearbox length	L1	mm	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5
Motor length	LB	mm	289	201	289	201	329	241	329	241	281	281
Motor diameter	AC	mm	167	143	167	143	167	143	167	143	143	143
Motor/connection distance	AD	mm	117	117	117	117	117	117	146	117	117	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142

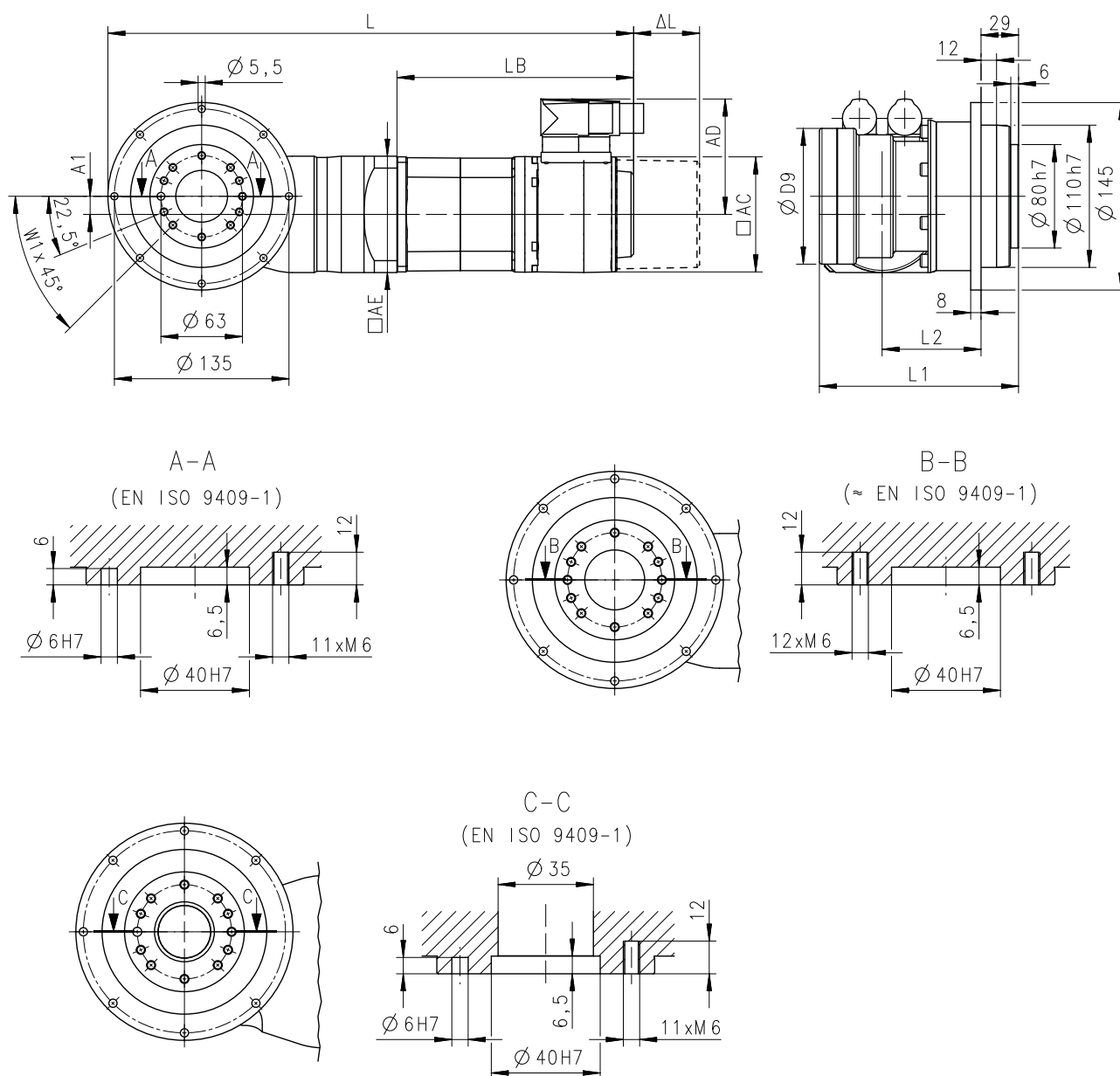
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B310 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800847-00

Motor			MCS 14	
			D15-	D36-
Total length	L	mm	436.5	436.5
Gearbox length	L1	mm	154	154
Motor length	LB	mm	201	201
Motor diameter	AC	mm	143	143
Motor/connection distance	AD	mm	117	117
Gearbox diameter	AE	mm	142	142

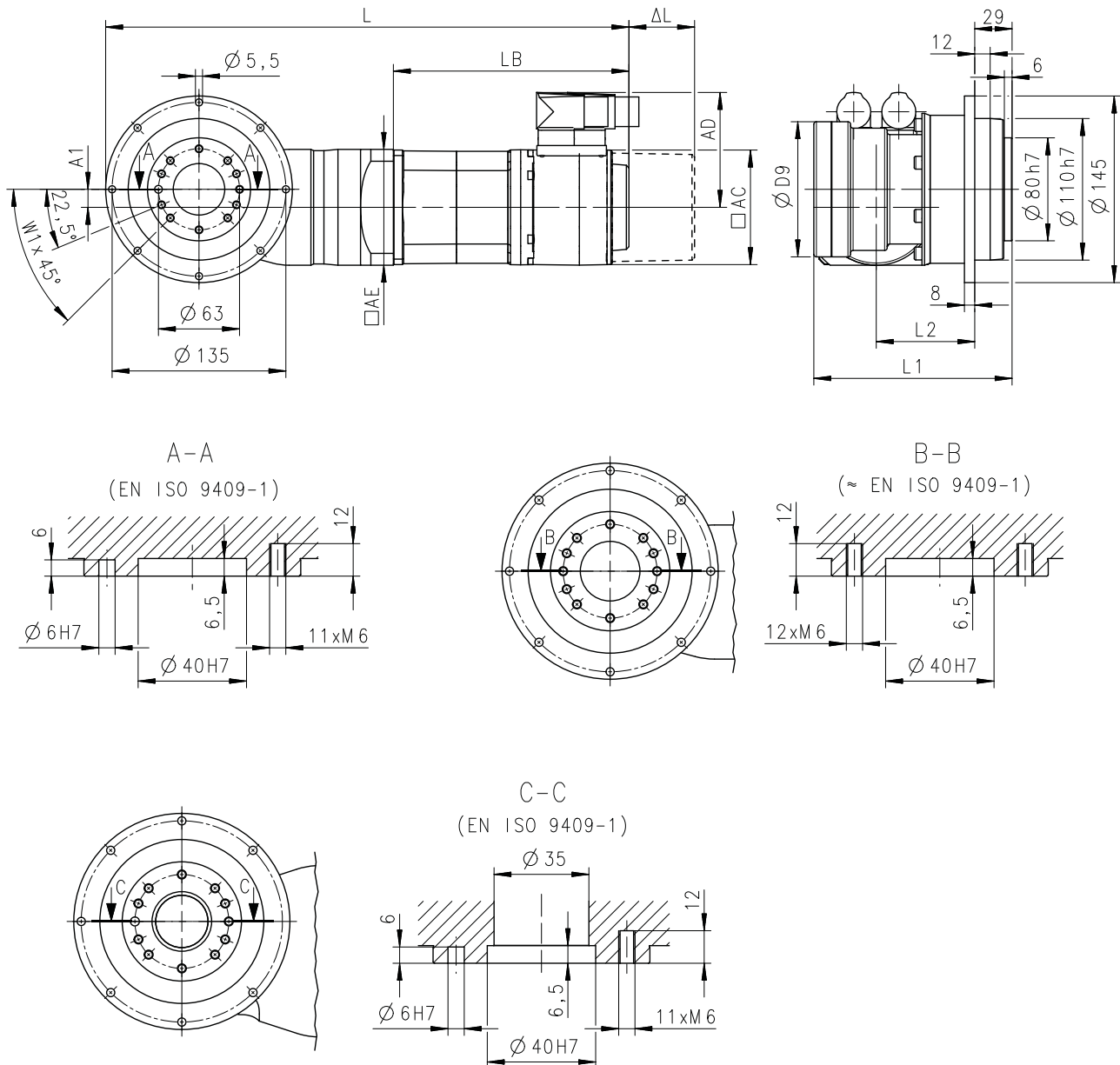


Technical data

Bevel gearbox g880-B
Basic dimensions

g880-B310 with MCS19

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800847-00

Motor			MCS 19	
			F14-	F30-
Total length	L	mm	510	510
Gearbox length	L1	mm	153.5	153.5
Motor length	LB	mm	220	220
Motor diameter	AC	mm	192	192
Motor/connection distance	AD	mm	142	171
Gearbox diameter	AE	mm	190	190

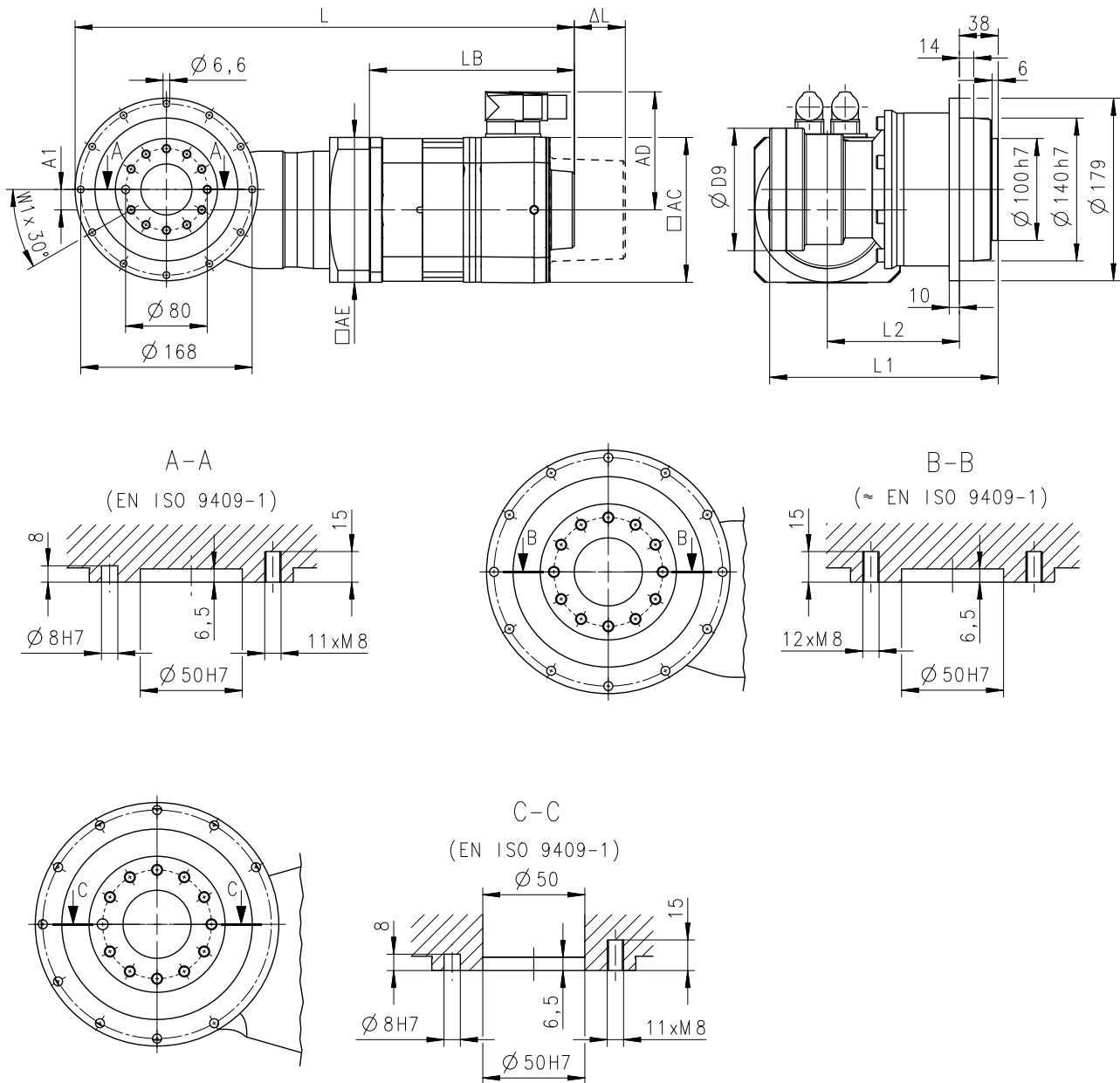
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B625 with MCS09

Gearbox design: Flange output shaft, without foot with centering, 2-stage



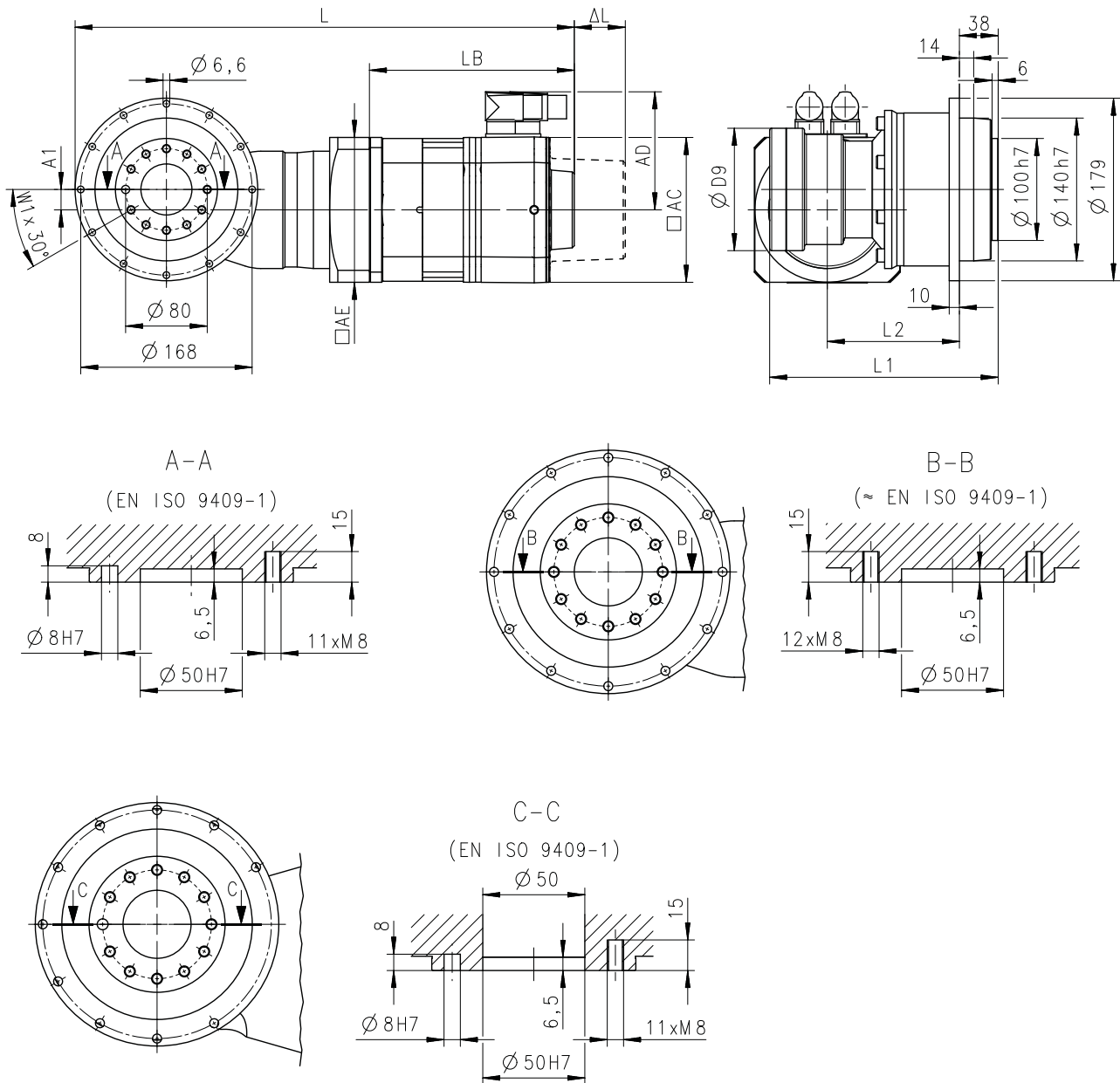
8800848-00

Motor			MCS 09				
			F38-F38L	H41-H41L	H60-H60L	L41-L41L	L51-
Total length	L	mm	479	499	499	539	539
Gearbox length	L1	mm	224	224	224	224	224
Motor length	LB	mm	202	222	222	262	262
Motor diameter	AC	mm	89	89	89	89	89
Motor/connection distance	AD	mm	90	90	90	90	90
Gearbox diameter	AE	mm	115	115	115	115	115



g880-B625 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800848-00

Motor			MCS 12						
			H14-	H15- H15L	H34-	L17-	L20- L20L	L39-	L41-
Total length	L	mm	476	403	476	526	443	516	443
Gearbox length	L1	mm	201.5	201.5	201.5	201.5	201.5	201.5	201.5
Motor length	LB	mm	301	228	301	351	268	341	268
Motor diameter	AC	mm	140	116	140	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	142	142	142	142	142	142	142

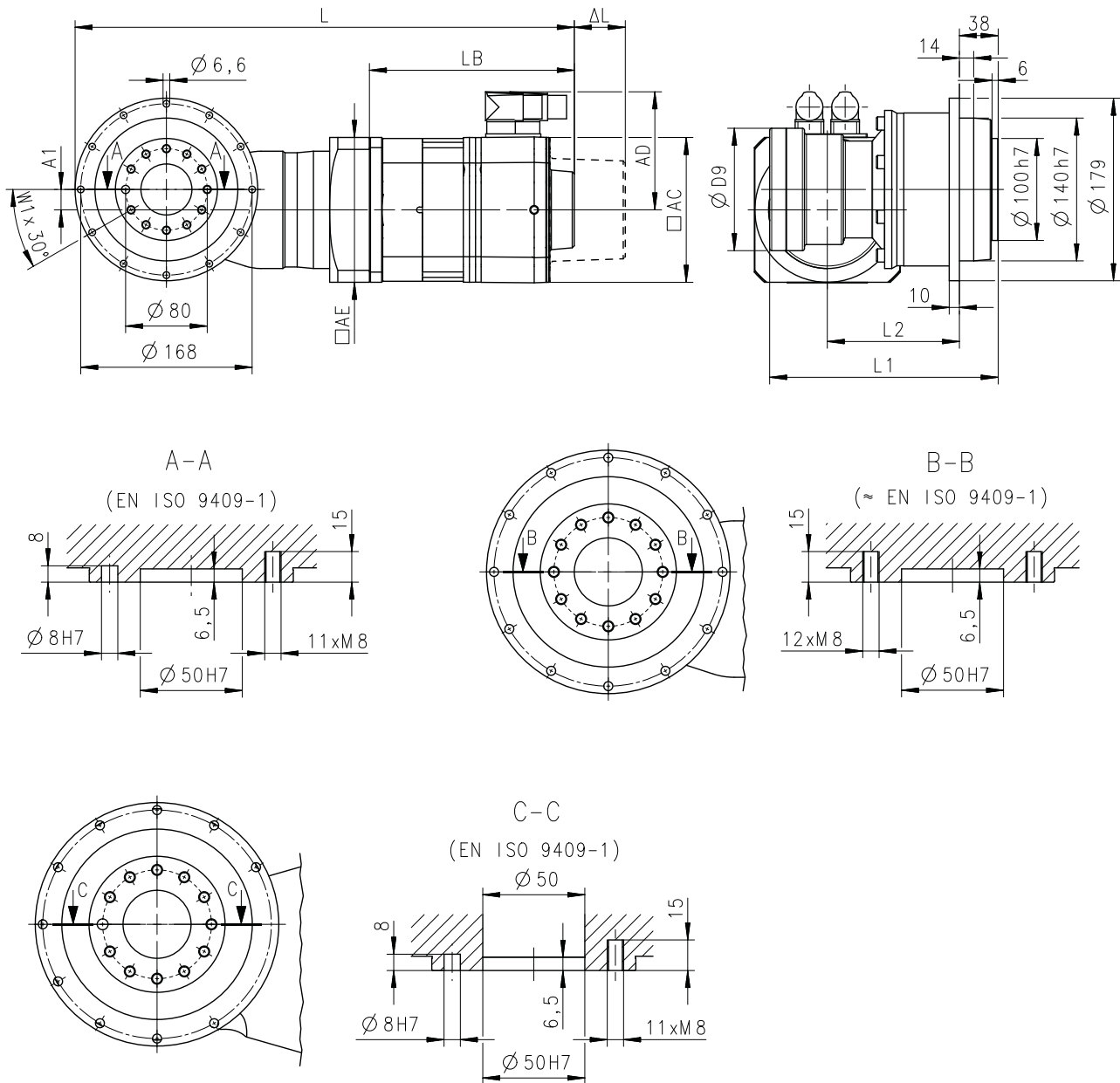
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B625 with MCS12

Gearbox design: Flange output shaft, without foot with centering, 2-stage



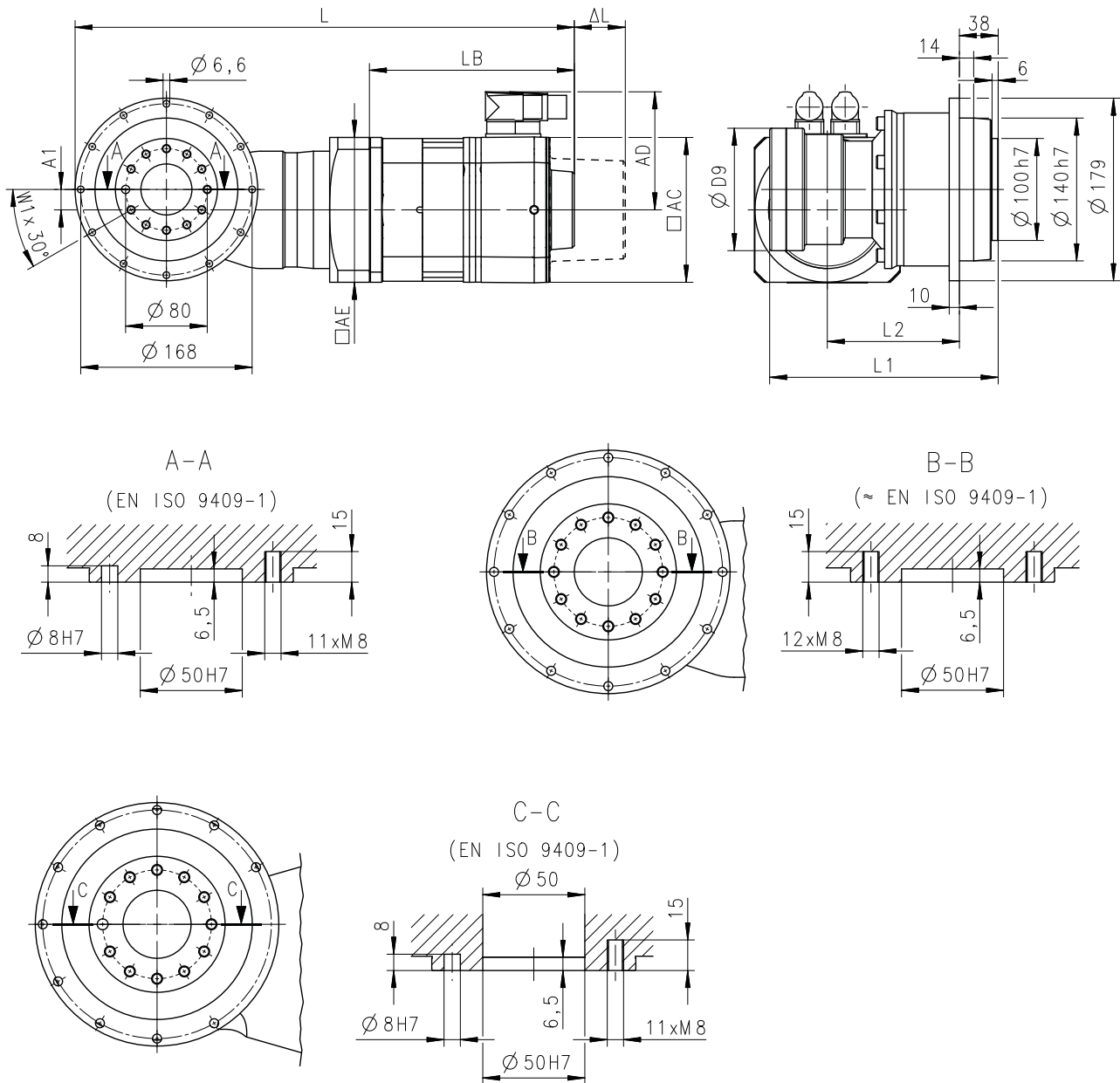
8800848-00

Motor			MCS 12												
			D17-	D20-D20L	D35-	D41-D41L	H14-	H15-H15L	H30L	H34-	H35-	L17-	L20-L20L	L39-	L41-
Total length	L	mm	538	465	538	465	578	505	505	578	505	628	545	618	545
Gearbox length	L1	mm	224	224	224	224	224	224	224	224	224	224	224	224	224
Motor length	LB	mm	261	188	261	188	301	228	228	301	228	351	268	341	268
Motor diameter	AC	mm	140	116	140	116	140	116	116	140	116	140	116	140	116
Motor/connection distance	AD	mm	105	105	105	105	105	105	105	105	105	105	105	105	105
Gearbox diameter	AE	mm	120	120	120	120	120	120	120	120	120	120	120	120	120



g880-B625 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800848-00

Motor			MCS 14													
			D14-	D30-	H12-	H15-	H28-	H32-	L14-	L15-	L30-	L32-	P11-	P14-	P26-	P32-
Total length	L	mm	611.5	611.5	651.5	563.5	651.5	563.5	691.5	603.5	691.5	603.5	731.5	643.5	731.5	643.5
Gearbox length	L1	mm	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
Motor length	LB	mm	289	289	329	241	329	241	369	281	369	281	409	321	409	321
Motor diameter	AC	mm	167	167	167	143	167	143	167	143	167	143	167	143	167	143
Motor/connection distance	AD	mm	117	117	117	117	146	117	117	117	146	146	117	117	146	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142	142	142	142	142

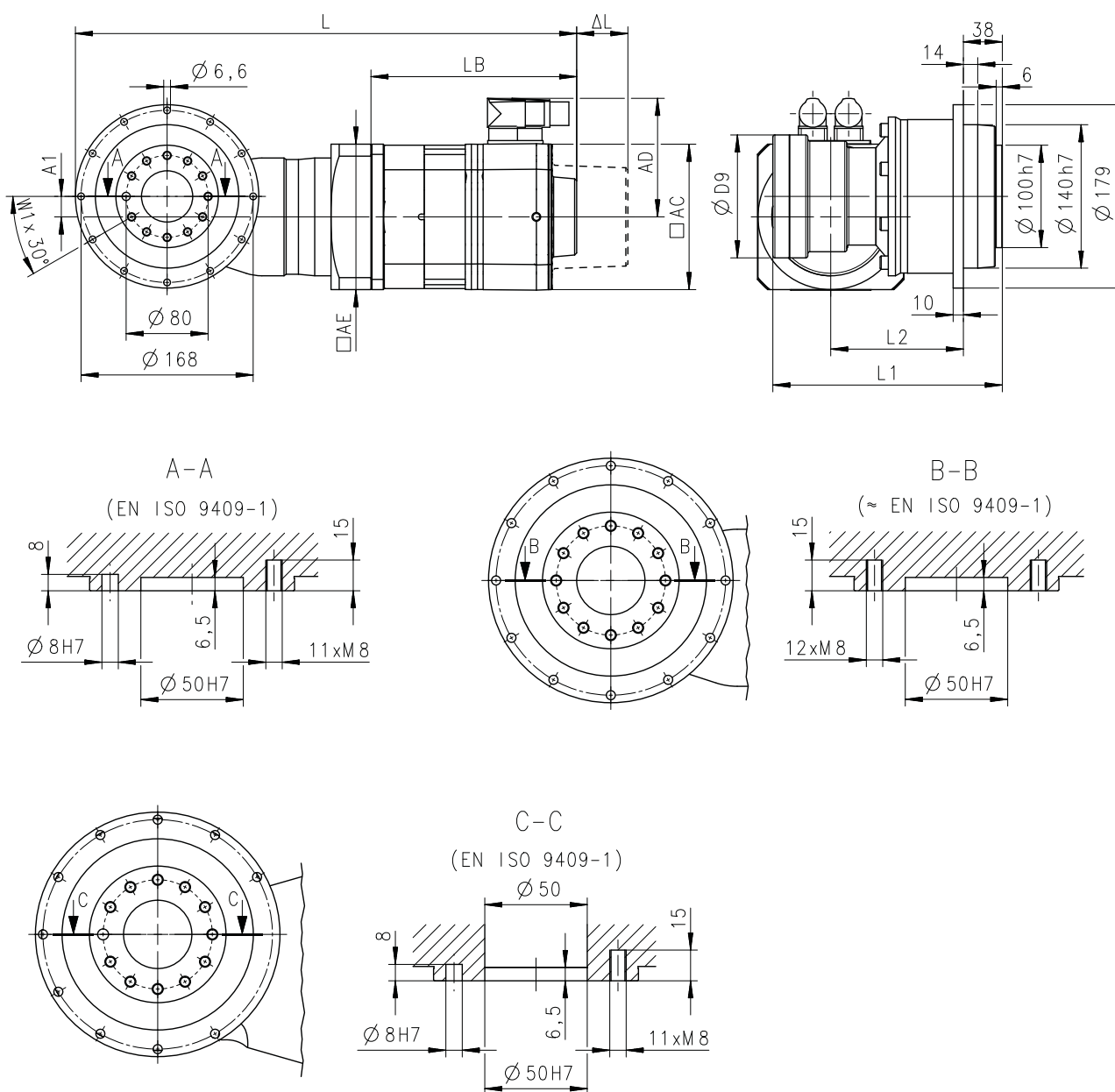
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B625 with MCS14

Gearbox design: Flange output shaft, without foot with centering, 2-stage



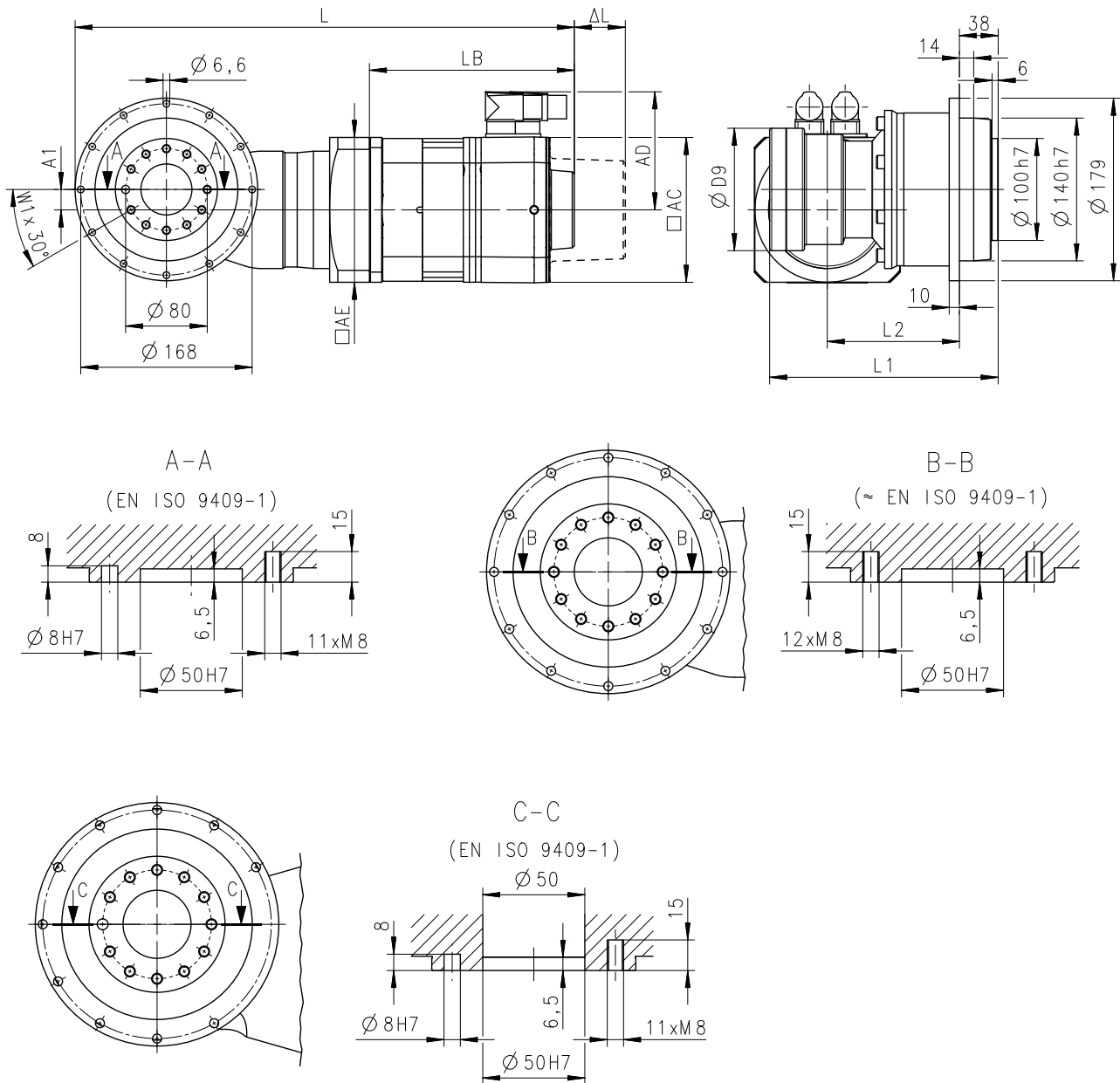
8800848-00

Motor			MCS 14									
			D14-	D15-	D30-	D36-	H12-	H15-	H28-	H32-	L15-	L32-
Total length	L	mm	576	488	576	488	616	528	616	528	568	568
Gearbox length	L1	mm	224	224	224	224	224	224	224	224	224	224
Motor length	LB	mm	289	201	289	201	329	241	329	241	281	281
Motor diameter	AC	mm	167	143	167	143	167	143	167	143	143	143
Motor/connection distance	AD	mm	117	117	117	117	117	117	146	117	117	146
Gearbox diameter	AE	mm	142	142	142	142	142	142	142	142	142	142



g880-B625 with MCS19

Gearbox design: Flange output shaft, without foot with centering, 1-stage



8800848-00

Motor			MCS 19									
			F12-	F14-	F29-	F30-	J12-	J14-	J30-	P12-	P14-	P30-
Total length	L	mm	659.5	552.5	659.5	552.5	699.5	592.5	592.5	759.5	652.5	652.5
Gearbox length	L1	mm	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
Motor length	LB	mm	327	220	327	220	367	260	260	427	320	320
Motor diameter	AC	mm	212	192	212	192	212	192	192	212	192	192
Motor/connection distance	AD	mm	142	142	171	171	171	142	171	171	171	171
Gearbox diameter	AE	mm	190	190	190	190	190	190	190	190	190	190

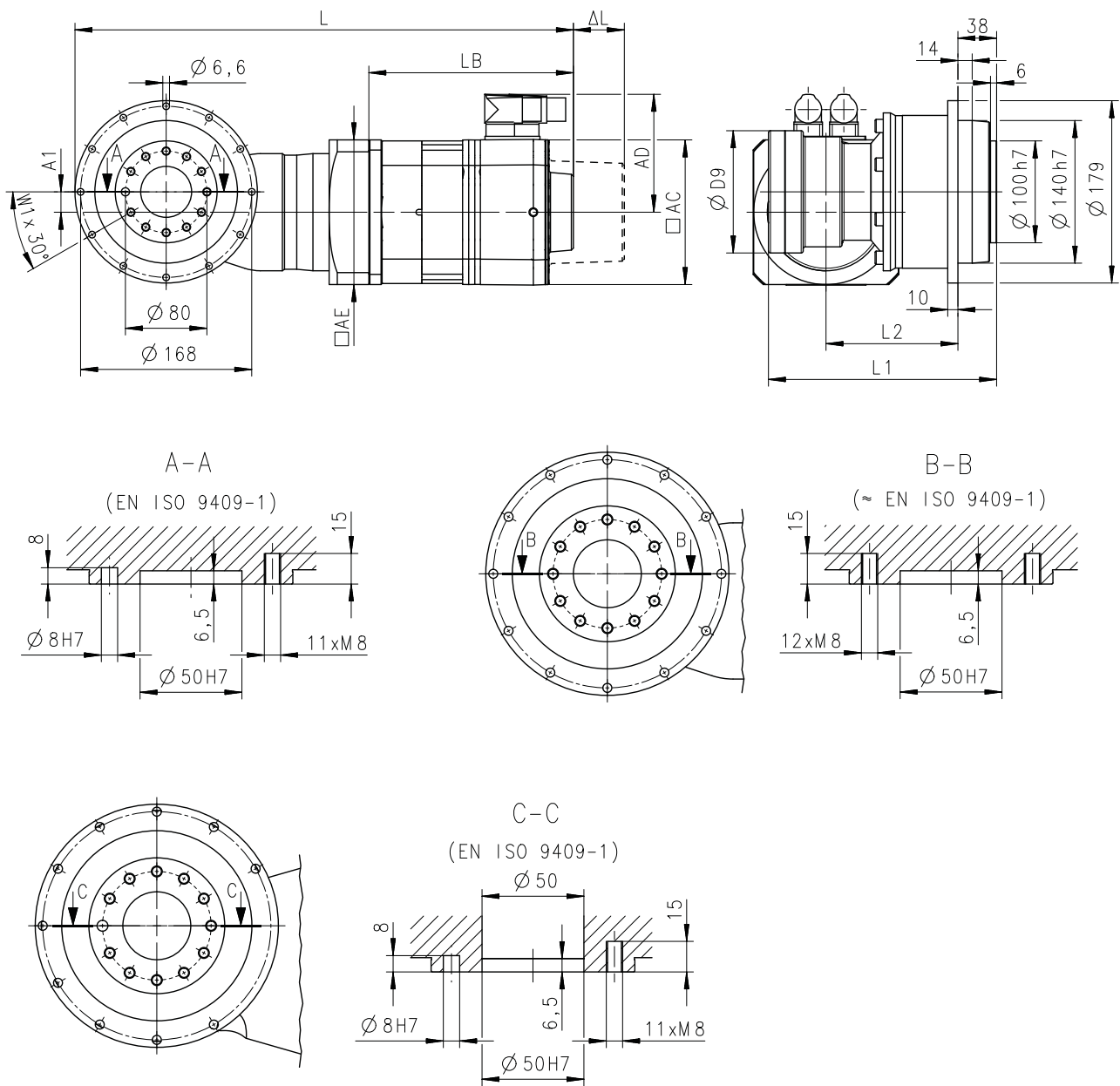
Technical data

Bevel gearbox g880-B
Basic dimensions



g880-B625 with MCS19

Gearbox design: Flange output shaft, without foot with centering, 2-stage



8800848-00

Motor			MCS 19	
			F14-	F30-
Total length	L	mm	527	527
Gearbox length	L1	mm	224	224
Motor length	LB	mm	220	220
Motor diameter	AC	mm	192	192
Motor/connection distance	AD	mm	142	171
Gearbox diameter	AE	mm	190	190



Additional lengths



The motor code indicates the short designation of the brake and feedback. Detailed information can be found for

► [Product codes](#) 403

► [Brakes](#) 390

► [Feedback](#) 395

MCS06

Motor			MCS		
			06C41- 06C41L 06C60- 06C60L	06F41- 06F41L 06F60- 06F60L	06I41- 06I41L 06I60- 06I60L
Cooling type			natural	natural	natural
Feedback (without brake B0)					
R□0	Δ L	mm	0		
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	82		
S□M (AM128...) / EKM / EVM	Δ L	mm	35		
Brake (P1/P2) and feedback					
R□0	Δ L	mm	19		
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	101		
S□M (AM128...) / EKM / EVM	Δ L	mm	54		

MCS09

Motor			MCS			
			09D41- 09D41L 09D60- 09D60L	09F38- 09F38L 09F60- 09F60L	09H41- 09H41L 09H60- 09H60L	09L41- 09L41L 09L60-
Cooling type			natural	natural	natural	natural
Feedback (without brake B0)						
R□0	Δ L	mm	0			
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	51			
S□M (AM128...) / EKM / EVM	Δ L	mm	20			
Brake (P1/P2) and feedback						
R□0	Δ L	mm	20			
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	71			
S□M (AM128...) / EKM / EVM	Δ L	mm	40			



MCS12

Motor			MCS									
			12D17-	12D20- 12D20L	12D35-	12D41- 12D41L	12H14-	12H15- 12H15L 12H30L	12H34-	12H35-	12L17- 12L39-	12L20- 12L20L 12L41- 12L41L
Cooling type			Blower	natural	Blower	natural	Blower	natural	Blower	natural	Blower	natural
Feedback (without brake B0)												
R□0	Δ L	mm	0	0	0	0	0	0	0	0	0	0
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	43	49	43	49	43	49	43	49	43	49
S□M (AM128...) / EKM / EVM	Δ L	mm		20		20		20		20		20
Brake (P1/P2) and feedback												
R□0	Δ L	mm	20	20	20	20	20	20	20	20	20	20
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	63	69	63	69	63	69	63	69	63	69
S□M (AM128...) / EKM / EVM	Δ L	mm		40		40		40		40		40

MCS14

Motor			MCS							
			14D14-	14D15-	14D30-	14D36-	14H12-	14H15-	14H28-	14H32-
Cooling type			Blower	natural	Blower	natural	Blower	natural	Blower	natural
Feedback (without brake B0)										
R□0	Δ L	mm	0	0	0	0	0	0	0	0
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	53	50	53	50	53	50	53	50
S□M (AM128...) / EKM / EVM	Δ L	mm		18		18		18		18
Brake (P1/P2) and feedback										
R□0	Δ L	mm	29	28	29	28	29	28	29	28
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	82	78	82	78	82	78	82	78
S□M (AM128...) / EKM / EVM	Δ L	mm		46		46		46		46

Motor			MCS							
			14L14-	14L15-	14L30-	14L32-	14P11-	14P14-	14P26-	14P32-
Cooling type			Blower	natural	Blower	natural	Blower	natural	Blower	natural
Feedback (without brake B0)										
R□0	Δ L	mm	0	0	0	0	0	0	0	0
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	53	50	53	50	53	50	53	50
S□M (AM128...) / EKM / EVM	Δ L	mm		18		18		18		18
Brake (P1/P2) and feedback										
R□0	Δ L	mm	29	28	29	28	29	28	29	28
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	82	78	82	78	82	78	82	78
S□M (AM128...) / EKM / EVM	Δ L	mm		46		46		46		46



MCS19

Motor			MCS									
			19F12-	19F14-	19F29-	19F30-	19J14-	19J29-	19J30-	19P14-	19P29-	19P30-
Cooling type			Forced	Natural	Forced	Natural	Natural	Forced	Natural	Natural	Forced	Natural
Feedback (without brake B0)												
R□0	Δ L	mm	0	0	0	0	0	0	0	0	0	0
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	72	49	72	49	49	72	49	49	72	49
S□M (AM128...) / EKM / EVM	Δ L	mm		19		19	19		19	19		19
Brake (P1/P2) and feedback												
R□0	Δ L	mm	34	34	34	34	34	34	34	34	34	34
S□M (AM1024...) / SRS / SVS / ECN / EQI / EQN	Δ L	mm	72	83	72	83	83	72	83	83	72	83
S□M (AM128...) / EKM / EVM	Δ L	mm		53		53	53		53	53		53



Additional weights

Motors

Motor			MCS06C MCS06F MCS06I	MCS09D MCS09F MCS09H MCS09L	MCS12D MCS12H MCS12L	MCS14D MCS14H MCS14L MCS14P	MCS19F	MCS19J MCS19P
Permanent magnet holding brake								
Standard braking torque	m	kg	0.3	0.8	0.9	1.9	3.1	
Increased braking torque	m	kg		0.8	1.2	3.1		4.3



Product extensions

Motor connection

Connection via terminal box

If a motor is to be connected to an existing cable or plug connectors are not to be used for other reasons, the connection can also be made via a terminal box.

The terminals are designed as tension spring terminals to ensure here the long-term vibration resistance of the cable contacts with adequate contact pressure required.

The terminal boxes have generously dimensioned space for the customer's own wiring and large surface shield connection areas to ensure a secure EMC-compliant connection. The cable outlet may be to the left or to the right, depending on requirements.



It is not possible to attach a terminal box to the MCS06 or to models with the blower.



Product extensions

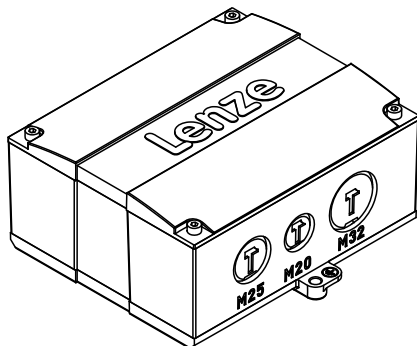
Motor connection
Connection via terminal box



Cable glands

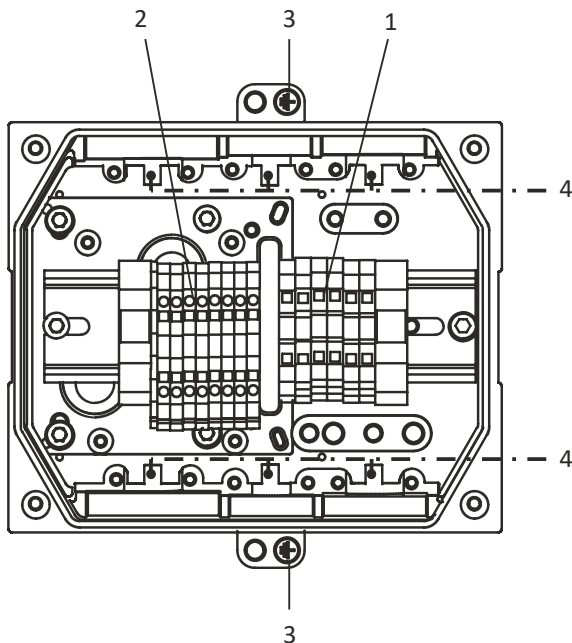


The bore holes for the cable glands M25, M20 and M32 are located on both sides and closed. They can be opened according to need.



Motor		MCS09 MCS12 MCS14H	MCS14L15 MCS14P14 MCS19F15 MCS19J15	MCS14L32 MCS14P32 MCS19F13 MCS19J30 MCS19P
Screwed connections		2x M20 2x M25 2x M32		
cable cross-section	mm ²	0.08 ... 2.5 4 (without wire end ferrule)		0.2 ... 10
Stripping length	mm	10 ... 11		
Terminal design		Spring-loaded terminal		

Position of the connections



Position	Meaning
1	Power connection Brake connection
2	Feedback connection Connection of temperature monitoring
3	PE connection
4	Large area shield contact.



Product extensions

Motor connection
Connection via terminal box

Terminal box, power		
Contact	Name	Meaning
U1	L1	Motor winding phase
V1	L2	
W1	L3	
PE	PE	PE conductor

Terminal box, DC brake		
Contact	Name	Meaning
BD1	+	Brake +
BD2	-	Brake -

Terminal box, resolver		
Contact	Name	Meaning
B1	+Ref	Transformer windings (reference windings)
B2	-Ref	
B3	+VCC ETS	Supply: Electronic nameplate (only for variant with electronic nameplate ETS)
B4	+COS	Cosine stator windings
B5	-COS	
B6	+SIN	Sine stator windings
B7	-SIN	
B8		Not assigned

Terminal box, SinCos absolute value encoder with Hiperface		
Contact	Name	Meaning
B1	+ UB	Supply +
B2	GND	Mass
B3	A	Track A / + COS
B4	A ⁻	Track A inverse /-COS
B5	B	Track B / +SIN
B6	B ⁻	Track B inverse/-SIN
B7	Z	Zero track / + RS485
B8	Z ⁻	Zero track inverse /-RS485
B10		Incremental encoder shield

Terminal box, SinCos absolute value encoder with EnDat		
Contact	Name	Meaning
B1	+ UB	Supply +
B2	GND	Mass
B3	A	Track A / + COS
B4	A ⁻	Track A inverse /-COS
B5	B	Track B / +SIN
B6	B ⁻	Track B inverse/-SIN
B7	Daten	EnDat interface data
B8	Daten ⁻	Data inverse EnDat interface
B20	Takt	EnDat interface cycle
B21	Takt ⁻	Inverse EnDat interface cycle
B22	Up Sensor	Up Sensor
B23	0 V Sensor	0 V sensor
B24	Schirm	Encoder housing shield
B25		Not assigned

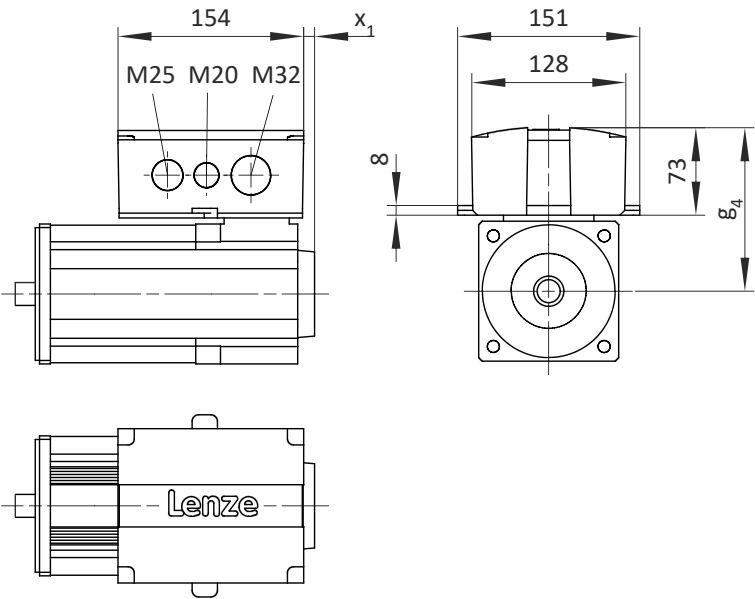
Terminal box with temperature monitoring R		
Contact	Name	Meaning
R1	+	Temperature sensor +
R2	-	Temperature sensor -

Product extensions

Motor connection
Connection via terminal box



Terminal box dimensions



Motor			MCS09D MCS09F MCS09H MCS09L	MCS12D MCS12H MCS12L	MCS14D MCS14H MCS14L MCS14P	MCS19F MCS19J MCS19P
Motor/connection distance	g ₄	mm	121	136	147	172
Feedback						
Resolver/TTL incremental encoder	x ₁	mm	5	9	21	12
SinCos absolute value encoder	x ₁	mm	56	58	71	61



Connection via connector

The electrical connection to the servo motors is made via M23 or M40 plug connectors as standard.

The connection is made via two connectors:

- For power and brake
- For feedback and temperature monitoring

Alternatively, Lenze offers a One Cable Technology (OCT).

The connectors can be rotated by 270 ° and are provided with a bayonet catch. Since the catch of the connector is also compatible with conventional box nuts, existing mating connectors with a screw plug can continue to be used without any problems.



Preassembled Lenze system cables are available for fast and error-free connection of Lenze motors to Lenze inverters.

Details and data can be found in the "Accessories" brochure on the Internet.

Product extensions

Motor connection
Connection via connector

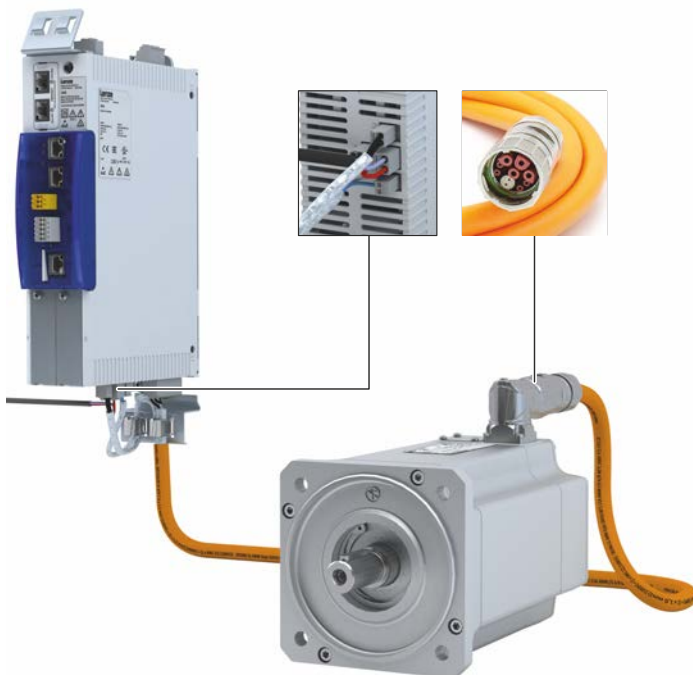


One Cable Technology (OCT)

With the help of digital absolute value encoders and the HIPERFACE DSL® open motor feedback protocol, the motor supports the use of future-oriented One Cable Technology (OCT).

Advantages

- All the wiring required is carried out in just one connector.
- The use of system cables merges the servo and feedback cables.
- Connection cables, cable variance, and connection costs are thus reasonably minimized.
- The motor temperature is transmitted digitally together with the encoder signal. An additional connection for a motor temperature sensor is not required.
- Speed-dependent safety functions can be realized by using the safety-rated digital absolute value encoder.



The M23 connector for One Cable Technology (OCT) has been changed; the change can be recognized by the color of the connector:

- Old connector: Blue
- New connector: Red

Only motor/system cable connectors of the same color can be plugged in.

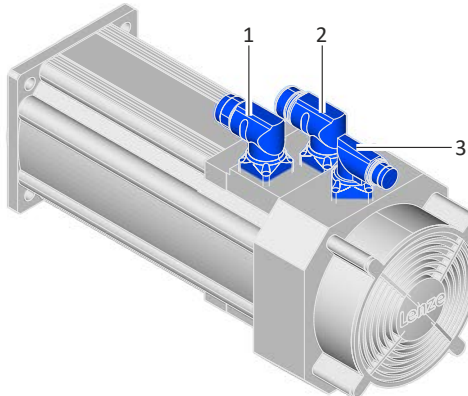


Product extensions

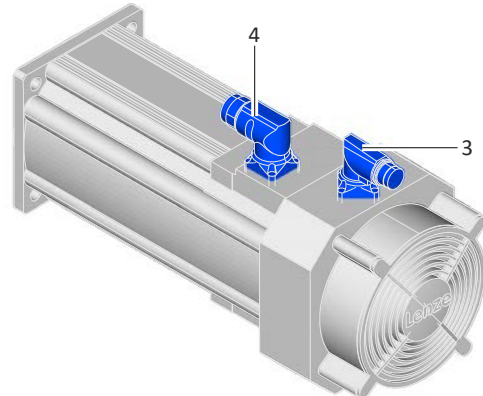
Motor connection
Connection via connector

Position of the connections

Standard connection



One Cable Technology (OCT)



Position	Meaning	Position	Meaning
1	M23 connector, 6-pole M40 connector, 8-pole - Power connection - Brake connection - PE connection	4	For One Cable Technology (OCT) M23 connector, hybrid M40 connector, hybrid - Power connection - Brake connection - PE connection - Digital absolute value encoder connection - Temperature monitoring connection
2	M23 connector - Feedback connection - Temperature monitoring connection		
3	M17 connector Blower connection		

Motor/connector assignment

Standard connection: Power and brake

One Cable Technology (OCT): Power, brake, feedback and temperature monitoring connection

Motor	Connector	Motor	Connector	Motor	Connector	Motor	Connector
MCS06...	M23	MCS14H15-	M23	MCS14P14-	M23	MCS19J14-	M23
MCS09...	M23	MCS14H28-	M40	MCS14P26-	M40	MCS19J29-	M40
MCS12...	M23	MCS14H32-	M23	MCS14P32-	M40	MCS19J30-	M40
MCS14D14-	M23	MCS14L14-	M23	MCS19F12-	M23	MCS19P12-	M40
MCS14D15-	M23	MCS14L15-	M23	MCS19F14-	M23	MCS19P14-	M40
MCS14D30-	M23	MCS14L30-	M40	MCS19F29-	M40	MCS19P29-	M40
MCS14D36-	M23	MCS14L32-	M40	MCS19F30-	M40	MCS19P30-	M40
MCS14H12-	M23	MCS14P11-	M23	MCS19J12-	M40		

Product extensions

Motor connection
Connection via connector

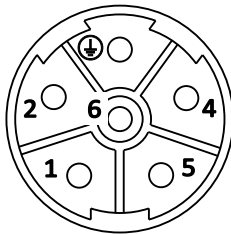


Standard connection

Connection of power and brake

ICN-M23 connector assignment

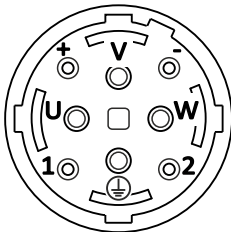
6-pole



M23 6-pole		
Contact	Name	Meaning
PE	PE	PE conductor
1	BD1	DC +/AC brake
2	BD2	DC -/AC brake
4	U	Power phase U
5	V	Power phase V
6	W	Power phase W

M40 connector assignment for motor cables

8-pole



M40 8-pole		
Contact	Name	Meaning
V	V	Power phase V
PE	PE	PE conductor
W	W	Power phase W
-	BD2	Holding brake -
U	U	Power phase U
+	BD1	Holding brake +
1		Not assigned
2		Not assigned



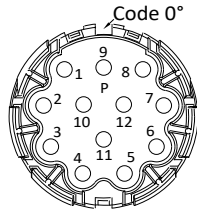
Product extensions

Motor connection
Connection via connector

Feedback and temperature monitoring connection

ICN-M23 connector assignment

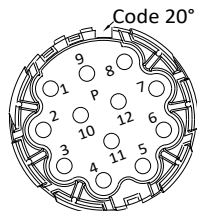
Resolver



M23 for resolvers		
Contact	Name	Meaning
1	+Ref	Transformer windings
2	-Ref	Transformer windings
3	+VCC ETS	Supply: Electronic nameplate (Only for motors and inverters that support this function)
4	+COS	Cosine stator windings
5	-COS	Cosine stator windings
6	+SIN	Sine stator windings
7	-SIN	Sine stator windings
8		Not assigned
9		Not assigned
10	Schirm	Encoder housing shield
11	+	Temperature monitoring: PT1000
12	-	Temperature monitoring: PT1000

ICN-M23 connector assignment

Incremental and SinCos absolute value encoder Hiperface®



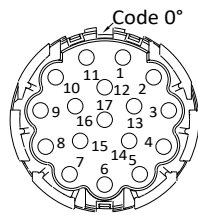
ICN M23 for encoders		
Contact	Name	Meaning
1	B	Track B / +SIN
2	A ⁻	Track A inverse / -COS
3	A	Track A / + COS
4	+UB	Supply +
5	GND	Mass
6	Z ⁻	Zero track inverse / -RS485
7	Z	Zero track / + RS485
8		Not assigned
9	B ⁻	Track B inverse / -SIN
10	Schirm	Encoder housing shield
11	+	Temperature monitoring: PT1000
12	-	Temperature monitoring: PT1000

Product extensions

Motor connection
Connection via connector



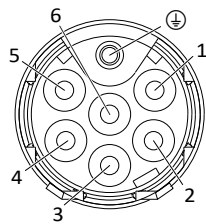
M23 connector assignment for EnDat cables



M23 for EnDat encoders		
Contact	Name	Meaning
1	UP Sensor	Up Sensor
2		Not assigned
3		Not assigned
4	0 V Sensor	0 V sensor
5	+	PT1000/KTY temperature sensor
6	-	PT1000/KTY temperature sensor
7	+UB	Supply +
8	Takt	EnDat interface cycle
9	Takt-	Inverse EnDat interface cycle
10	GND	Mass
11	Schirm	Encoder housing shield
12	B	Track B
13	B-	Track B inverse/-SIN
14	Daten	EnDat interface data
15	A	Track A
16	A-	Track A inverse /-COS
17	Daten-	Data inverse EnDat interface

Blower

Pin assignment ICN-M17



M17 for blowers 1-ph		
Contact	Name	Meaning
PE	PE	PE conductor
1	U1	Fan
2	U2	Fan
3		Not assigned
4		Not assigned
5		Not assigned
6		Not assigned



One Cable Technology (OCT)

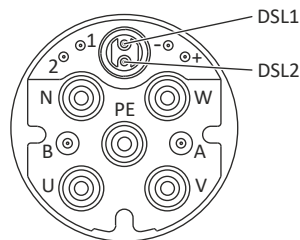
Power, brake, feedback and temperature monitoring connection

M23 connector assignment for OCT motor cables



M23_OCT		
Contact	Name	Meaning
A	BD1	Holding brake +
B	BD2	Holding brake -
C		Not assigned
D		Not assigned
H	VCC/Daten +	VCC/data +
L	GND/Daten -	GND/data -
PE	PE	PE
U	U	Power phase U
V	V	Power phase V
W	W	Power phase W

M40 connector assignment for OCT motor cables



M40_OCT		
Contact	Name	Meaning
-		Not assigned
+		Not assigned
1		Not assigned
2		Not assigned
A	BD1	Holding brake +
B	BD2	Holding brake -
DSL1	+	VCC/data +
DSL2	-	GND/data -
N		Not assigned
PE	PE	PE
U	U	Power phase U
V	V	Power phase V
W	W	Power phase W



Brakes

⚠ CAUTION!

They may not be used as safety elements (particularly with hoist axes) without additional measures being implemented.

The brakes used are not fail-safe brakes in the sense that prospective disruptive factors, e.g. oil ingress, can lead to a reduction in torque!

- ▶ The brakes must only be used as holding brakes for holding the axes at a standstill or in the deenergised state.
- ▶ The brake must not be used as a service brake.

⚠ CAUTION!

If no suitable voltage (incorrect value, incorrect polarity) is applied to the brake, the brake will be applied and can be overheated and destroyed by the motor continuing to rotate.

Motor supply cables

If long motor supply cables are used, pay attention to the ohmic voltage drop along the cable and compensate for it with a higher voltage at the input end of the cable.

The following applies to Lenze system cables:

$U[V] = U_B[V] + 0.08 \frac{[V]}{[A] \times [m]} \times I_{Lg}[m] \times I_B[A]$	U	V	Resulting supply voltage
	U _B	V	Rated voltage of the brake
	I _{Lg}	m	Cable length
	I _B	A	Rated current of the brake

NOTICE

- ▶ The brakes become active when the supply voltage has been switched off (closed-circuit principle).
- ▶ When using the brakes purely as holding brakes, virtually no wear occurs on the friction surfaces.
- ▶ The friction surfaces must always be free from oil and grease because even small amounts of grease or oil will considerably reduce the braking torque.

NOTICE

In case of these permanent magnet brakes, the rated torque applies solely as holding torque at standstill.

- ▶ Emergency stops at higher speeds are possible but high switching energy increases wear on the friction surfaces and the hub.
- ▶ During braking from full motor speed, e .g. in the event of emergency stops, the braking torque is significantly reduced.



NOTICE

In case of travel axes, the compliance of the permissible ratio of mass inertia load/brake motor (J_L/J_{MB}) ensures that the permissible maximum switching energy of the brake will not be exceeded and at least the values given for the emergency stop functions from the given speed (see rated data) are applied.

For hoist axes, the load torque resulting from the weight acts additionally. In this case, the specifications for (J_L/J_{MB}) do not apply.

To simplify matters, the friction energy per switching cycle can be calculated using the formula below and must not exceed the limit value for emergency stops, which depends on the switching rate:

$Q = \frac{1}{2} \times J_{ges} \times \left(2\pi \times \frac{\Delta n}{60} \right)^2 \times \frac{M_N}{M_N - M_L}$	Q	J	Friction energy
	J_{total}	kgm ²	Total mass inertia (motor + load)
	Δn	rpm	Differential speed
	M_N	Nm	Rated torque of the brake
	M_L	nM	Load torque



The shortest operating times of the brakes are achieved by DC switching of the voltage and an external suppressor circuit (varistor or spark suppressor).

Without suppressor circuit, the operating times may increase. A varistor/ spark suppressor limits the breaking voltage peaks. It must be ensured that the power limit of the suppressor circuit is not exceeded. This limit depends on the brake current, brake voltage, disengagement time and the switching operations per time unit.

Furthermore the suppressor circuit is necessary for interference suppression and for increasing the service life of the relay contacts (external, is not integrated into the motor).



It is not possible to readjust the brake.

Product extensions

Brakes
Permanent magnet brakes



Permanent magnet brakes

Rated data

NOTICE

Engagement and disengagement times apply to rated voltage ($\pm 0\%$) and suppressor circuit of the brakes with a varistor with DC switching. Without a suppressor circuit, the times may be longer.

The currents are the maximum values when the brake is cold (value used for dimensioning the current supply). The values for a motor at operating temperature are considerably lower.

Requirements with regard to the DC 24 V brake: smoothed DC voltage, ripple $\leq 1\%$.

Maximum switching energy per emergency stop with $n = 3000$ rpm for at least 2000 emergency stops.



Product extensions

Brakes
Permanent magnet brakes

Motor			MCS06C	MCS06F	MCS06I	MCS09D		MCS09F		MCS09H
Motor code			P1	P1	P1	P1	P2	P1	P2	P1
Supply voltage range	V_{in}	V	21.84 ... 25.2							
Supply voltage	V_{rated}	V	24							
Bemessungsdrehmoment										
At 20 °C	M_{rated}	Nm	2.2			8	12	8	12	8
At 120 °C	M_{rated}	Nm	2			6	10	6	10	6
Rated current	I_{rated}	A	0.34			0.67				
Engagement time t1	t_1	ms	15			20	13	20	13	20
Disengagement time t2	t_2	ms	30			40	43	40	43	40
Friction energy	Q_E	kJ	0.030			0.400				
Weight	m	kg	0.30			0.80	0.9	0.80	0.9	0.80
Massenträgheitsmoment										
Brake	J	kgcm ²	0.12			1.07				
Brake motor	J_{MB}	kgcm ²	0.26	0.34	0.42	2.17		2.57		2.97
Load/brake motor ratio	J_L/J_{MB}		22.1	16.6	13.3	36.4		30.5		26.3

Motor			MCS09H	MCS09L		MCS12D		MCS12H		MCS12L
Motor code			P2	P1	P2	P1	P2	P1	P2	P1
Supply voltage range	V_{in}	V	21.84 ... 25.2							
Supply voltage	V_{rated}	V	24							
Bemessungsdrehmoment										
At 20 °C	M_{rated}	Nm	12	8	12	24	12	24	12	12
At 120 °C	M_{rated}	Nm	10	6	10	19	10	19	10	10
Rated current	I_{rated}	A	0.67				0.75	0.67	0.75	0.67
Engagement time t1	t_1	ms	13	20	13	16	13	16	13	13
Disengagement time t2	t_2	ms	43	40	43	90	43	90	43	43
Friction energy	Q_E	kJ	0.400				0.890	0.400	0.890	0.400
Weight	m	kg	0.9	0.80	0.9	1.20	0.9	1.20	0.9	0.9
Massenträgheitsmoment										
Brake	J	kgcm ²	1.07				3.13	1.07	3.13	1.07
Brake motor	J_{MB}	kgcm ²	2.97	3.87		5.07	7.1	8.4	10.4	11.7
Load/brake motor ratio	J_L/J_{MB}		26.3	19.9		15	24.3	8.7	16.3	5.9

Product extensions

Brakes
Permanent magnet brakes



Motor			MCS12L	MCS14D		MCS14H		MCS14L		MCS14P
Motor code			P2	P1	P2	P1	P2	P1	P2	P1
Supply voltage range	V_{in}	V	21.84 ... 25.2							
Supply voltage	V_{rated}	V	24							
Bemessungsdrehmoment										
At 20 °C	M_{rated}	Nm	24	22	37	22	37	22	37	22
At 120 °C	M_{rated}	Nm	19	18	32	18	32	18	32	18
Rated current	I_{rated}	A	0.75		0.81	0.75	0.81	0.75	0.81	0.75
Engagement time t1	t_1	ms	16	15	96	15	96	15	96	15
Disengagement time t2	t_2	ms	90	150	113	150	113	150	113	150
Friction energy	Q_E	kJ	0.890	0.640	2.350	0.640	2.350	0.640	2.350	0.640
Weight	m	kg	1.20	1.9	3.1	1.9	3.1	1.9	3.1	1.9
Massenträgheitsmoment										
Brake	J	kgcm ²	3.13	3.2	12.4	3.2	12.4	3.2	12.4	3.2
Brake motor	J_{MB}	kgcm ²	13.7	11.3	20.5	17.4	26.6		35.8	37.9
Load/brake motor ratio	J_L/J_{MB}		12.1	10.5	22.2	6.5	16.9	3.9	12.3	2.4

Motor			MCS14P	MCS19F	MCS19J	MCS19P
Motor code			P2	P1	P2	P2
Supply voltage range	V _{in}	V	21.84 ... 25.2			
Supply voltage	V _{rated}	V	24			
Bemessungsdrehmoment						
At 20 °C	M _{rated}	Nm	37		95	
At 120 °C	M _{rated}	Nm	32		80	
Rated current	I _{rated}	A	0.81		1.46	
Engagement time t1	t ₁	ms	96		23	
Disengagement time t2	t ₂	ms	113		140	
Friction energy	Q _E	kJ	2.350		2.80	
Weight	m	kg	3.1		3.9	
Massenträgheitsmoment						
Brake	J	kgcm²	12.4		31.8	
Brake motor	J _{MB}	kgcm²	47.1	77	135	190
Load/brake motor ratio	J _L /J _{MB}		9.1	5.2	2.2	1.2



Feedback

For speed control with a servo inverter, the servo motor can be equipped with the following feedback systems:

Inverter	Feedback without functional safety		
	Resolver	Absolute value encoder	Digital absolute value encoder for OCT
i950 servo inverter	RS0	AM128-8V-H AM1024-8V-H AS1024-8V-H	AM20-8V-D
i750 servo inverter	RS0	AM128-8V-H AM1024-8V-H AS1024-8V-H	-
8400 TopLine inverter drives	RS0	AM128-8V-H AM1024-8V-H AS1024-8V-H	-
9400 HighLine servo drives	RS0	AM32-5V-E AM128-8V-H AM1024-8V-H AM2048-5V-E AS1024-8V-H AS2048-5V-E	-

Inverter	Feedback with functional safety		
	Resolver	Absolute value encoder	Digital absolute value encoder for OCT
i950 servo inverter	RV03	AM128-8V-K2 AM1024-8V-K2 AS1024-8V-K2	AM20-8V-D2
9400 HighLine servo drives	RV03	AM128-8V-K2 AM1024-8V-K2 AS1024-8V-K2	-

Feedbacks in the environment of functional safety

Motors can perform speed-dependent safety functions for safe speed and/or safe relative position monitoring in a drive system by Lenze inverters or Controllers. In case of inverters, these functions are implemented by integrable safety modules and in case of Controllers by the additionally required Safety Controller.

When planning systems/installations of this kind, always observe the following:

- When using just one single feedback system in the environment of these safety applications, the applicable safety engineering standard EN 61800-5-2 (adjustable speed electrical power drive systems - Part: 5-2: Safety requirements - Functional) stipulates special requirements for the connection between feedback system and motor shaft.
- This is due to the fact that two-channel safety systems at this point in the mechanical system are actually designed as single-channel systems. If this mechanical connection is designed with considerable overdimensioning, the standard permits exclusion of the fault "encoder-shaft breakage" or "encoder-shaft slip". As such, the permissible angular acceleration limit values must not be exceeded for the individual drive solutions.

You can find the limit values in the corresponding feedback data of the individual motor ranges.

Product extensions

Feedback
Resolver



Speed-dependent safety functions

Examples of speed-dependent safety functions:

- Safe stop 1 (SS1)
- Safe operational stop (SOS)
- Safely limited speed (SLS)
- Safe maximum speed (SMS)
- Safe direction (SDI)
- Operation mode selector (OMS) with confirmation (ES)
- Safe speed monitor (SSM)
- Safely limited increment (SLI)

Resolver

The stator-supplied, 2-pole resolver with two stator windings shifted by 90 degrees and a rotor winding with a transformer winding can record both the speed and the rotor position, just like a single-turn absolute value encoder. The rotor position can be determined within one mechanical motor revolution after a voltage failure.

Feedback type			Resolver	
Feedback			RS0	RV03
Speed-dependent safety functions			Nein	Ja
Design			Mounting	
Resolution - angle		'	0.8	0.8
Min. accuracy		'	-10	-10
Max. accuracy		'	10	10
Absolute positioning			1 revolution	1 revolution
Max. speed	$n_{\max}$	rpm	8000	8000
Max. DC input voltage	$V_{\text{in,max}}$	V	10	10
Max. input frequency	$f_{\text{in,max}}$	kHz	4	4
Ratio stator/rotor			0.3	0.3
Min ratio tolerance		%	-5	-5
Max ratio tolerance		%	5	5
Rotor impedance	Z_{ro}	Ω	51+j90	51+j90
Stator impedance	Z_{so}	Ω	102+j150	102+j150
Impedance	Z_{rs}	Ω	44+j76	44+j76
Min. insulation resistance at DC 500 V	R_{min}	M Ω	10	10
Number of pole pairs			1	1
Max. angle error Min		'	-10	-10
Max. angle error Max		'	10	10

Speed-dependent safety functions

Feedback			RV03
Motor code			RV03
Max. permissible angular acceleration			
MCS06	α	rad/s ²	56000
MCS09 ... MCS19	α	rad/s ²	19000
Functional safety			
IEC 61508			SIL3
EN 13849-1			Up to Performance Level e



Absolute value encoder

Absolute value encoders can detect the speed, the rotor position, and the machine position with a very high resolution. They are used for the positioning of dynamic applications and do not require homing.



In conjunction with the AMxx-8V-D digital absolute value encoder, the motor supports the HIPERFACE DSL® open motor feedback protocol for One Cable Technology (OCT).

Product extensions

Feedback
Absolute value encoder



Feedback type			Digital absolute value encoder		SinCos absolute value encoder			
Feedback			AM20-8V-D	AM20-8V-D2	AM32-5V-E	AM128-8V-H	AM128-8V-K2	AM1024-8V-H
Speed-dependent safety functions			Nein	Ja	Nein	Nein	Ja	Nein
Design			Mounting	Mounting	Mounting	Mounting	Mounting	Mounting
Encoder type			Multi-turn	Multi-turn	Multi-turn	Multi-turn	Multi-turn	Multi-turn
Resolution		bit	20	20	-	-	-	-
Pulses			-	-	32	128	128	1024
Output signals			Digital	Digital	SinCos 1 Vss	SinCos 1 Vss	SinCos 1 Vss	SinCos 1 Vss
Interfaces			Hiperface	Hiperface	EnDat	Hiperface	Hiperface	Hiperface
Absolute revolution			4096	4096	4096	4096	4096	4096
Resolution - angle			0.02	0.02	0.4	0.4	0.4	0.4
Min. accuracy		'	-	-	-5	-1.3	-1.3	-0.8
Max. accuracy		'	-	-	5	1.3	1.3	0.8
Fehlergrenze Positionswert								
System accuracy			1.7	1.7	-	-	-	-
Integral nonlinearity			1	1	-	-	-	-
Min. DC input voltage	$V_{in,min}$	V	-	-	4.75	7	7	7
Max. DC input voltage	$V_{in,max}$	V	-	-	5.25	12	12	12
Max. current consumption	I_{max}	A	0.15	0.15	0.17	0.06	0.06	0.08
Limit frequency	f_{max}	kHz	-	-	600	200	200	200

Feedback type			SinCos absolute value encoder				
Feedback			AM1024-8V-K2	AM2048-5V-E	AS1024-8V-H	AS1024-8V-K2	AS2048-5V-E
Speed-dependent safety functions			Ja	Nein	Nein	Ja	Nein
Design			Mounting	Mounting	Mounting	Mounting	Mounting
Encoder type			Multi-turn	Multi-turn	Single-turn	Single-turn	Single-turn
Resolution		bit	-	-	-	-	-
Pulses			1024	2048	1024	1024	2048
Output signals			SinCos 1 Vss	SinCos 1 Vss	SinCos 1 Vss	SinCos 1 Vss	SinCos 1 Vss
Interfaces			Hiperface	EnDat	Hiperface	Hiperface	EnDat
Absolute revolution			4096	4096	1	1	1
Resolution - angle			0.4	0.4	0.4	0.4	0.4
Min. accuracy		'	-0.8	-0.6	-0.8	-0.8	-0.6
Max. accuracy		'	0.8	0.6	0.8	0.8	0.6
Fehlergrenze Positionswert							
System accuracy			-	-	-	-	-
Integral nonlinearity			-	-	-	-	-
Min. DC input voltage	$V_{in,min}$	V	7	4.75	7	7	4.75
Max. DC input voltage	$V_{in,max}$	V	12	5.25	12	12	5.25
Max. current consumption	I_{max}	A	0.08	0.25	0.08	0.08	0.15
Limit frequency	f_{max}	kHz	200	200	200	200	200



Speed-dependent safety functions

Feedback			AM20-8V-D2	AM128-8V-K2	AM1024-8V-K2	AS1024-8V-K2
Motor code			EVM	SVM	SVM	SVS
Max. permissible angular acceleration						
MCS06	α	rad/s^2	240000	970000		
MCS09 ... MCS19	α	rad/s^2	240000	240000		
Functional safety						
IEC 61508			SIL2			
EN 13849-1			Up to Performance Level d			



Blower

The forced ventilation motors are cooled as a standard by means of a separate axial fan.

Rated data 50 Hz

Motor series			MCS					
Size			12		14		19	
Degree of protection			IP54					
Number of phases			1	1	1	1	1	1
Rated voltage	V _{rated}	V	115	230	115	230	115	230
Rated power	P _{rated}	kW	0.018	0.019	0.042	0.05	0.055	0.055
Rated current	I _{rated}	A	0.22	0.12	0.56	0.3	0.5	0.25

Rated data 60 Hz

Motor series			MCS					
Size			12		14		19	
Degree of protection			IP54					
Number of phases			1	1	1	1	1	1
Rated voltage	V _{rated}	V	115	230	115	230	115	230
Rated power	P _{rated}	kW	0.018	0.019	0.044	0.044	0.07	0.065
Rated current	I _{rated}	A	0.22	0.12	0.56	0.25	0.61	0.29



Temperature monitoring

Thermal detectors PT1000

The thermal detector used continuously monitors the motor temperature. The temperature information is transferred to the inverter using the system cable of the feedback system. **This is not a full motor protection!**

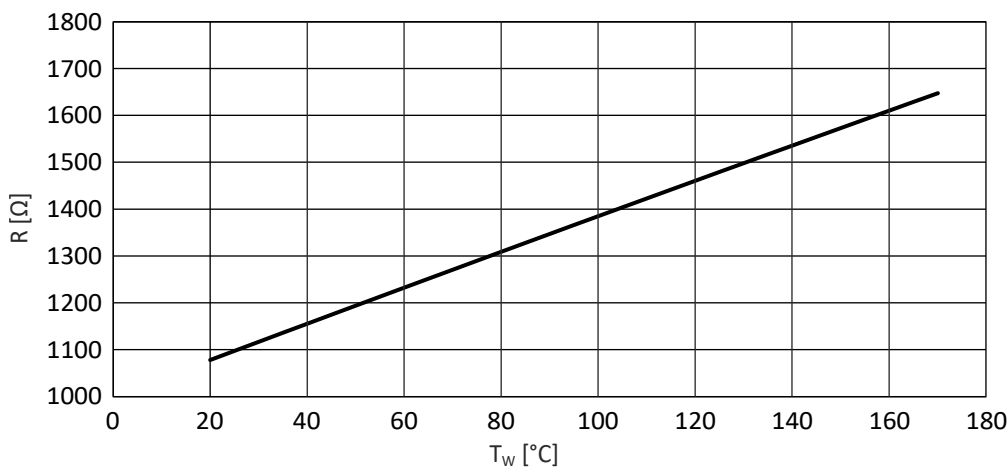
This makes it possible to determine the motor temperature in the permissible operating range with great accuracy.

MCS06

In case of this motor, the winding temperature of a winding phase is monitored with a thermal sensor PT1000.



When supplying the thermal sensors with a measurement current of 1 mA, the connection between the temperature and the resistance measured applies.



R Resistance
 T_w Winding temperature

MCS09 ... 19

These motors are monitored via three thermal sensors connected in series (1x PT1000 + 2x PTC 150 °C). This makes it possible to determine the motor temperature in the permissible operating range and at the same time execute the overtemperature response configured in the controller in one of the winding strands.



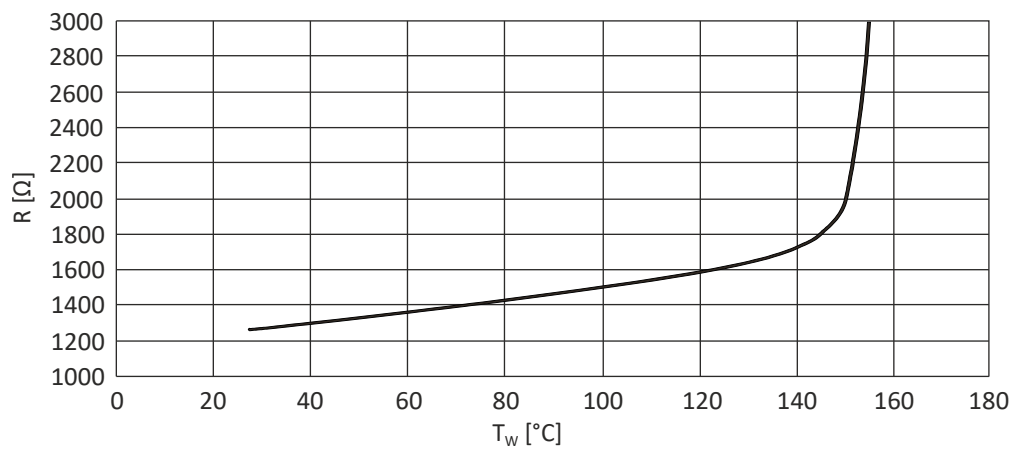
The three thermal sensors connected in series are identified on the nameplate by the short designation "PT1k+2PTC".

Product extensions

Temperature monitoring
Thermal detectors PT1000



When supplying the thermal sensors with a measurement current of 1 mA, the connection between the temperature and the resistance measured applies.



R Resistance
 T_w Winding temperature



Product codes

Planetary and bevel planetary gearbox product code g7□0

Example		G	7	5	A	P	113	M	V	C	R	1	C00
Portfolio segment	Gearbox	G											
Product	7		7										
Product type	0			0									
	2			2									
	3			3									
	5			5									
	8			8									
Product generation	A				A								
Product type	bevel planetary gearbox					B							
	Planetary gearbox					P							
torque (Examples)	44 Nm						044						
	97 Nm						097						
	130 Nm						113						
	195 Nm						119						
Type of construction	Geared motor							M					
	Gearbox							N					
Output shaft	Output shaft with featherkey								V				
	Smooth output shaft								G				
	Flanged output shaft with dowel hole								E				
Housing type	Without foot with centering									C			
Flange mounting	Without flange										R		
	Flange with through holes										K		
Number of stages	1-stage											1	
	2-stage											2	
	3-stage											3	
Motor mounting	Motor integrated												C00
	IEC adapter with jaw coupling												Nxx Txx
	NEMA adapter with jaw coupling												Axx
	Servo motor-adapter with plug-in hollow shaft												Sxx



Planetary and bevel planetary gearbox product code g8□0

Example		G	8	4	A	P	040	M	V	C	R	1	C00
Portfolio segment	Gearbox	G											
Product	8		8										
Product type	2			2									
	4			4									
	5			5									
	6			6									
	7			7									
	8			8									
Product generation	A				A								
Product type	bevel planetary gearbox					B							
	Planetary gearbox					P							
torque (Examples)	40 Nm						040						
	80 Nm						080						
	130 Nm						113						
	300 Nm						130						
	1000 Nm						210						
	1800 Nm						218						
Type of construction	Geared motor							M					
	Gearbox							N					
Output shaft	Output shaft with featherkey								V				
	Smooth output shaft								G				
	Toothed output shaft								Z				
	Flanged output shaft								F				
	Flanged output shaft with dowel hole								E				
	Flanged hollow output shaft with dowel hole								K				
	Shrink disc								S				
	Hollow shaft								H				
Housing type	Without foot with centering									C			
Flange mounting	Without flange										R		
	Flange with through holes										N		
Number of stages	1-stage											1	
	2-stage											2	
Motor mounting	Motor integrated												C00
	IEC adapter with jaw coupling												Nxx Txx
	NEMA adapter with jaw coupling												Axx
	Servo motor-adapter with plug-in hollow shaft												Sxx



Product code of MCS synchronous servo motor

Example		M	C	S	06	C	41	-	RS0	B0
Meaning	Variant	Product code								
Product family	Motor	M								
Type	Compact servo motors		C							
Version	Synchronous			S						
Motor frame size	Square dimension 62 mm				06					
	Square dimension 89 mm				09					
	Square dimension 116 mm				12					
	Square dimension 142 mm				14					
	Square dimension 192 mm				19					
Overall length						C ... P				
Rated speed	rpm x 100						11 ... 60			
Inverter mains connection	3 x 230 V							L		
	3 x 400 V							-		
Feedback	SinCos absolute value encoder, single-turn, EnDat AS2048-5V-E									ECN
	Digital absolute value encoder, multi-turn, Hiperface DSL® AM20-8V-D									EKM
	SinCos absolute value encoder, multi-turn, EnDat AM32-5V-E									EQI
	SinCos absolute value encoder, multi-turn, EnDat AM2048-5V-E									EQN
	Digital safety absolute value encoder, multi-turn, Hiperface DSL® AM20-8V-D2									EVM
	Resolver p=1									RS0
	Safety resolver, p=1 RV03									RV0
	SinCos absolute value encoder, multi-turn, Hiperface® AM128-8V-H									SKM
	SinCos absolute value encoder, multi-turn, Hiperface® AM1024-8V-H									SRM
	SinCos absolute value encoder, single-turn, Hiperface® AS1024-8V-H									SRS
	SinCos safety absolute value encoder, multi-turn, Hiperface® AM128-8V-K2									SVM
	SinCos safety absolute value encoder, multi-turn, Hiperface® AM1024-8V-K2									SVM
	SinCos safety absolute value encoder, single-turn, Hiperface® AS1024-8V-K2									SVS
Brake	Without brake									B0
	Permanent magnet brake DC 24V									P1
	Permanent magnet brake DC 24V, reinforced									P2

Motor data

Rated data

Inverter mains connection 400 V, Self-ventilated motors



Motor data

Rated data

Inverter mains connection 400 V, Self-ventilated motors

Motor			MCS 06C60-	MCS 06C41-	MCS 06F60-	MCS 06F41-	MCS 06I60-	MCS 06I41-
Standstill torque	M_0	Nm	0.800	0.800	1.50	1.50	2.00	2.00
Rated torque	M_{rated}	Nm	0.500	0.600	0.900	1.20	1.20	1.50
Max. torque	M_{max}	Nm	2.40	2.40	4.40	4.40	6.20	6.20
Rated speed	n_{rated}	rpm	6000	4050	6000	4050	6000	4050
Max. speed	n_{max}	rpm	8000	8000	8000	8000	8000	8000
Rated power	P_{rated}	kW	0.31	0.25	0.57	0.51	0.75	0.64
Standstill current	I_0	A	2.50	1.30	2.90	1.50	3.40	1.70
Rated current	I_{rated}	A	2.40	1.30	2.50	1.50	2.90	1.60
Max. current	I_{max}	A	10.8	5.40	10.5	5.30	11.8	5.90
Rated voltage	V_{rated}	V	135	225	180	320	190	325
Rated frequency	f_{rated}	Hz	400	270	400	270	400	270
Moment of inertia	J	kgcm ²	0.140	0.140	0.220	0.220	0.300	0.300
Efficiency	η		0.7	0.65	0.81	0.77	0.84	0.81
Torque constant	$Kt_{0.150}$	Nm/A	0.320	0.615	0.517	1.00	0.588	1.18
Voltage constant	$KE_{LL 150}$	V/(1000/min) °C	17.89	35.79	29.33	58.76	35.88	71.77
Stator terminal resistance	$R_{UV 20}$	Ω	6.8	27	5.4	21.8	4.6	18.8
Stator terminal resistance	$R_{UV 150}$	Ω	10.248	40.689	8.138	32.853	6.932	28.332
Stator inductance	L	mH	12.8	51.0	15.9	63.5	15.1	60.2
Weight	m	kg	2.30	2.30	2.70	2.70	3.40	3.40



Motor data

Rated data
Inverter mains connection 400 V, Self-ventilated motors

Motor			MCS 09D60-	MCS 09D41-	MCS 09F60-	MCS 09H60-	MCS 09F38-	MCS 09L51-
Standstill torque	M_0	Nm	3.30	3.30	4.20	5.50	4.20	7.50
Rated torque	M_{rated}	Nm	1.80	2.30	2.40	3.00	3.10	3.60
Max. torque	M_{max}	Nm	9.50	9.50	15.0	20.0	15.0	32.0
Rated speed	n_{rated}	rpm	6000	4050	6000	6000	3750	5100
Max. speed	n_{max}	rpm	7000	7000	7000	7000	7000	7000
Rated power	P_{rated}	kW	1.1	1	1.5	1.9	1.2	1.9
Standstill current	I_0	A	5.30	2.60	6.00	8.50	3.00	12.4
Rated current	I_{rated}	A	3.80	2.30	4.50	6.00	2.50	6.90
Max. current	I_{max}	A	20.0	10.0	30.0	40.0	15.0	64.0
Rated voltage	V_{rated}	V	210	320	230	190	330	180
Rated frequency	f_{rated}	Hz	400	270	400	400	250	340
Moment of inertia	J	kgcm ²	1.10	1.10	1.50	1.90	1.50	2.80
Efficiency	η		0.87	0.82	0.9	0.91	0.9	0.91
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	0.623	1.27	0.700	0.647	1.40	0.605
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	34.81	69.62	39.01	36.96	78.02	35.1
Stator terminal resistance	$R_{UV 20}$ °C	Ω	1.8	7	1.2	0.8	5.2	0.44
Stator terminal resistance	$R_{UV 150}$ °C	Ω	2.713	10.549	1.808	1.206	7.836	0.663
Stator inductance	L	mH	6.30	25.1	6.15	4.02	24.6	2.50
Weight	m	kg	4.80	4.80	5.70	6.60	5.70	8.40

Motor data

Rated data

Inverter mains connection 400 V, Self-ventilated motors



Motor			MCS 09H41-	MCS 09L41-	MCS 12D41-	MCS 12D20-	MCS 12H35-	MCS 12H15-
Standstill torque	M_0	Nm	5.50	7.50	6.40	6.40	11.4	11.4
Rated torque	M_{rated}	Nm	3.80	4.50	4.30	5.50	7.50	10.0
Max. torque	M_{max}	Nm	20.0	32.0	18.0	18.0	29.0	29.0
Rated speed	n_{rated}	rpm	4050	4050	4050	1950	3525	1500
Max. speed	n_{max}	rpm	7000	7000	6000	6000	6000	6000
Rated power	P_{rated}	kW	1.6	1.9	1.8	1.1	2.8	1.6
Standstill current	I_0	A	4.30	6.20	5.50	2.70	8.20	4.10
Rated current	I_{rated}	A	3.40	4.20	4.50	2.60	5.70	3.80
Max. current	I_{max}	A	20.0	32.0	20.0	10.0	24.0	12.0
Rated voltage	V_{rated}	V	300	295	310	345	325	300
Rated frequency	f_{rated}	Hz	270	270	270	130	235	100
Moment of inertia	J	kgcm ²	1.90	2.80	4.00	4.00	7.30	7.30
Efficiency	η		0.91	0.91	0.84	0.85	0.91	0.88
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	1.28	1.21	1.16	2.37	1.39	2.78
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	74.02	70.1	67.07	133.95	84.58	169.15
Stator terminal resistance	$R_{UV 20}$ °C	Ω	3.2	1.8	2.2	8.7	1.4	5.8
Stator terminal resistance	$R_{UV 150}$ °C	Ω	4.822	2.713	3.315	13.111	2.11	8.741
Stator inductance	L	mH	16.1	9.90	13.0	52.2	10.5	42.1
Weight	m	kg	6.60	8.40	7	7	10.1	10.1



Motor data

Rated data

Inverter mains connection 400 V, Self-ventilated motors

Motor			MCS 12L41-	MCS 12L20-	MCS 14D36-	MCS 14D15-	MCS 14H32-	MCS 14H15-
Standstill torque	M_0	Nm	15.0	15.0	11.0	11.0	21.0	21.0
Rated torque	M_{rated}	Nm	11.0	13.5	7.50	9.20	14.0	16.0
Max. torque	M_{max}	Nm	56.0	56.0	29.0	29.0	55.0	55.0
Rated speed	n_{rated}	rpm	4050	1950	3600	1500	3225	1500
Max. speed	n_{max}	rpm	6000	6000	6000	6000	6000	6000
Rated power	P_{rated}	kW	4.7	2.8	2.8	1.45	4.7	2.5
Standstill current	I_0	A	12.4	6.20	10.0	5.00	16.9	8.50
Rated current	I_{rated}	A	10.2	5.90	7.50	4.50	11.9	6.60
Max. current	I_{max}	A	56.0	28.0	33.0	16.5	51.5	25.8
Rated voltage	V_{rated}	V	300	330	295	305	295	325
Rated frequency	f_{rated}	Hz	270	130	240	100	215	100
Moment of inertia	J	kgcm ²	10.6	10.6	8.10	8.10	14.2	14.2
Efficiency	η		0.91	0.9	0.92	0.88	0.93	0.92
Torque constant	$K_{t_{0.150}}$	Nm/A	1.21	2.42	1.10	2.20	1.24	2.47
	°C							
Voltage constant	$K_{E_{LL 150}}$	V/(1000/min)	72.94	145.69	62.77	126.13	74.6	149.6
	°C							
Stator terminal resistance	$R_{UV 20}$	Ω	0.6	2.2	1	4	0.52	2.08
	°C							
Stator terminal resistance	$R_{UV 150}$	Ω	0.904	3.315	1.507	6.028	0.784	3.135
	°C							
Stator inductance	L	mH	5.45	21.8	12.5	49.8	8.53	34.1
Weight	m	kg	13.2	13.2	11.4	11.4	16.2	16.2

Motor data

Rated data

Inverter mains connection 400 V, Self-ventilated motors



Motor			MCS 14L32-	MCS 14P32-	MCS 14L15-	MCS 14P14-	MCS 19F30-	MCS 19F14-
Standstill torque	M_0	Nm	28.0	37.0	28.0	37.0	32.0	32.0
Rated torque	M_{rated}	Nm	17.2	21.0	23.0	30.0	21.0	27.0
Max. torque	M_{max}	Nm	77.0	105	77.0	105	86.0	86.0
Rated speed	n_{rated}	rpm	3225	3225	1500	1350	3000	1425
Max. speed	n_{max}	rpm	6000	6000	6000	6000	4000	4000
Rated power	P_{rated}	kW	5.8	7.1	3.6	4.2	6.6	4
Standstill current	I_0	A	24.0	24.3	12.0	12.2	19.8	9.90
Rated current	I_{rated}	A	15.0	15.6	9.70	10.8	14.0	8.60
Max. current	I_{max}	A	74.5	92.0	37.3	46.0	62.5	31.3
Rated voltage	V_{rated}	V	275	315	315	340	300	335
Rated frequency	f_{rated}	Hz	215	215	100	90	200	95
Moment of inertia	J	kgcm ²	23.4	34.7	23.4	34.7	65.0	65.0
Efficiency	η		0.93	0.93	0.9	0.9	0.93	0.92
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	1.17	1.52	2.33	3.03	1.62	3.23
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	74.5	87.41	148.62	175.02	95.04	190.66
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.4	0.28	1.2	1.2	0.32	1.3
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.603	0.422	1.808	1.808	0.482	1.959
Stator inductance	L	mH	5.51	5.99	22.0	23.9	5.20	20.8
Weight	m	kg	20.8	25.6	20.8	25.6	24	24



Motor data

Rated data
Inverter mains connection 400 V, Self-ventilated motors

Motor			MCS 19J30-	MCS 19P30-	MCS 19J14-	MCS 19P14-
Standstill torque	M_0	Nm	51.0	64.0	51.0	64.0
Rated torque	M_{rated}	Nm	29.0	32.0	40.0	51.0
Max. torque	M_{max}	Nm	129	190	129	190
Rated speed	n_{rated}	rpm	3000	3000	1425	1350
Max. speed	n_{max}	rpm	4000	4000	4000	4000
Rated power	P_{rated}	kW	9.1	10	6	7.2
Standstill current	I_0	A	30.5	34.9	15.2	17.5
Rated current	I_{rated}	A	18.5	19.0	12.3	14.3
Max. current	I_{max}	A	89.6	120	44.8	60.0
Rated voltage	V_{rated}	V	300	320	330	330
Rated frequency	f_{rated}	Hz	200	200	95	90
Moment of inertia	J	kgcm ²	105	160	105	160
Efficiency	η		0.93	0.93	0.92	0.92
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	1.67	1.83	3.36	3.66
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	97.29	105.6	194.57	211.19
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.16	0.14	0.66	0.54
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.241	0.211	0.995	0.814
Stator inductance	L	mH	3.20	2.40	12.8	9.60
Weight	m	kg	31	41	31	41

Motor data

Rated data

Inverter mains connection 400 V, Forced ventilated motors



Inverter mains connection 400 V, Forced ventilated motors

Motor			MCS 12H34-	MCS 12H14-	MCS 12L39-	MCS 12L17-	MCS 12D35-	MCS 12D17-
Standstill torque	M_0	Nm	12.8	12.8	19.0	19.0	7.50	7.50
Rated torque	M_{rated}	Nm	10.5	12.0	14.0	17.0	6.00	7.00
Max. torque	M_{max}	Nm	29.0	29.0	56.4	56.4	17.7	17.7
Rated speed	n_{rated}	rpm	3375	1350	3900	1650	3525	1650
Max. speed	n_{max}	rpm	6000	6000	6000	6000	6000	6000
Rated power	P_{rated}	kW	3.7	1.7	5.7	2.9	2.2	1.2
Standstill current	I_0	A	8.50	4.60	14.4	7.20	6.40	3.20
Rated current	I_{rated}	A	7.50	4.10	11.7	6.70	5.60	3.00
Max. current	I_{max}	A	24.0	12.0	57.0	28.0	20.0	10.0
Rated voltage	V_{rated}	V	320	310	295	300	300	330
Rated frequency	f_{rated}	Hz	225	90	260	110	235	110
Moment of inertia	J	kgcm ²	7.30	7.30	10.6	10.6	4.00	4.00
Efficiency	η		0.86	0.8	0.94	0.9	0.85	0.75
Torque constant	$K_{t0\ 150}$ °C	Nm/A	1.51	2.78	1.32	2.64	1.17	2.34
Voltage constant	$K_{eLL\ 150}$ °C	V/ (1000/ min)	84.58	169.15	72.94	145.69	67.07	133.95
Stator terminal resistance	$R_{UV\ 20}$ °C	Ω	1.4	5.8	0.6	2.2	4.4	17.4
Stator terminal resistance	$R_{UV\ 150}$ °C	Ω	2.11	8.741	0.904	3.315	6.631	26.222
Stator inductance	L	mH	10.5	42.1	5.45	21.8	13.0	52.2
Weight	m	kg	12.2	12.2	15.3	15.3	9.1	9.1



Motor data

Rated data

Inverter mains connection 400 V, Forced ventilated motors

Motor			MCS 14D30-	MCS 14D14-	MCS 14H28-	MCS 14H12-	MCS 14L30-	MCS 14L14-
Standstill torque	M_0	Nm	12.5	12.5	25.5	25.5	34.5	34.5
Rated torque	M_{rated}	Nm	10.5	12.0	20.5	23.5	25.5	30.5
Max. torque	M_{max}	Nm	29.0	29.0	54.8	54.8	77.1	77.1
Rated speed	n_{rated}	rpm	3000	1350	2775	1200	3000	1350
Max. speed	n_{max}	rpm	6000	6000	6000	6000	6000	6000
Rated power	P_{rated}	kW	3.3	1.7	6	3	8	4.3
Standstill current	I_0	A	11.4	5.70	18.4	9.30	26.7	13.4
Rated current	I_{rated}	A	9.70	5.40	15.0	8.30	20.8	11.8
Max. current	I_{max}	A	33.0	16.5	51.5	25.8	74.5	37.3
Rated voltage	V_{rated}	V	325	345	325	335	310	335
Rated frequency	f_{rated}	Hz	200	90	185	80	200	90
Moment of inertia	J	kgcm ²	8.10	8.10	14.2	14.2	23.4	23.4
Efficiency	η		0.92	0.84	0.93	0.87	0.92	0.88
Torque constant	$K_{t_{0.150}}$	Nm/A	1.10	2.19	1.39	2.74	1.29	2.57
	°C							
Voltage constant	$K_{E_{LL 150}}$	V/(1000/min)	62.77	126.13	74.6	149.6	74.5	148.62
	°C							
Stator terminal resistance	$R_{UV 20}$	Ω	1	4	0.52	2.08	0.4	1.2
	°C							
Stator terminal resistance	$R_{UV 150}$	Ω	1.507	6.028	0.784	3.135	0.603	1.808
	°C							
Stator inductance	L	mH	12.5	49.8	8.53	34.1	5.51	22.0
Weight	m	kg	15.2	15.2	20.2	20.2	24.7	24.7

Motor data

Rated data

Inverter mains connection 400 V, Forced ventilated motors



Motor			MCS 14P26-	MCS 14P11-	MCS 19F29-	MCS 19F12-	MCS 19J29-	MCS 19P29-
Standstill torque	M_0	Nm	43.5	43.5	41.5	41.5	70.5	86.0
Rated torque	M_{rated}	Nm	33.0	42.0	32.5	38.0	50.5	53.0
Max. torque	M_{max}	Nm	105	105	86.0	86.0	129	190
Rated speed	n_{rated}	rpm	2625	1050	2850	1200	2850	2850
Max. speed	n_{max}	rpm	6000	6000	4000	4000	4000	4000
Rated power	P_{rated}	kW	9.1	4.6	9.7	4.8	15.1	15.8
Standstill current	I_0	A	28.3	14.1	24.5	12.2	40.6	44.7
Rated current	I_{rated}	A	21.9	13.4	20.1	11.3	31.0	29.5
Max. current	I_{max}	A	92.0	46.0	62.5	31.3	89.6	120
Rated voltage	V_{rated}	V	325	330	320	320	315	315
Rated frequency	f_{rated}	Hz	175	70	190	80	190	190
Moment of inertia	J	kgcm ²	34.7	34.7	65.0	65.0	105	160
Efficiency	η		0.92	0.86	0.95	0.9	0.93	0.93
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	1.54	3.09	1.69	3.40	1.74	1.92
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	87.41	175.02	95.04	190.66	97.29	105.6
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.28	1.2	0.32	1.3	0.16	0.14
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.422	1.808	0.482	1.959	0.241	0.211
Stator inductance	L	mH	5.99	23.9	5.20	20.8	3.20	2.40
Weight	m	kg	29.7	29.7	30	30	37	47



Motor data

Rated data

Inverter mains connection 400 V, Forced ventilated motors

Motor			MCS 19J12-	MCS 19P12-
Standstill torque	M_0	Nm	70.5	86.0
Rated torque	M_{rated}	Nm	62.5	72.0
Max. torque	M_{max}	Nm	129	190
Rated speed	n_{rated}	rpm	1200	1200
Max. speed	n_{max}	rpm	4000	4000
Rated power	P_{rated}	kW	7.9	9
Standstill current	I_0	A	20.3	22.4
Rated current	I_{rated}	A	18.3	21.3
Max. current	I_{max}	A	44.8	60.0
Rated voltage	V_{rated}	V	320	310
Rated frequency	f_{rated}	Hz	80	80
Moment of inertia	J	kgcm ²	105	160
Efficiency	η		0.89	0.9
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	3.47	3.84
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	194.57	211.19
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.66	0.54
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.995	0.814
Stator inductance	L	mH	12.8	9.60
Weight	m	kg	37	47

Motor data

Rated data

Inverter mains connection 230 V, Self-ventilated motors



Inverter mains connection 230 V, Self-ventilated motors

Motor			MCS 06C60L	MCS 06C41L	MCS 06F60L	MCS 06F41L	MCS 06I60L	MCS 06I41L
Standstill torque	M_0	Nm	0.800	0.800	1.50	1.50	2.00	2.00
Rated torque	M_{rated}	Nm	0.500	0.600	0.900	1.20	1.20	1.50
Max. torque	M_{max}	Nm	2.40	2.40	4.40	4.40	6.20	6.20
Rated speed	n_{rated}	rpm	6000	4050	6000	4050	6000	4050
Max. speed	n_{max}	rpm	8000	8000	8000	8000	8000	8000
Rated power	P_{rated}	kW	0.31	0.25	0.57	0.51	0.75	0.64
Standstill current	I_0	A	4.30	2.50	3.80	2.90	4.20	3.10
Rated current	I_{rated}	A	4.00	2.50	3.40	2.90	3.60	2.90
Max. current	I_{max}	A	18.5	10.8	16.5	10.5	16.0	11.8
Rated voltage	V_{rated}	V	85	125	125	165	150	175
Rated frequency	f_{rated}	Hz	400	270	400	270	400	270
Moment of inertia	J	kgcm ²	0.140	0.140	0.220	0.220	0.300	0.300
Efficiency	η		0.7	0.65	0.82	0.81	0.84	0.81
Torque constant	$K_{t_{0\ 150}}$	Nm/A	0.186	0.320	0.395	0.517	0.476	0.645
Voltage constant	$K_{E_{LL\ 150}}$	V/(1000/min) °C	12.22	21.02	21.71	33.73	27.87	37.15
Stator terminal resistance	$R_{UV\ 20}$	Ω	2.148	5.926	2.222	5.481	2.519	4.593
Stator terminal resistance	$R_{UV\ 150}$	Ω	3.237	8.93	3.349	8.26	3.796	6.922
Stator inductance	L	mH	4.30	12.8	6.90	15.9	9.30	15.1
Weight	m	kg	2.30	2.30	2.70	2.70	3.40	3.40



Motor data

Rated data
Inverter mains connection 230 V, Self-ventilated motors

Motor			MCS 09D60L	MCS 09D41L	MCS 09F60L	MCS 09H60L	MCS 09F38L	MCS 09H41L
Standstill torque	M_0	Nm	3.30	3.30	4.20	5.50	4.20	5.50
Rated torque	M_{rated}	Nm	1.80	2.30	2.40	3.00	3.10	3.80
Max. torque	M_{max}	Nm	9.50	9.50	15.0	20.0	15.0	20.0
Rated speed	n_{rated}	rpm	6000	4050	6000	6000	3750	4050
Max. speed	n_{max}	rpm	7000	7000	7000	7000	7000	7000
Rated power	P_{rated}	kW	1.1	1	1.5	1.9	1.2	1.6
Standstill current	I_0	A	10.3	5.30	10.5	12.0	6.00	8.50
Rated current	I_{rated}	A	7.00	4.60	7.90	8.00	5.00	6.80
Max. current	I_{max}	A	39.0	20.0	52.5	57.0	30.0	40.0
Rated voltage	V_{rated}	V	110	165	125	145	160	160
Rated frequency	f_{rated}	Hz	400	270	400	400	250	270
Moment of inertia	J	kgcm ²	1.10	1.10	1.50	1.90	1.50	1.90
Efficiency	η		0.87	0.87	0.9	0.91	0.9	0.91
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	0.320	0.623	0.400	0.458	0.700	0.647
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	17.89	34.81	22.29	26.01	39.01	36.96
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.45	1.75	0.415	0.356	1.333	0.889
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.678	2.637	0.625	0.536	2.009	1.34
Stator inductance	L	mH	1.70	6.30	2.00	2.00	6.20	4.00
Weight	m	kg	4.90	4.90	5.80	6.70	5.80	6.70

Motor data

Rated data

Inverter mains connection 230 V, Self-ventilated motors



Motor			MCS 09L41L	MCS 12H15L	MCS 12L20L	MCS 12D41L	MCS 12D20L	MCS 12H30L
Standstill torque	M_0	Nm	7.50	11.4	15.0	6.40	6.40	11.4
Rated torque	M_{rated}	Nm	4.50	10.0	13.5	4.30	5.50	8.00
Max. torque	M_{max}	Nm	32.0	29.0	56.0	18.0	18.0	29.0
Rated speed	n_{rated}	rpm	4050	1500	1950	4050	1950	3000
Max. speed	n_{max}	rpm	7000	6000	6000	6000	6000	6000
Rated power	P_{rated}	kW	1.9	1.6	2.8	1.8	1.1	2.5
Standstill current	I_0	A	12.4	8.20	12.4	10.7	5.50	13.5
Rated current	I_{rated}	A	8.40	7.60	11.8	8.80	5.20	10.5
Max. current	I_{max}	A	64.0	24.0	57.0	40.0	20.0	39.0
Rated voltage	V_{rated}	V	145	158	165	155	175	165
Rated frequency	f_{rated}	Hz	270	100	130	270	130	200
Moment of inertia	J	kgcm ²	2.80	7.30	10.6	4.00	4.00	7.30
Efficiency	η		0.91	0.86	0.9	0.84	0.85	0.87
Torque constant	$K_{t_{0.150}}$ °C	Nm/A	0.605	1.39	1.21	0.598	1.16	0.844
Voltage constant	$K_{E_{LL 150}}$ °C	V/ (1000/ min)	35.1	84.58	75.19	34.22	67.07	51.82
Stator terminal resistance	$R_{UV 20}$ °C	Ω	0.44	1.41	0.548	0.55	2.2	0.489
Stator terminal resistance	$R_{UV 150}$ °C	Ω	0.663	2.125	0.826	0.829	3.315	0.737
Stator inductance	L	mH	2.50	10.5	5.50	3.40	13.0	4.00
Weight	m	kg	8.50	10.2	13.3	7.10	7.10	10.2



Torque characteristics



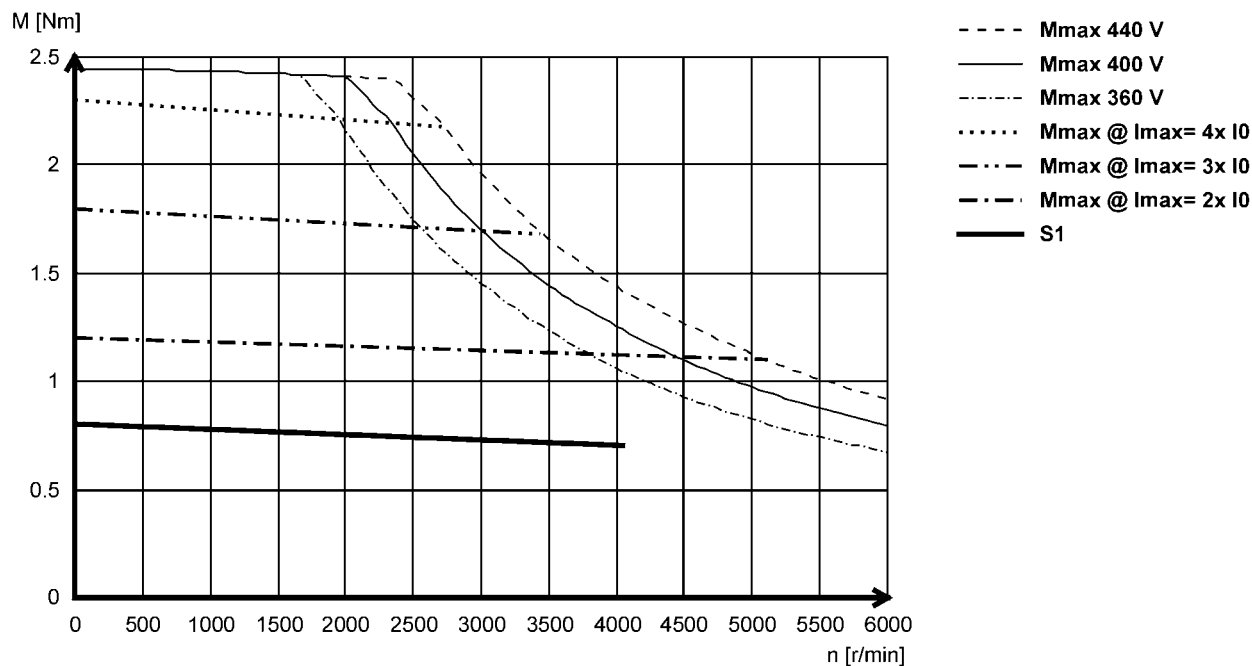
The torque/speed characteristic for your motor/inverter combination can be found on the Internet:

<http://www.lenze.com> → Product Finder → M-n characteristics

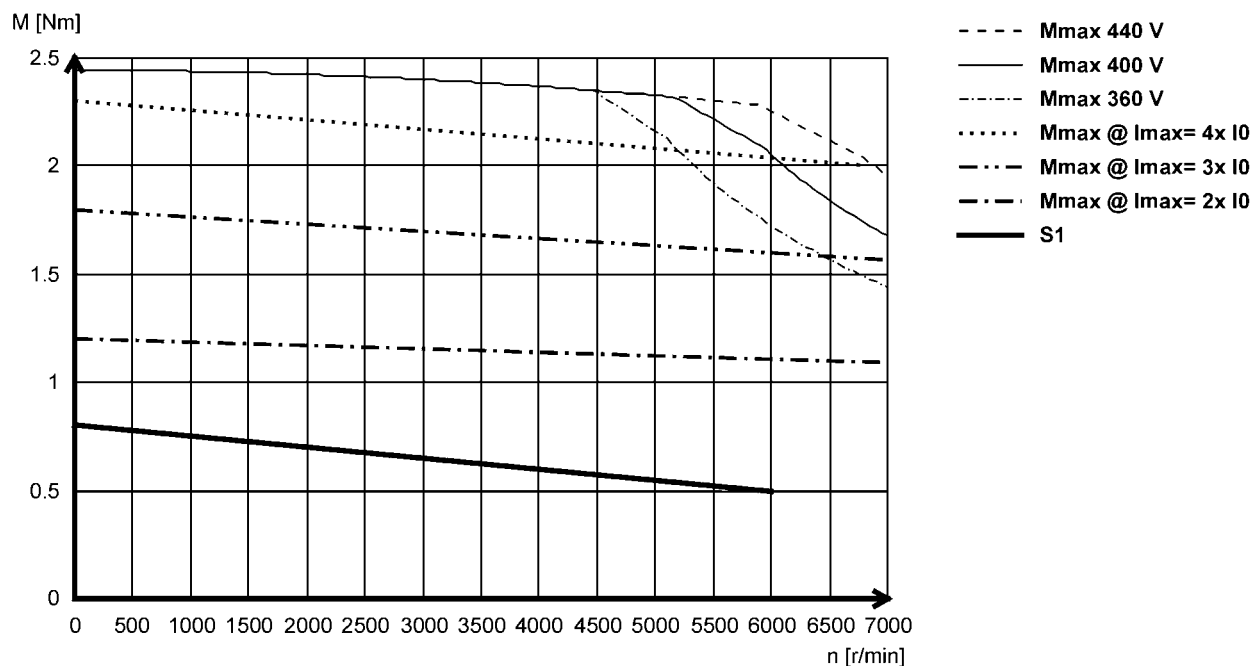


The following data apply to a mains voltage 3 x 400 V of the inverter.

MCS06C41- (self-ventilated)

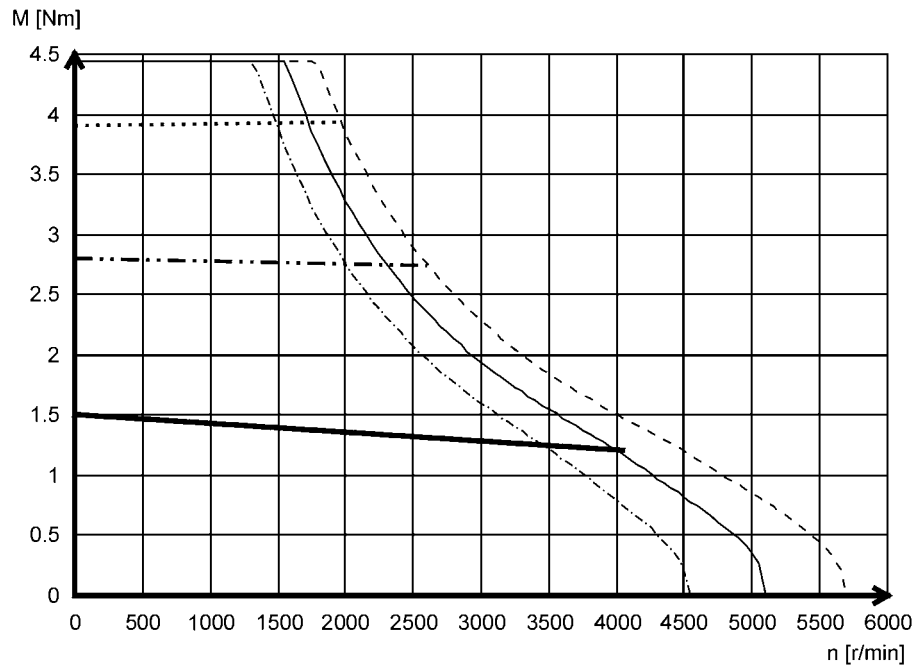


MCS06C60- (self-ventilated)



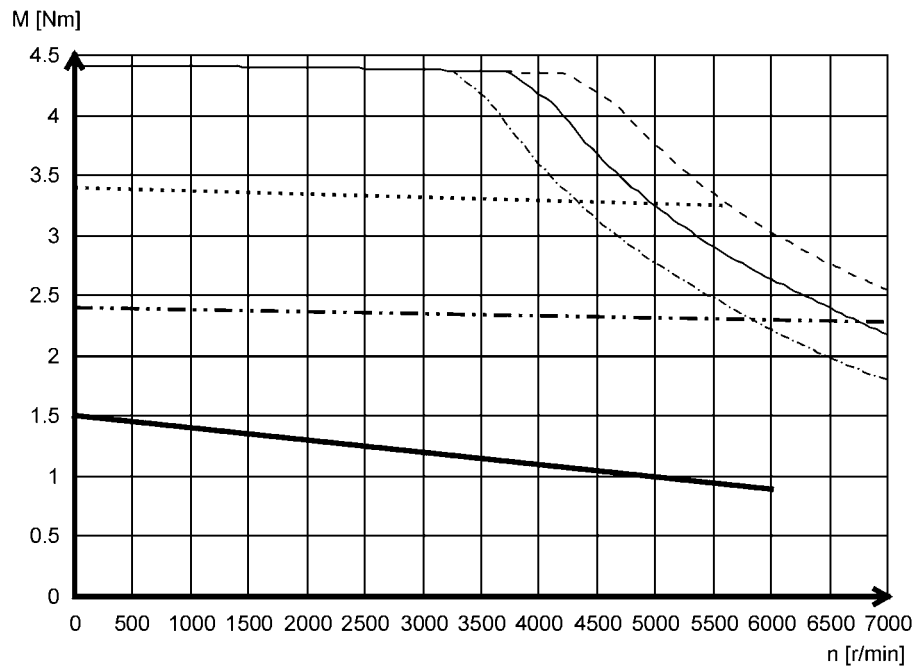


MCS06F41- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · - · - Mmax @ Imax= 2x I₀
- S1

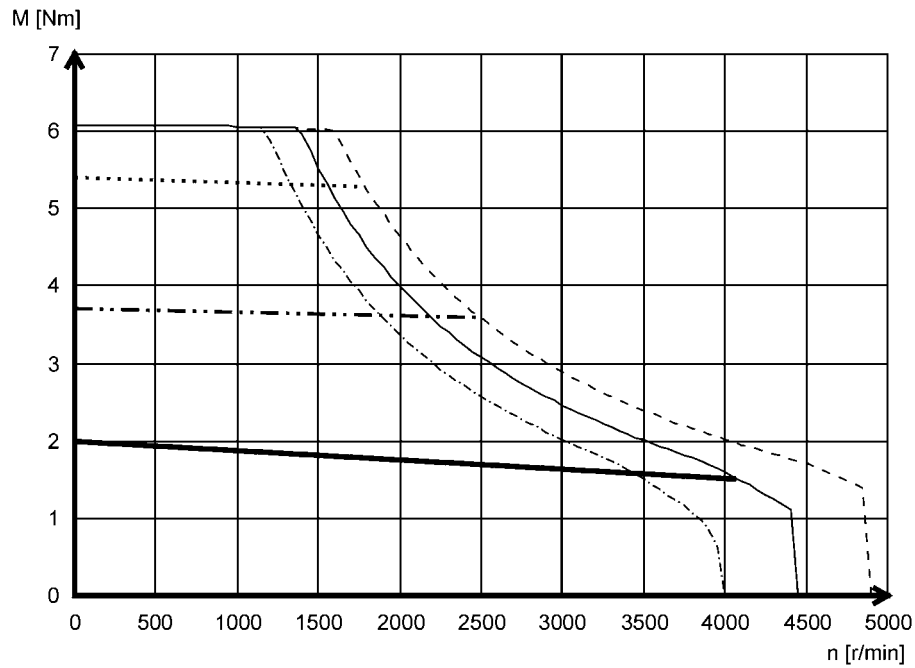
MCS06F60- (self-ventilated)



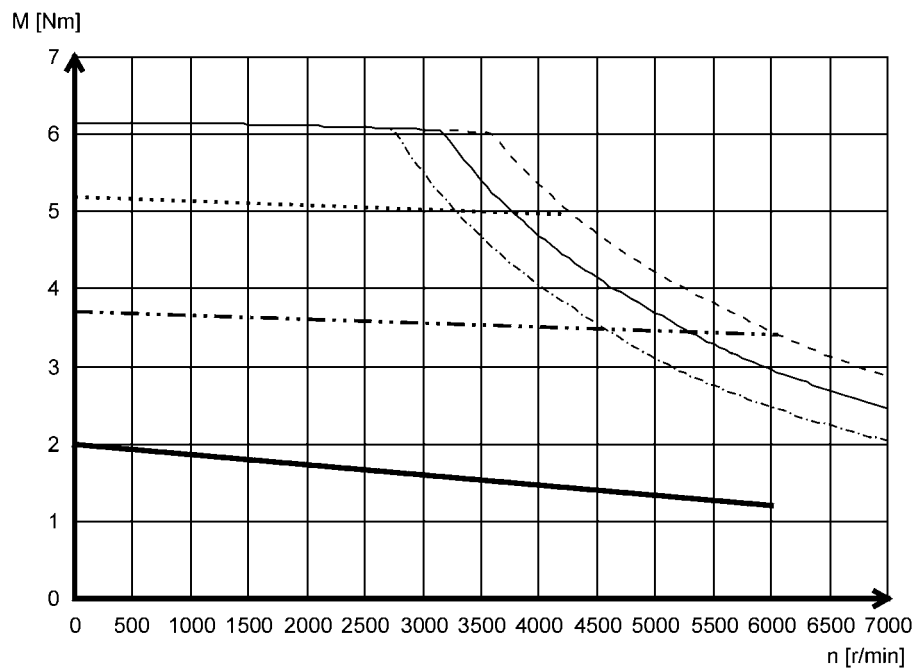
- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · - · - Mmax @ Imax= 2x I₀
- S1



MCS06I41- (self-ventilated)

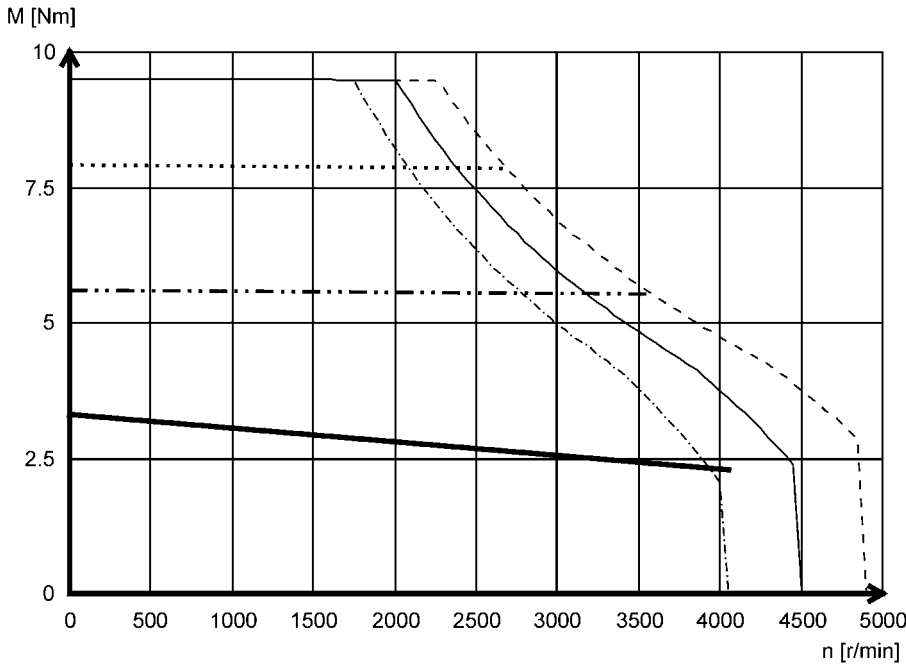


MCS06I60- (self-ventilated)



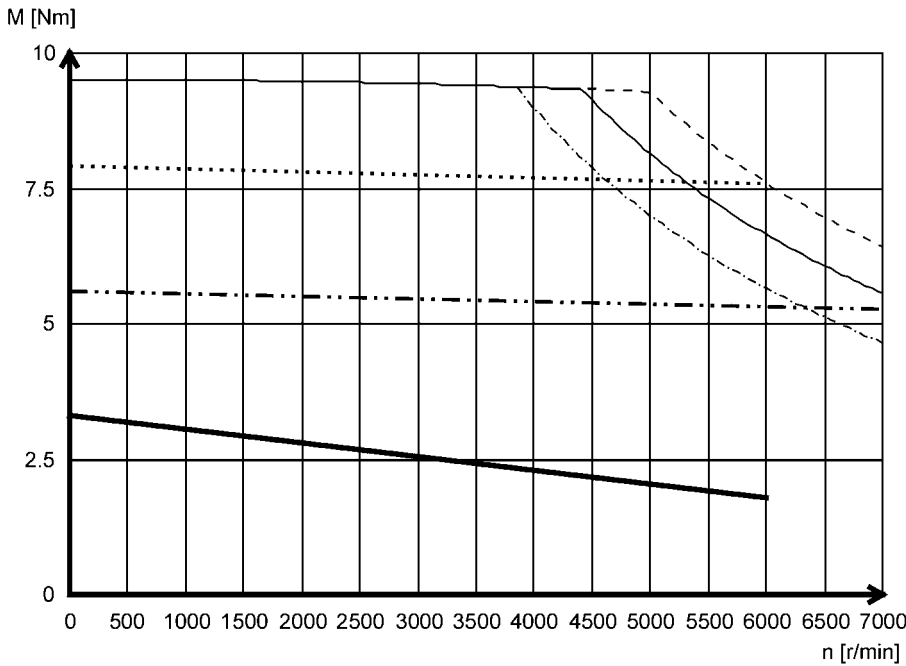


MCS09D41- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ I_{max}= 3x I₀
- · - · - Mmax @ I_{max}= 2x I₀
- S1

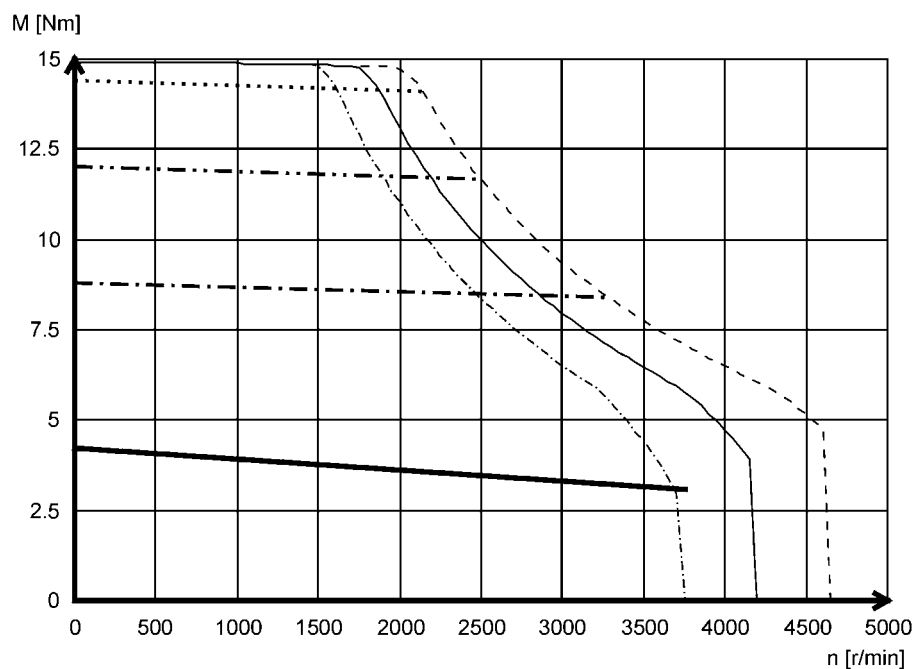
MCS09D60- (self-ventilated)



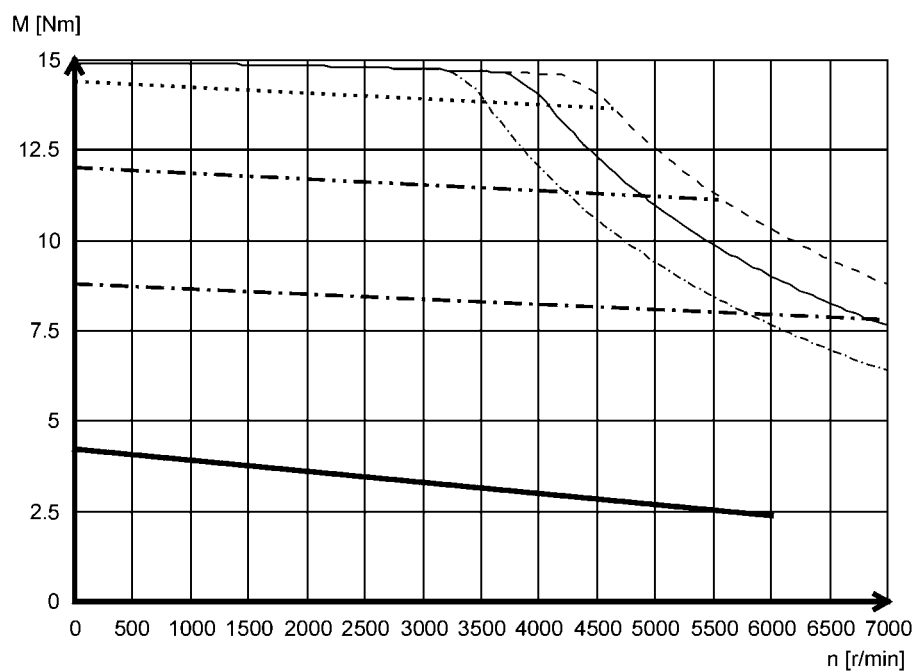
- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ I_{max}= 3x I₀
- · - · - Mmax @ I_{max}= 2x I₀
- S1



MCS09F38- (self-ventilated)

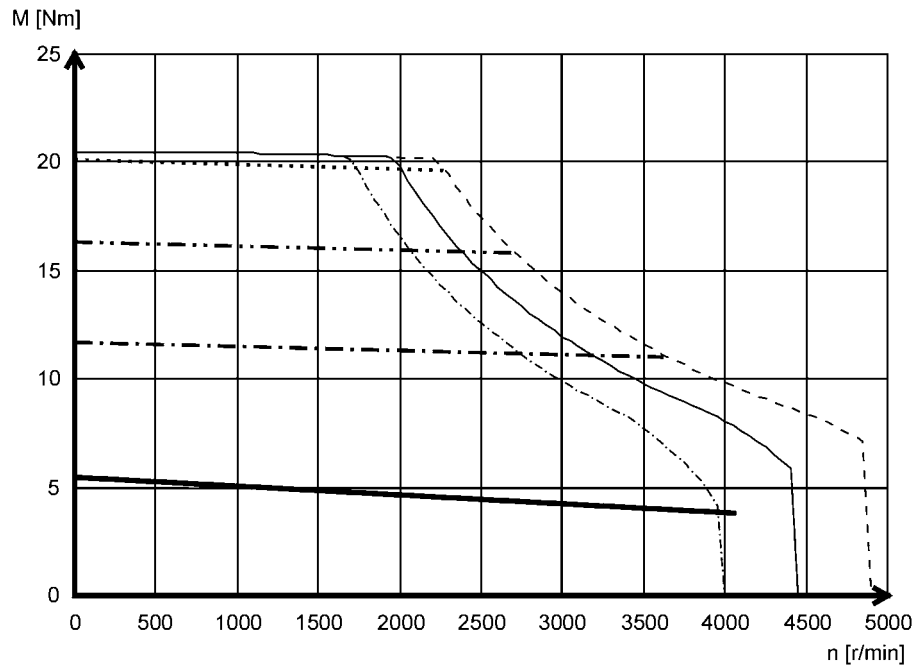


MCS09F60- (self-ventilated)



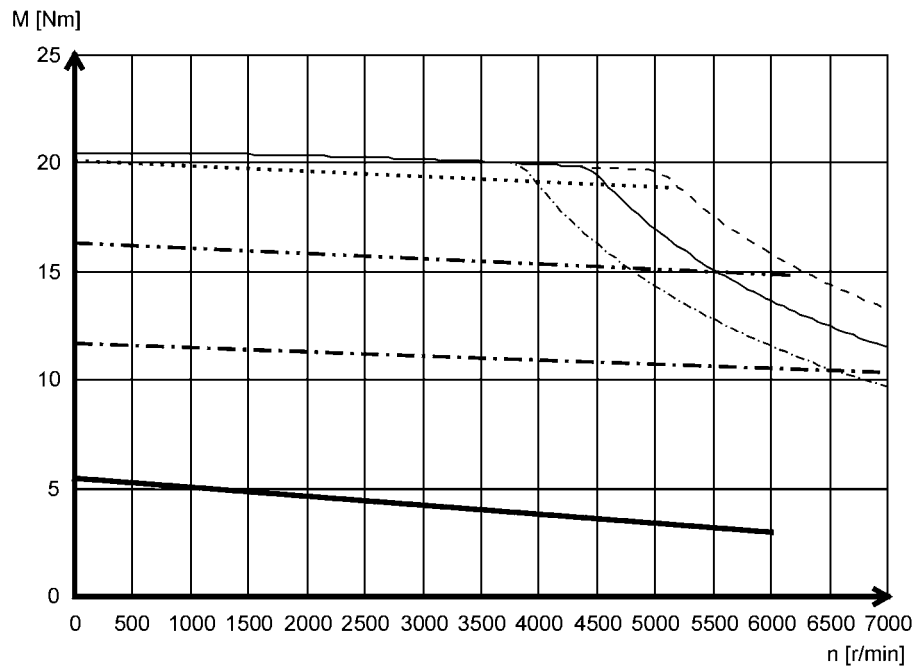


MCS09H41- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ I_{max}= 4x I₀
- · - · - Mmax @ I_{max}= 3x I₀
- · - · - Mmax @ I_{max}= 2x I₀
- S1

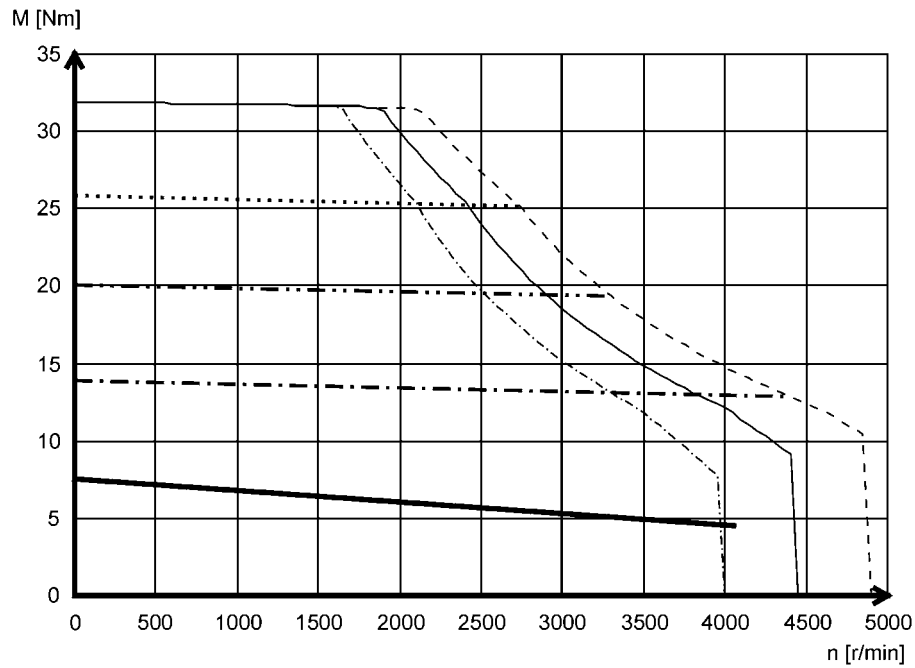
MCS09H60- (self-ventilated)



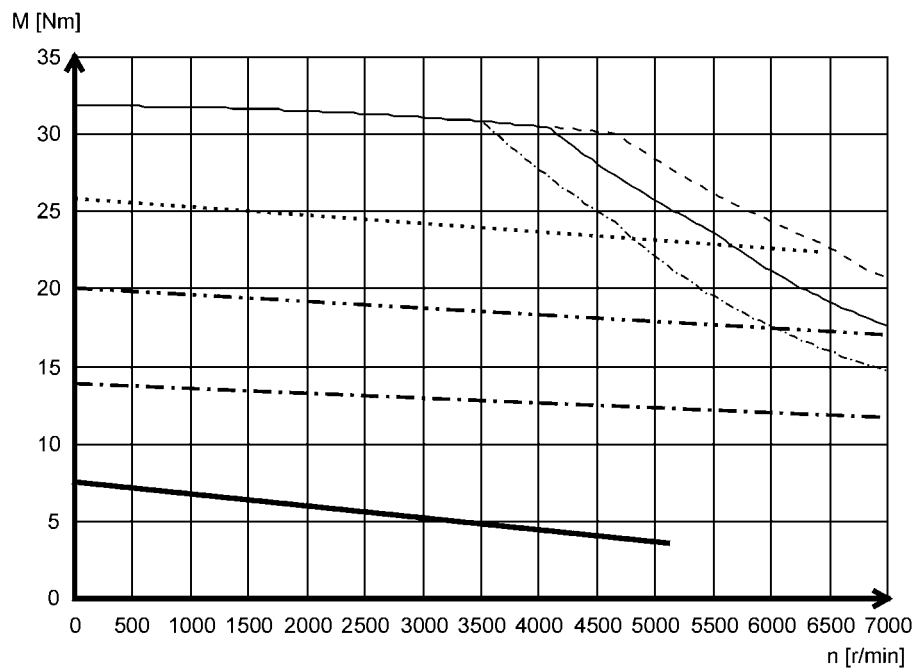
- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ I_{max}= 4x I₀
- · - · - Mmax @ I_{max}= 3x I₀
- · - · - Mmax @ I_{max}= 2x I₀
- S1



MCS09L41- (self-ventilated)

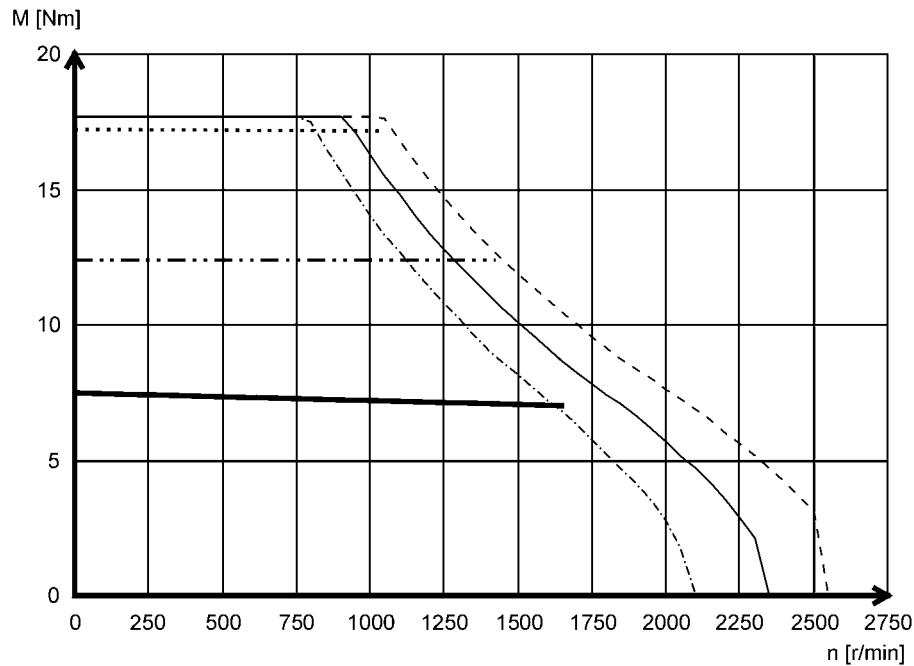


MCS09L51- (self-ventilated)



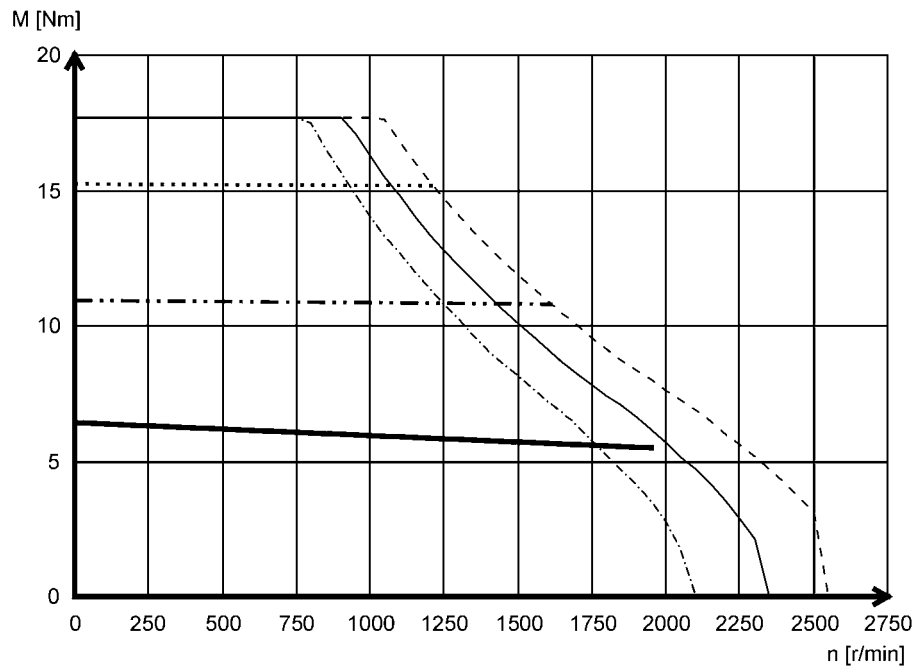


MCS12D17- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 3x I₀
- · · - Mmax @ I_{max}= 2x I₀
- S1

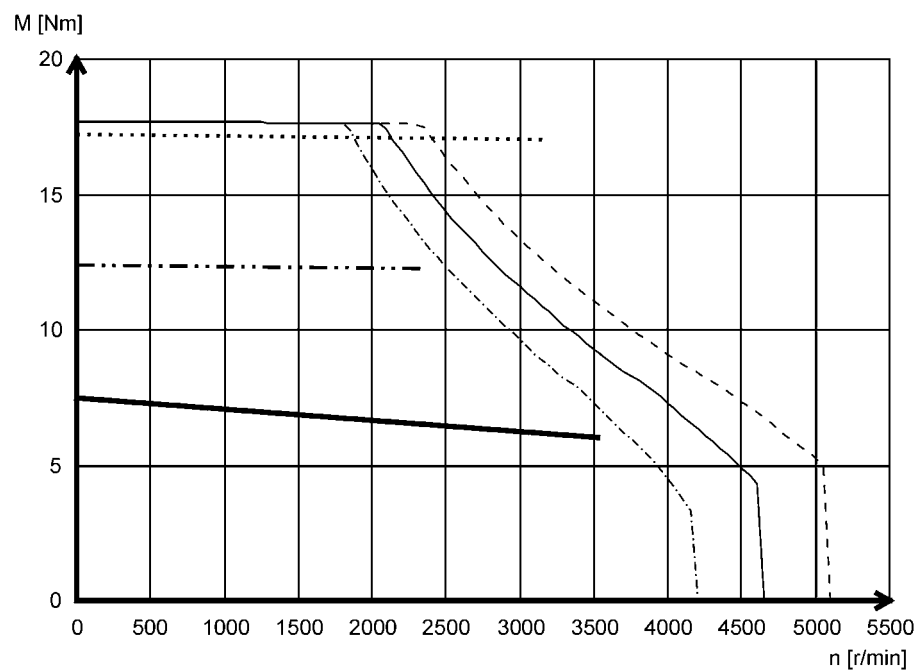
MCS12D20- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 3x I₀
- · · - Mmax @ I_{max}= 2x I₀
- S1

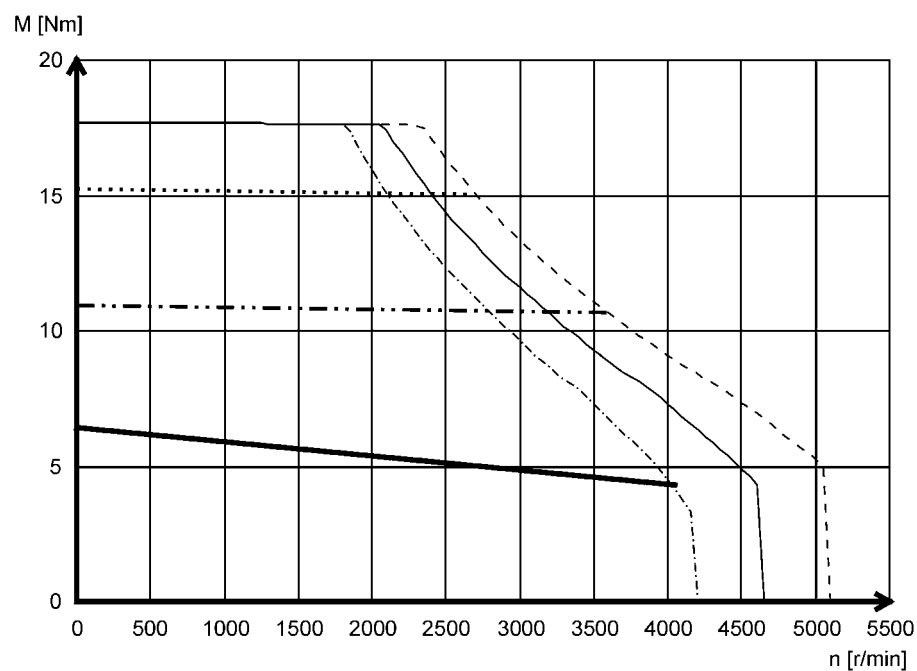


MCS12D35- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · · - Mmax @ Imax= 2x I₀
- S1

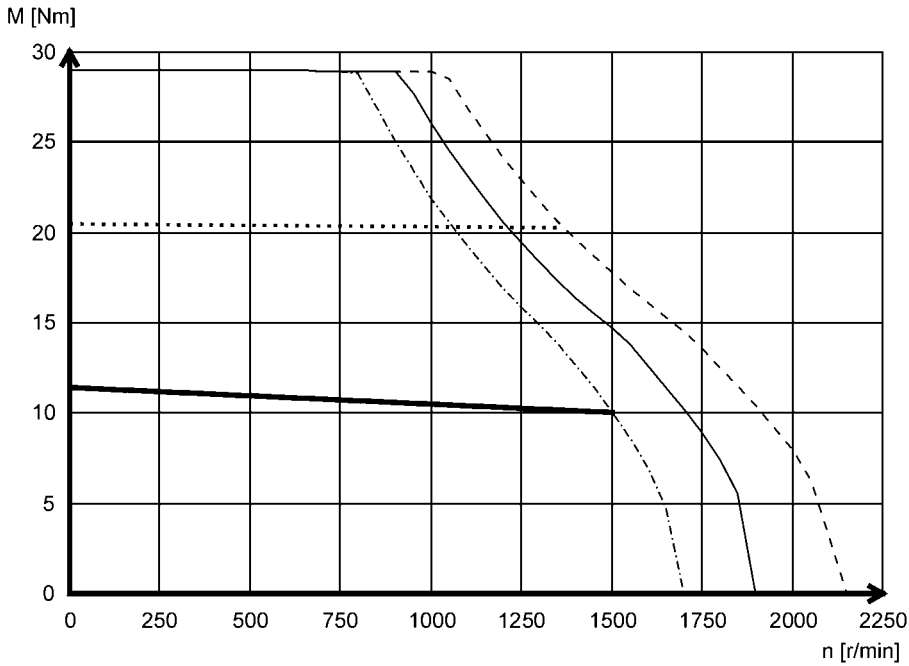
MCS12D41- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · · - Mmax @ Imax= 2x I₀
- S1

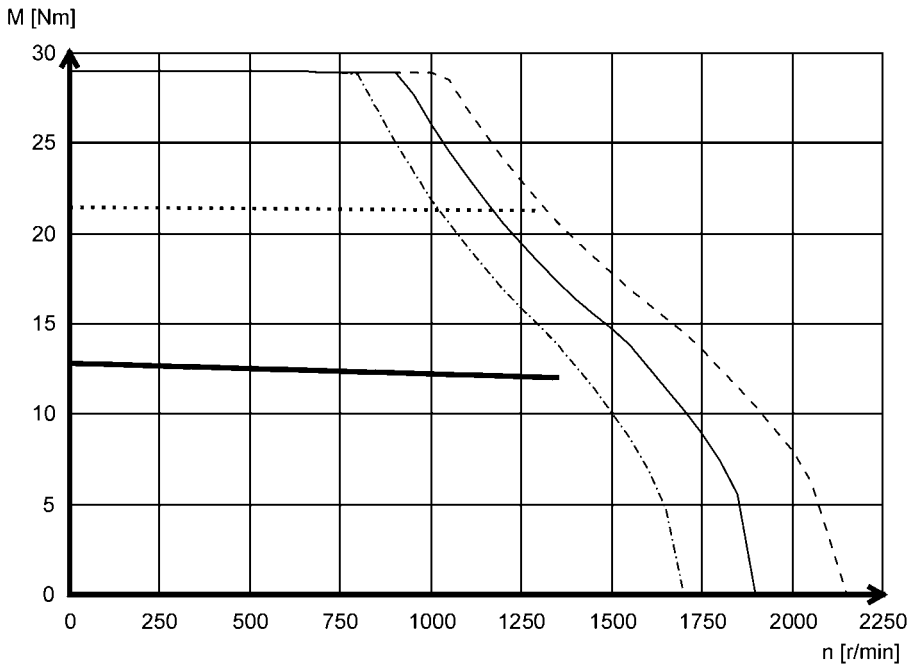


MCS12H15- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 2x I₀
- S1

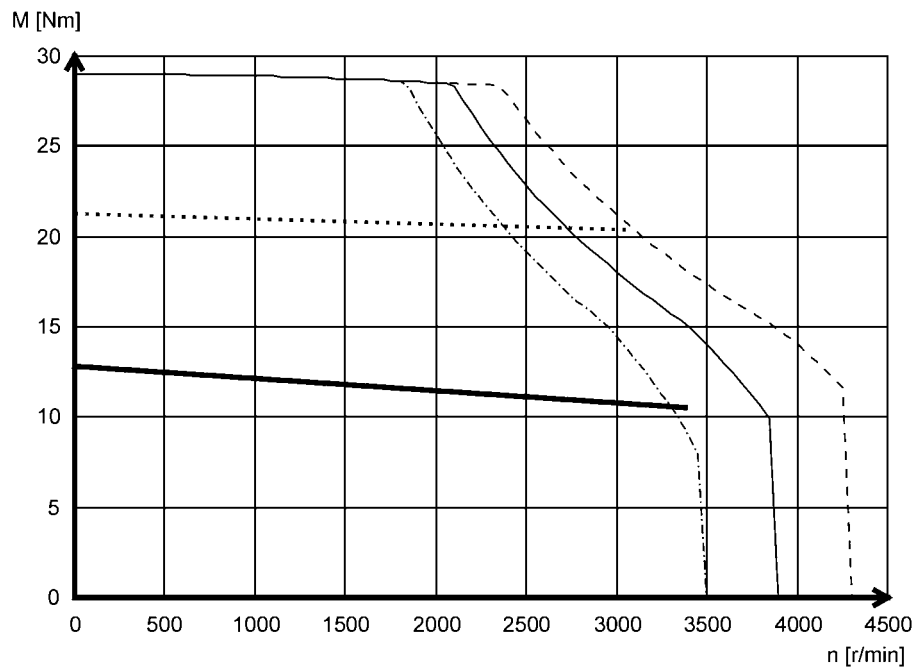
MCS12H14- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 2x I₀
- S1

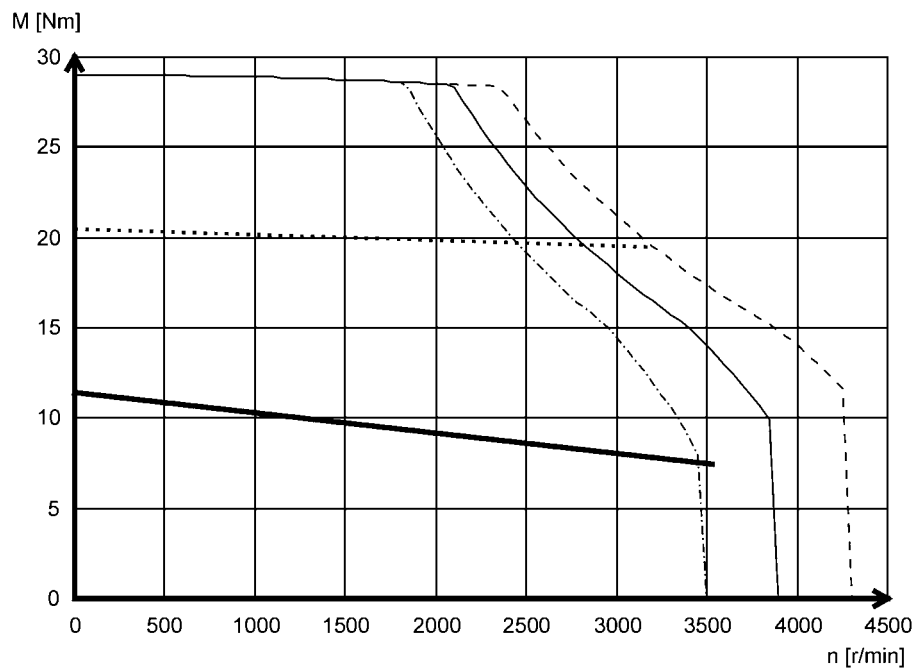


MCS12H34- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max} = 2x I₀
- S1

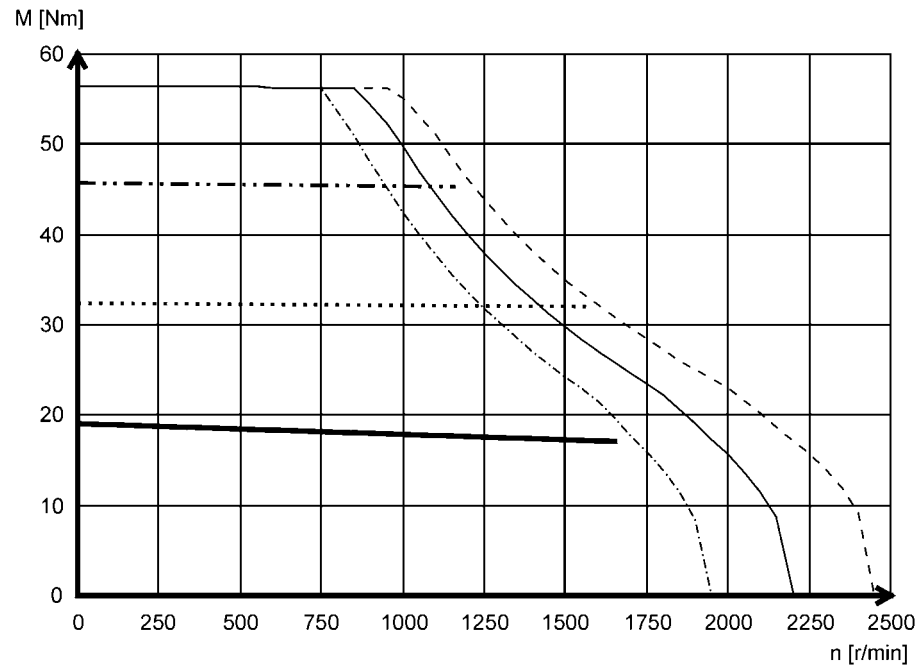
MCS12H35- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max} = 2x I₀
- S1

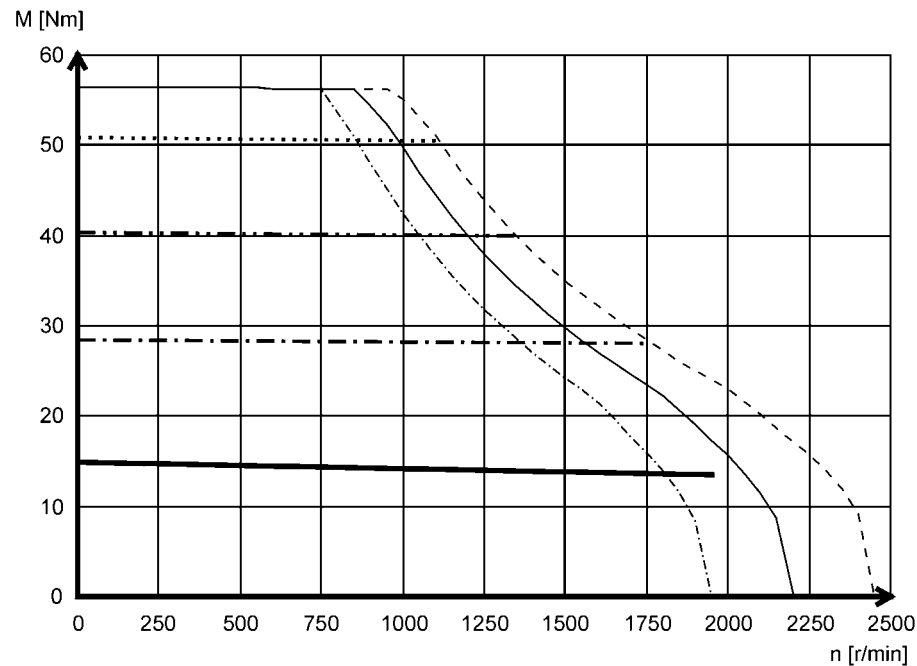


MCS12L17- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- - - - Mmax 360 V
- Mmax @ Imax= 3x I0
- . - . Mmax @ Imax= 2x I0
- S1

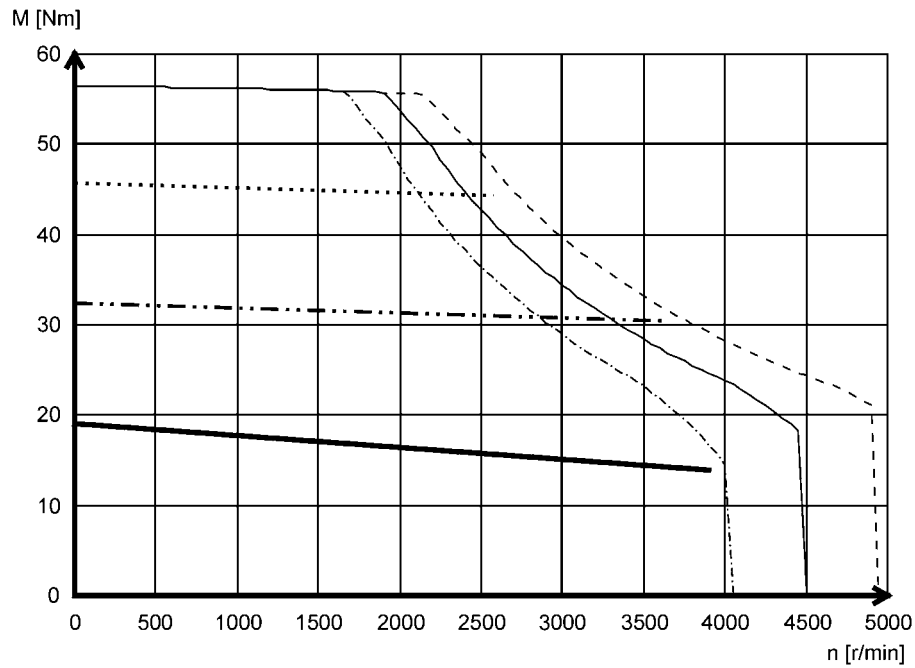
MCS12L20- (self-ventilated)



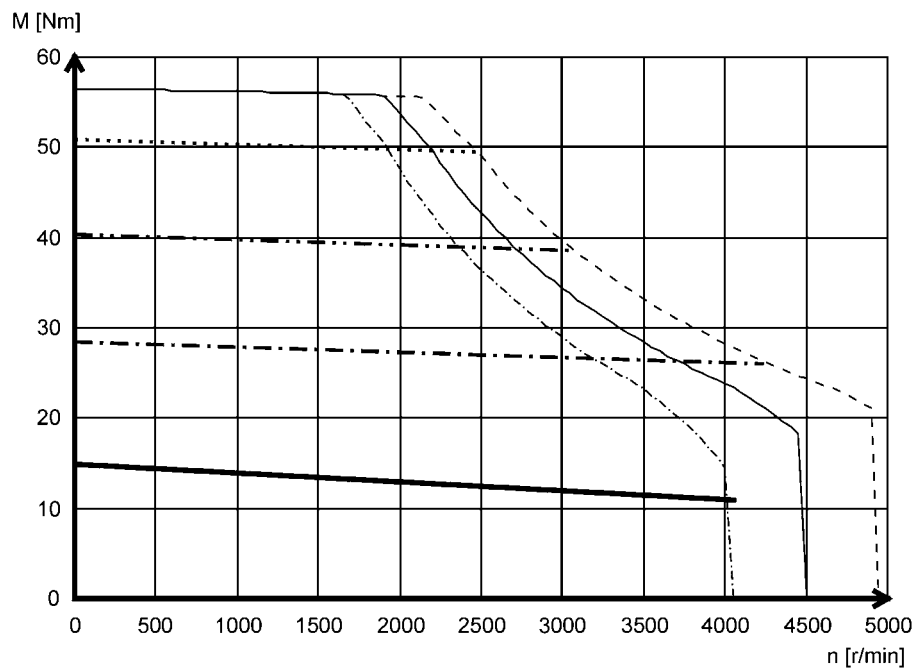
- Mmax 440 V
- Mmax 400 V
- - - - Mmax 360 V
- Mmax @ Imax= 4x I0
- . - . Mmax @ Imax= 3x I0
- . - . Mmax @ Imax= 2x I0
- S1



MCS12L39- (forced ventilated)

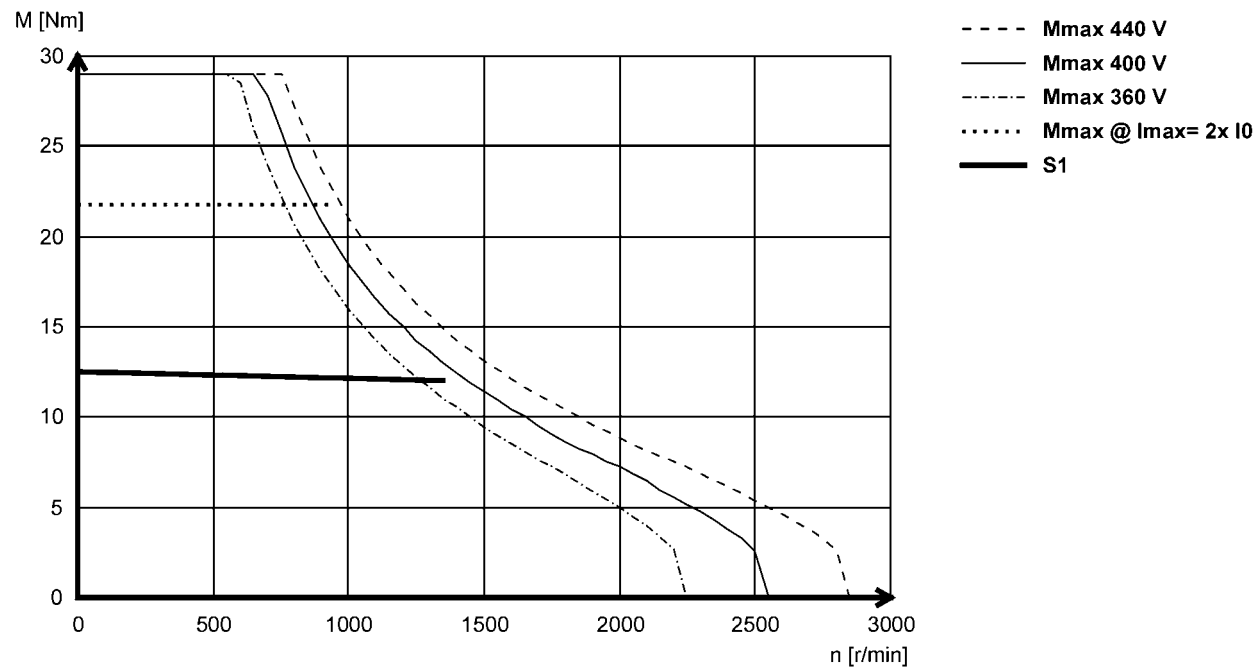


MCS12L41- (self-ventilated)

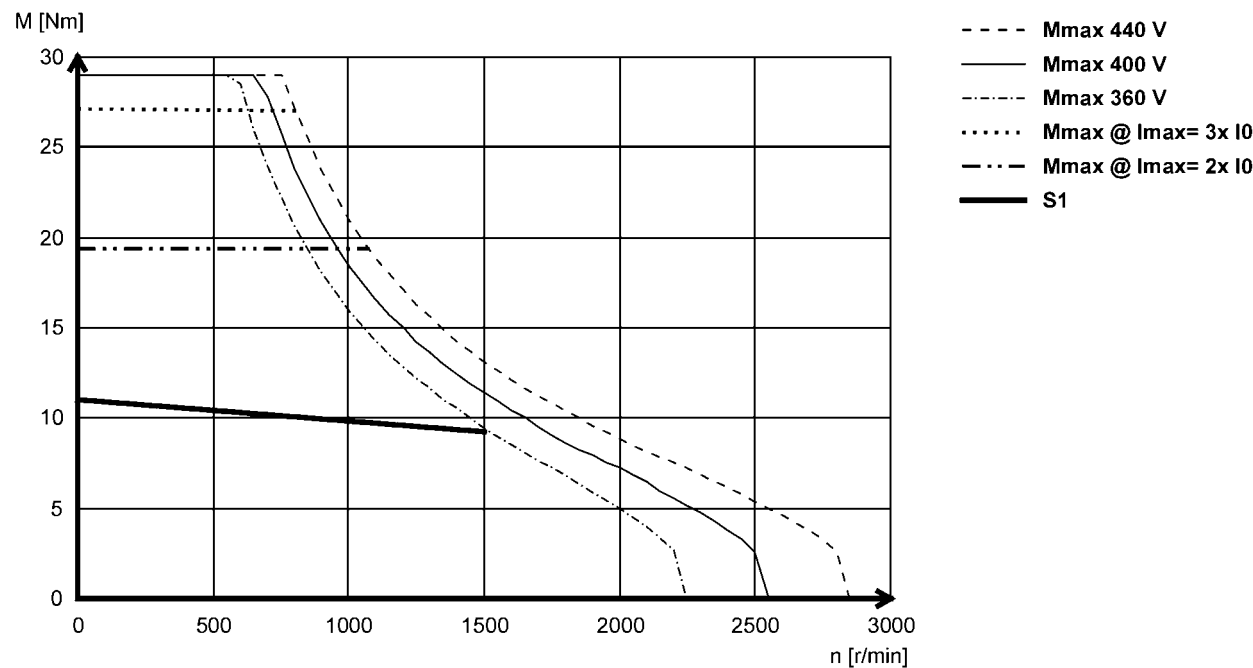




MCS14D14- (forced ventilated)

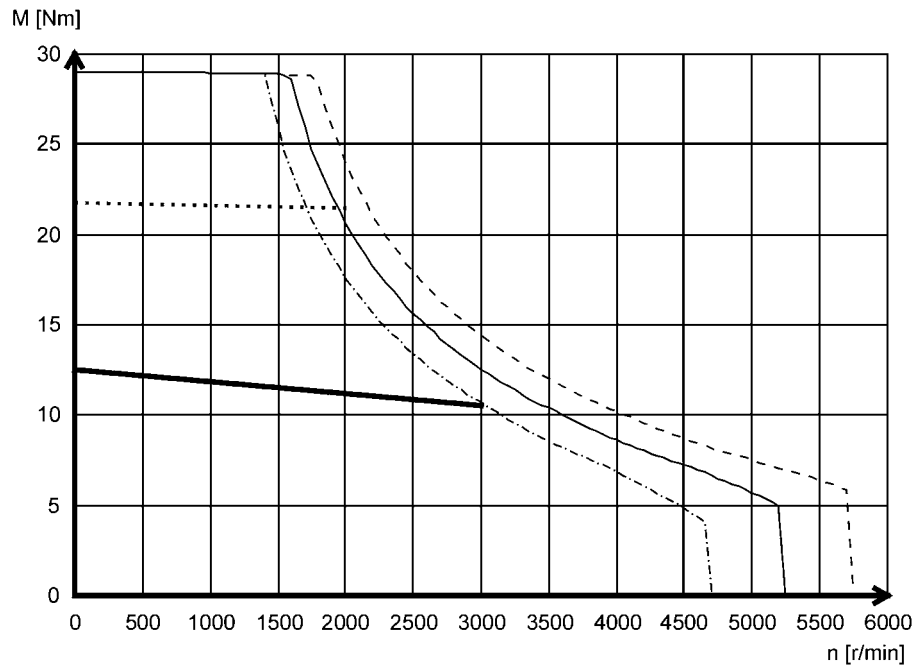


MCS14D15- (self-ventilated)

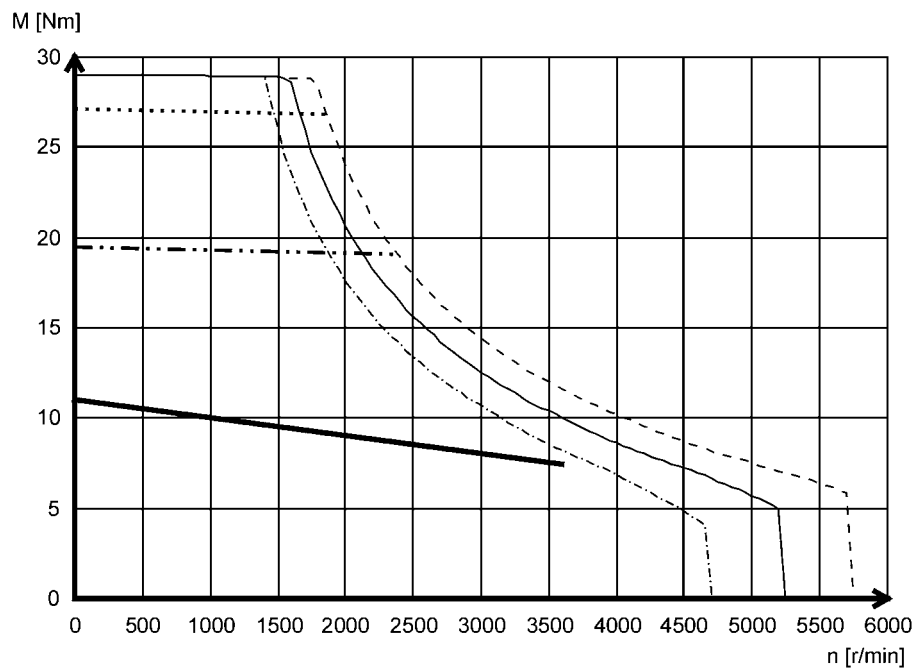




MCS14D30- (forced ventilated)

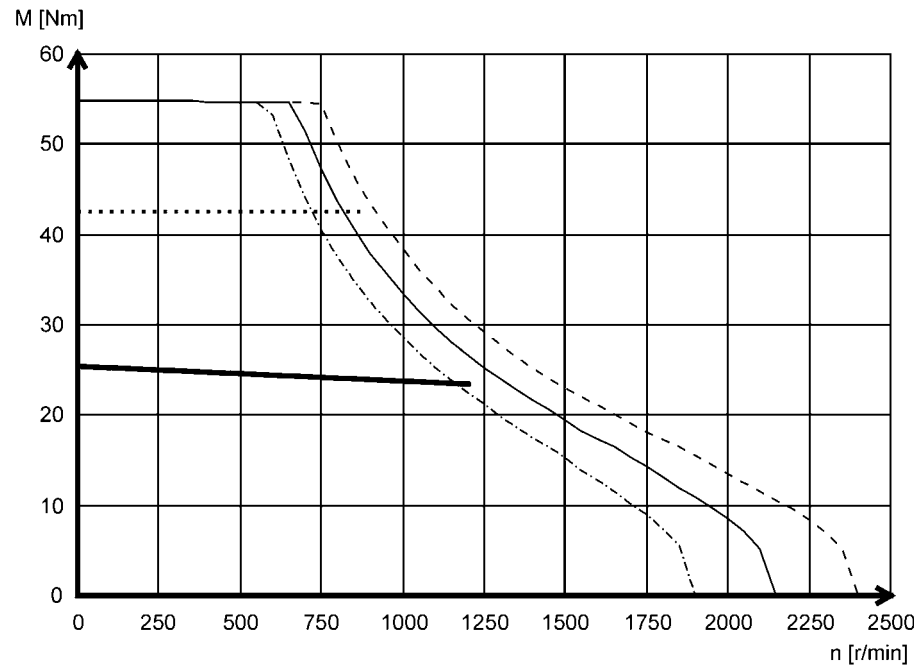


MCS14D36- (self-ventilated)

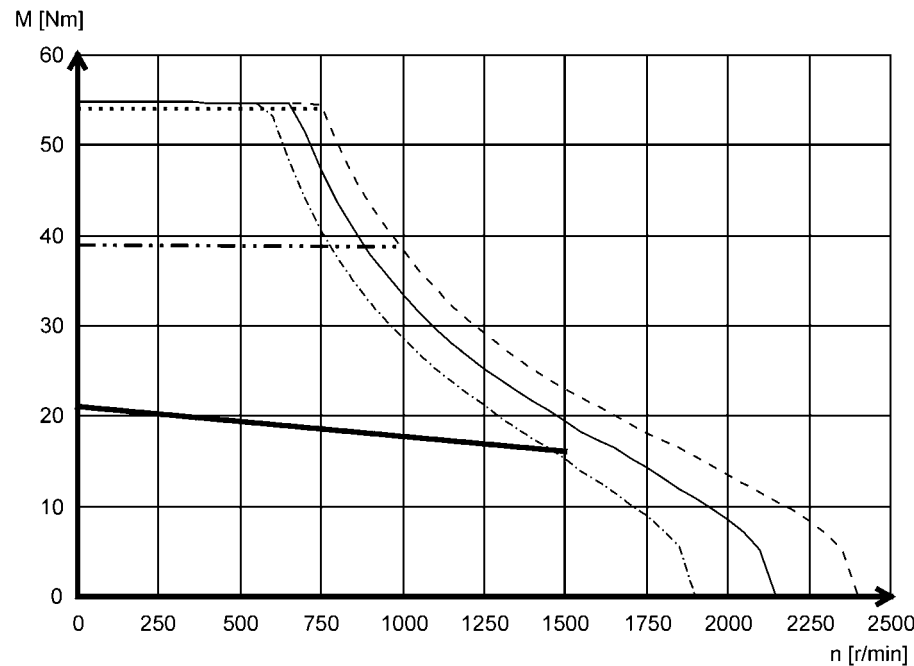




MCS14H12- (forced ventilated)

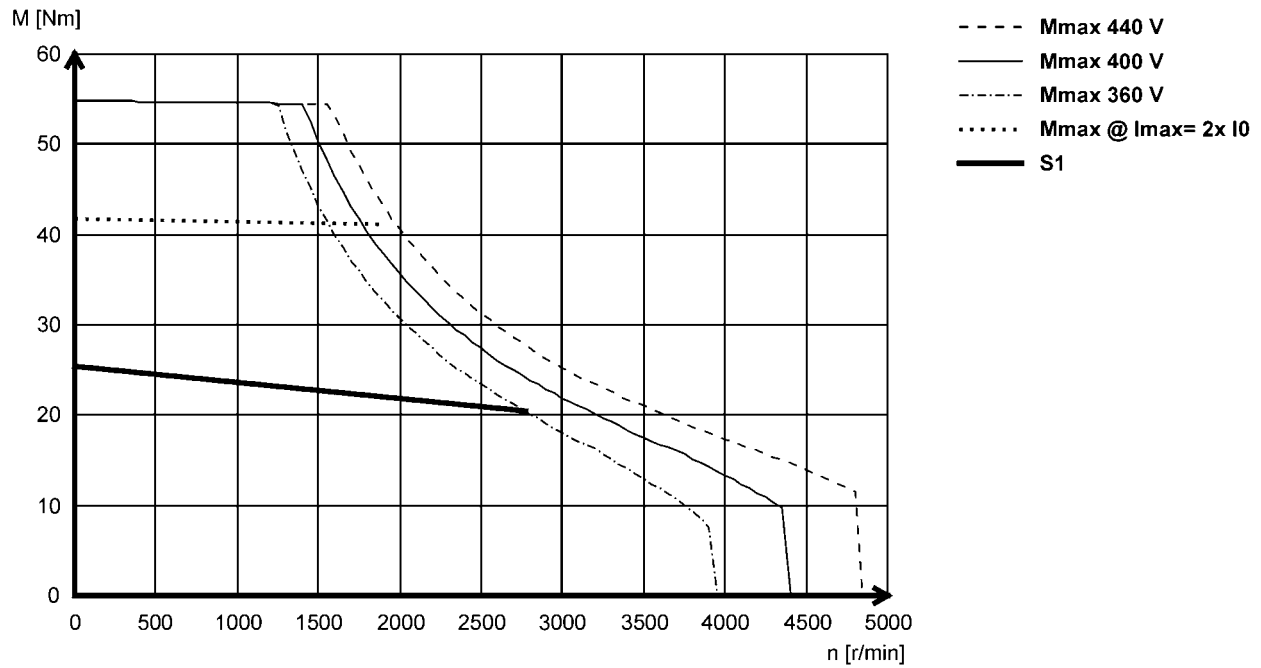


MCS14H15- (self-ventilated)

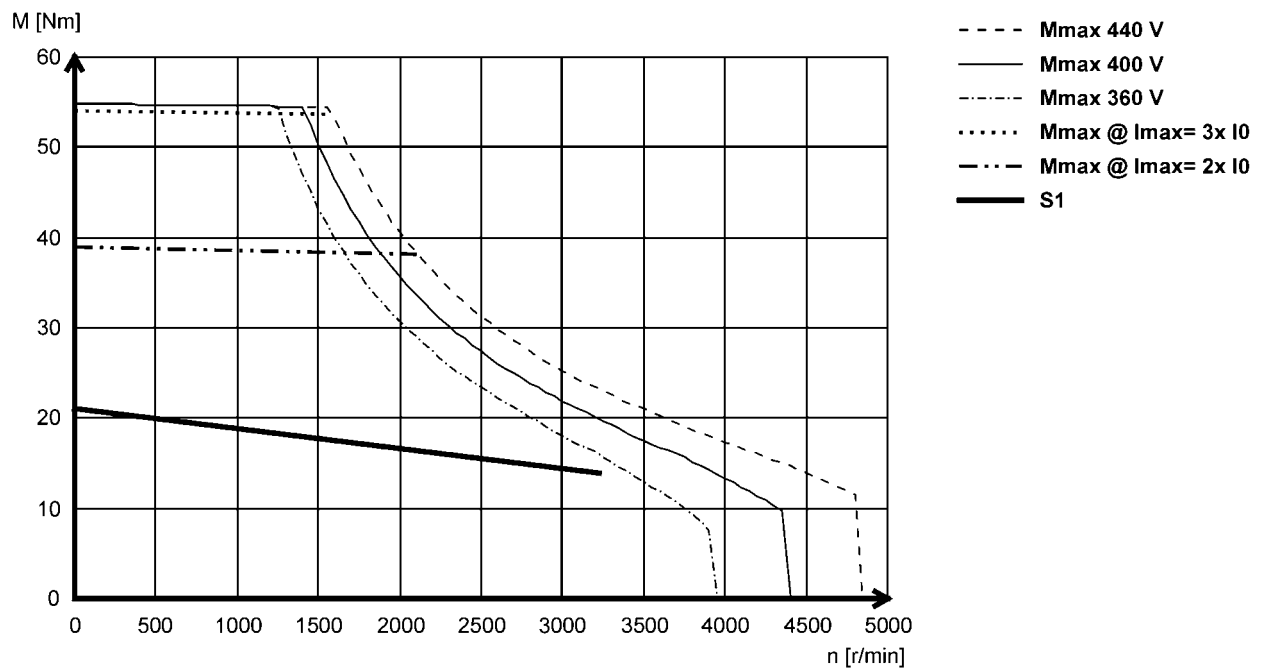




MCS14H28- (forced ventilated)

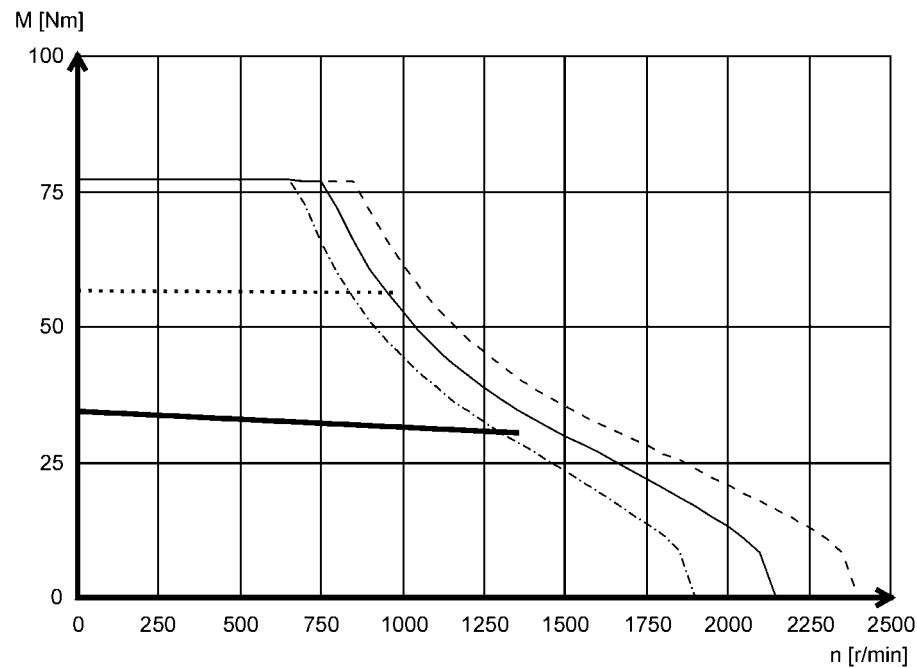


MCS14H32- (self-ventilated)



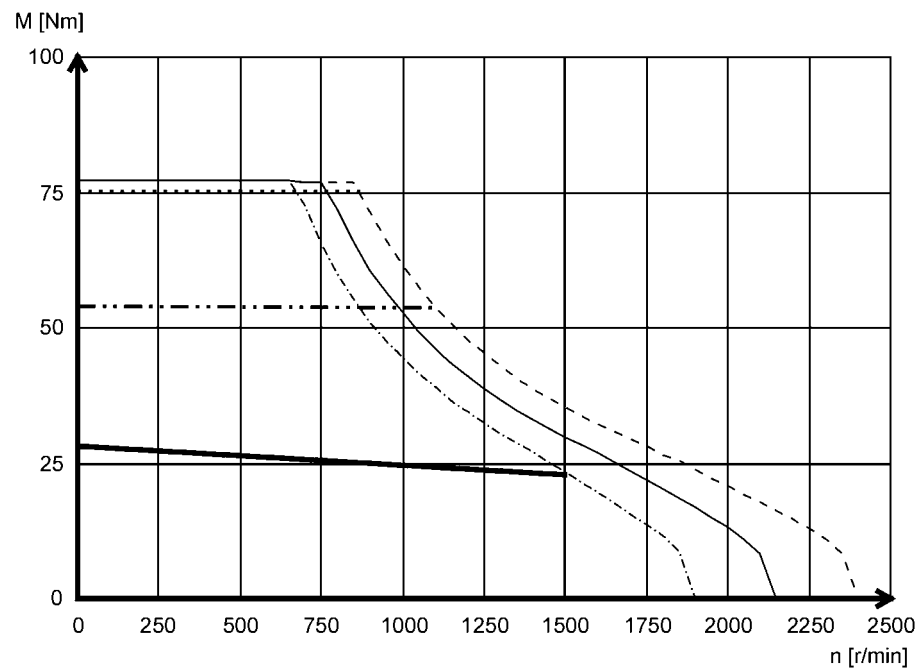


MCS14L14- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 2x I0
- S1

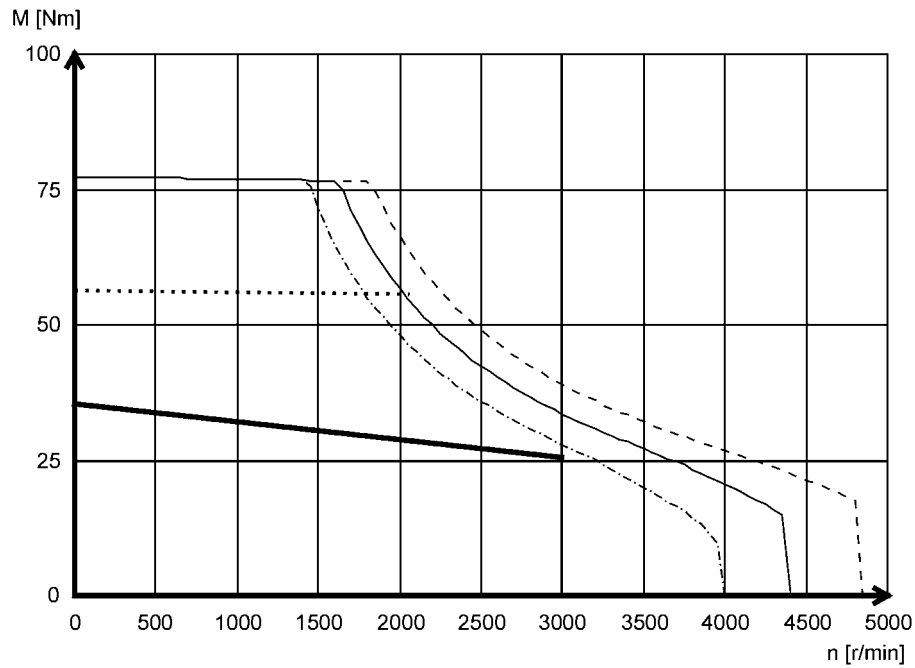
MCS14L15- (self-ventilated)



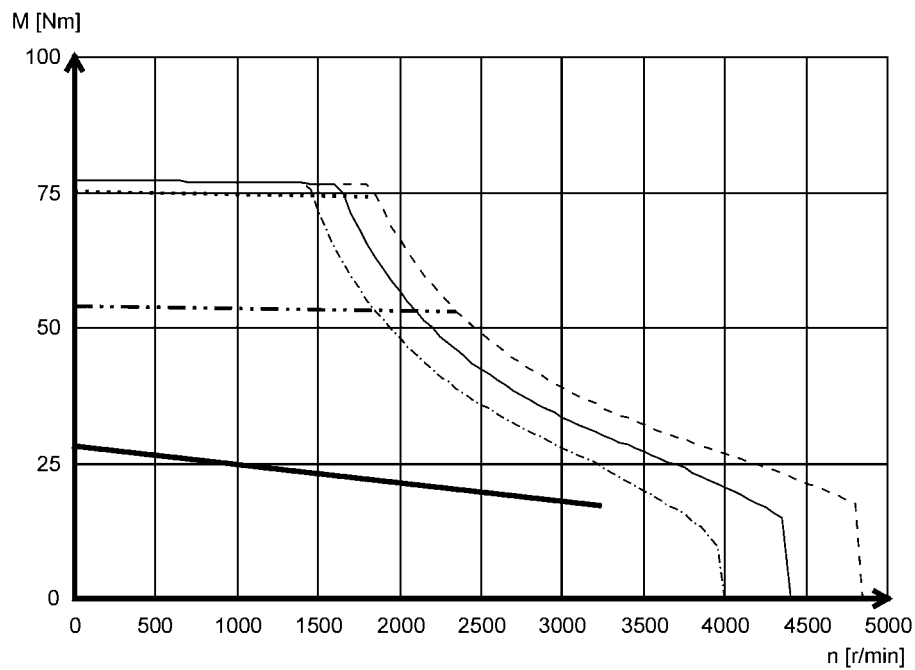
- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I0
- · - · - Mmax @ Imax= 2x I0
- S1



MCS14L30- (forced ventilated)

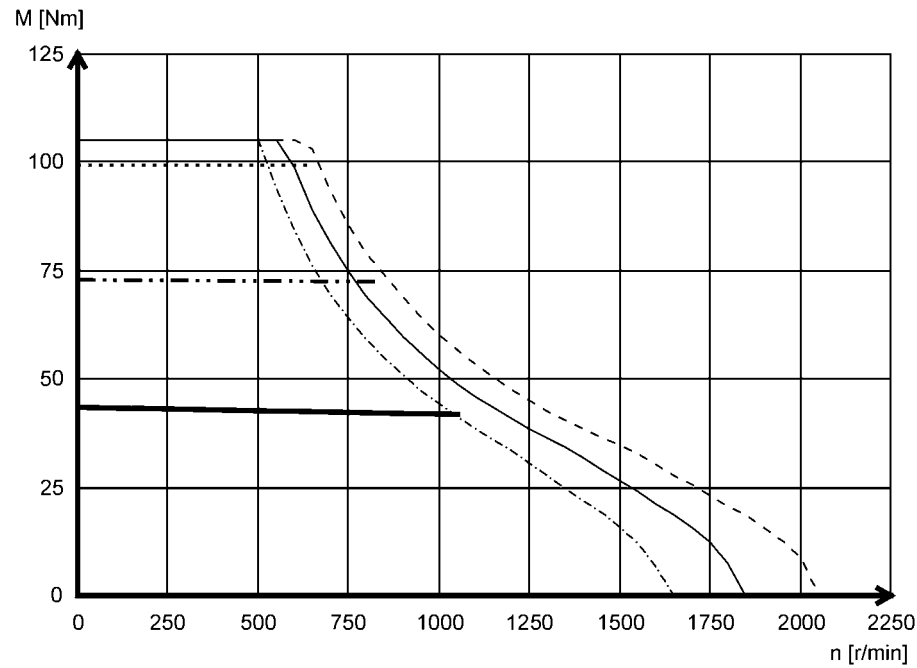


MCS14L32- (self-ventilated)



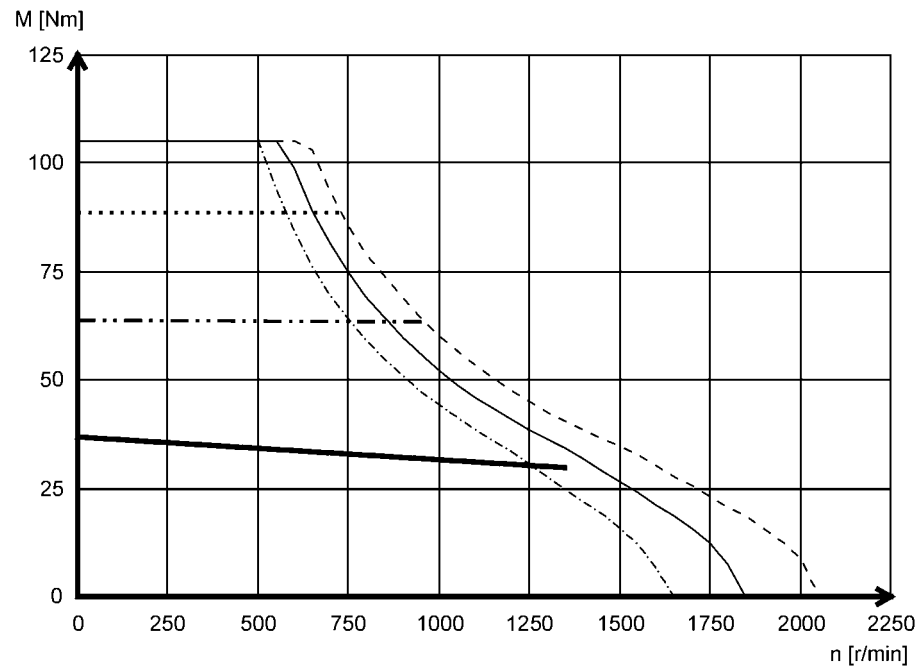


MCS14P11- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · - · - Mmax @ Imax= 2x I₀
- S1

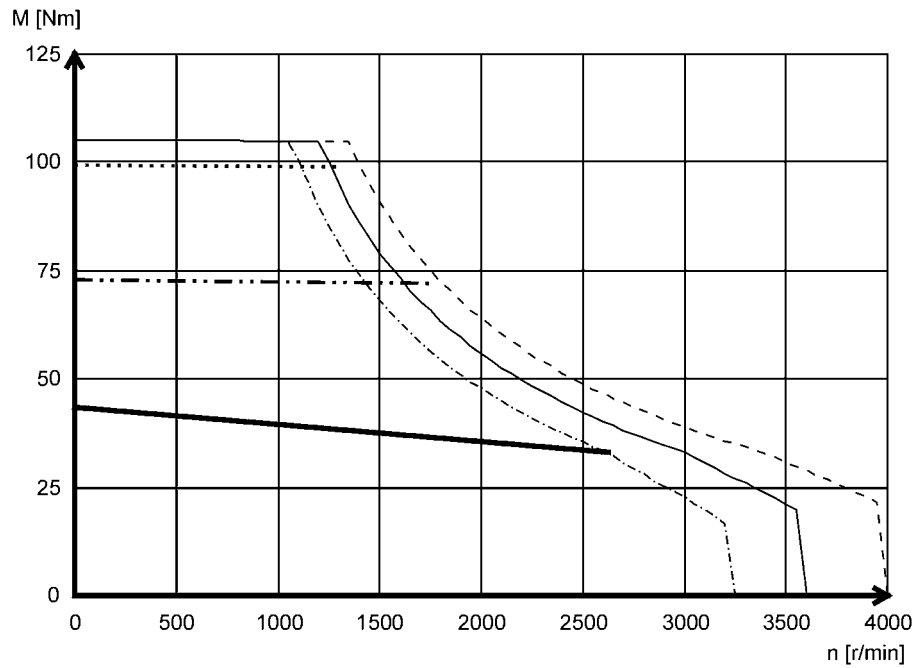
MCS14P14- (self-ventilated)



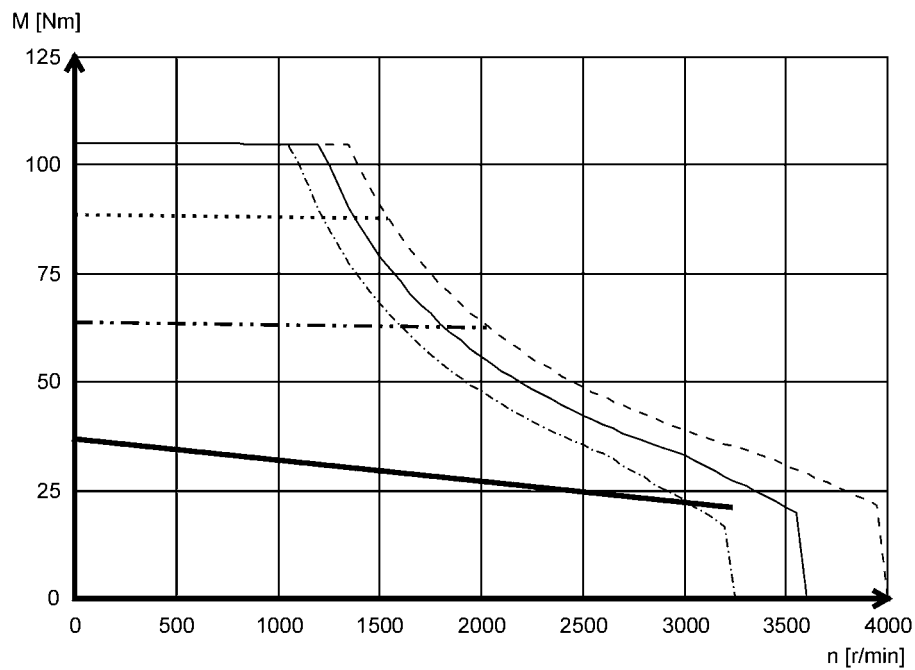
- Mmax 440 V
- Mmax 400 V
- · - · - Mmax 360 V
- Mmax @ Imax= 3x I₀
- · - · - Mmax @ Imax= 2x I₀
- S1



MCS14P26- (forced ventilated)

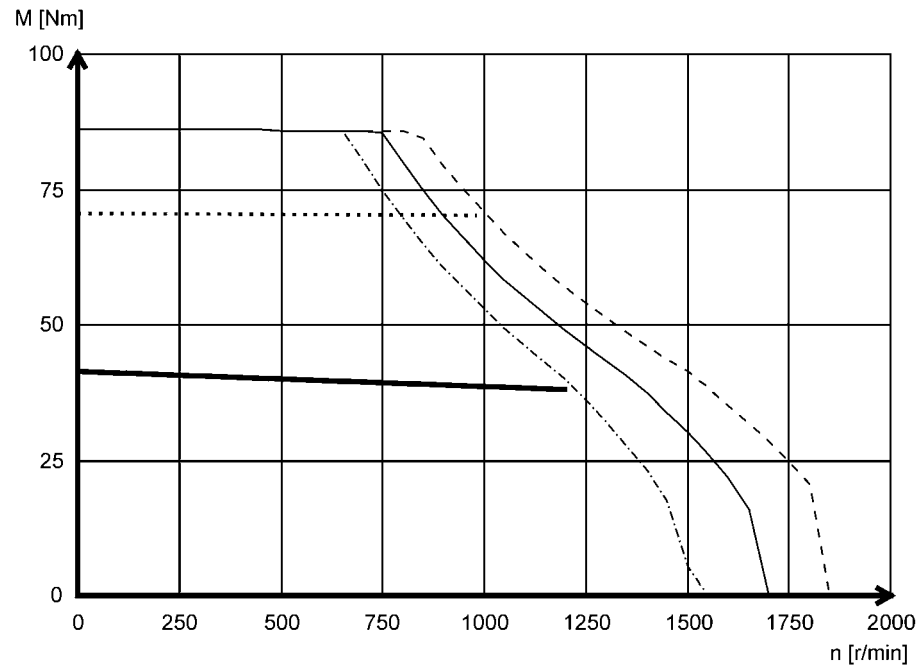


MCS14P32- (self-ventilated)



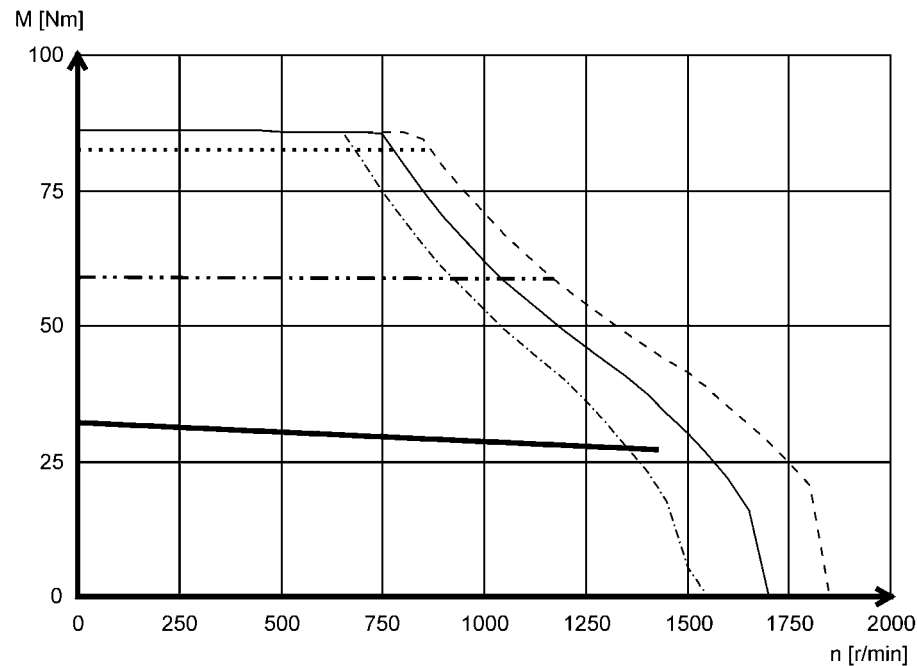


MCS19F12- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 2x I₀
- S1

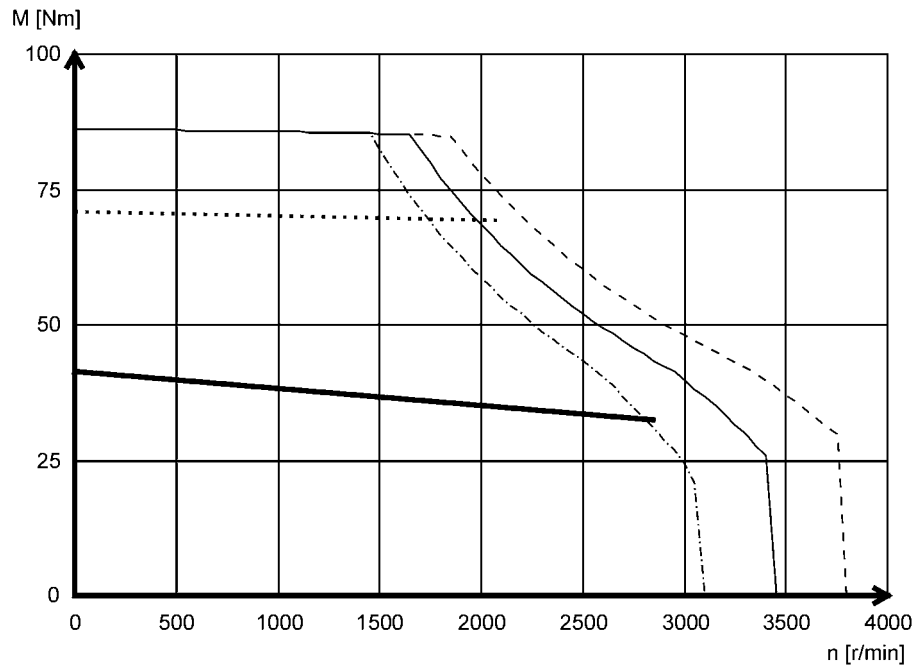
MCS19F14- (self-ventilated)



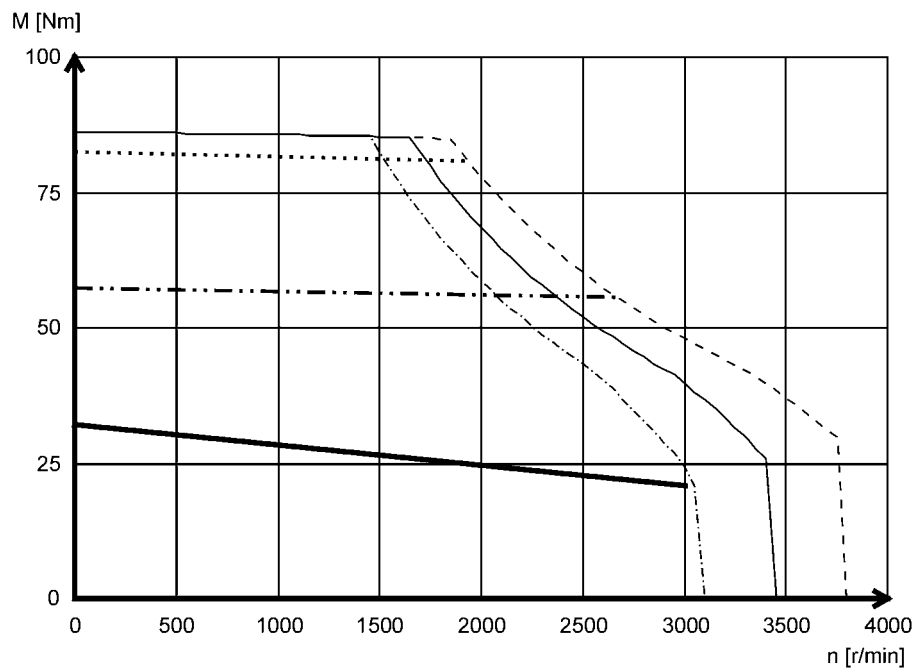
- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ I_{max}= 3x I₀
- · · Mmax @ I_{max}= 2x I₀
- S1



MCS19F29- (forced ventilated)

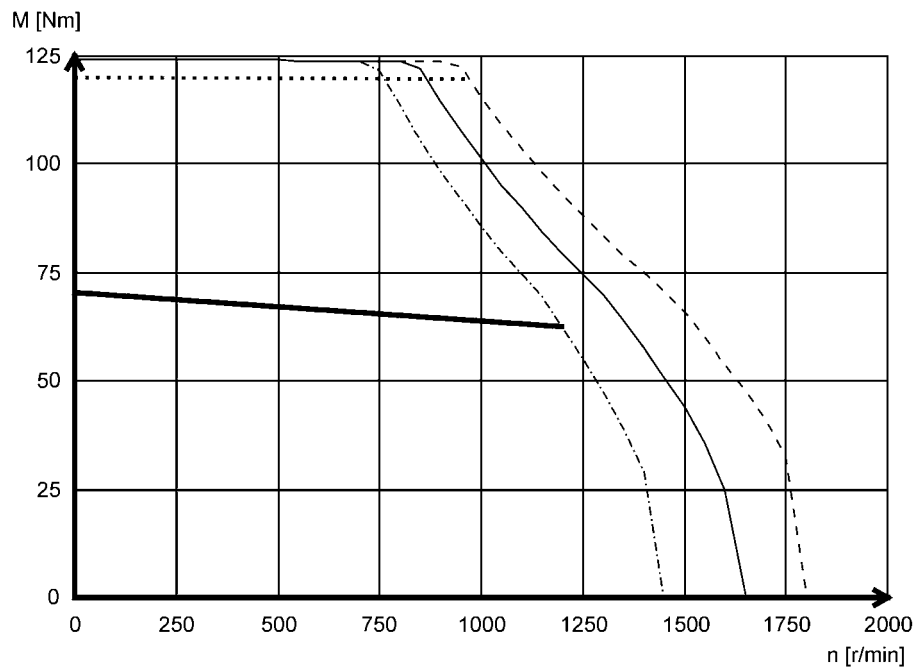


MCS19F30- (self-ventilated)



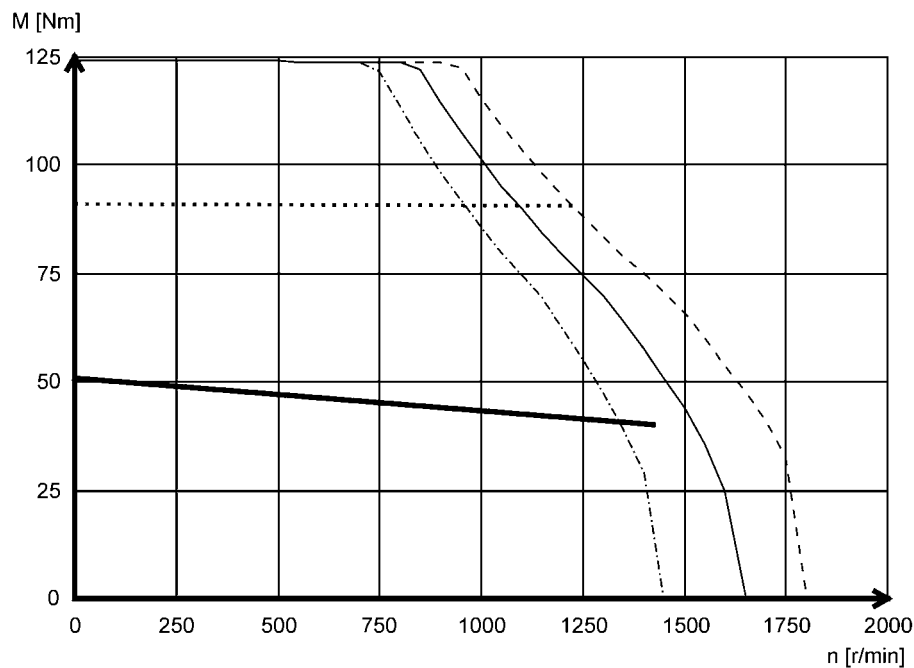


MCS19J12- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ Imax= 2x I0
- S1

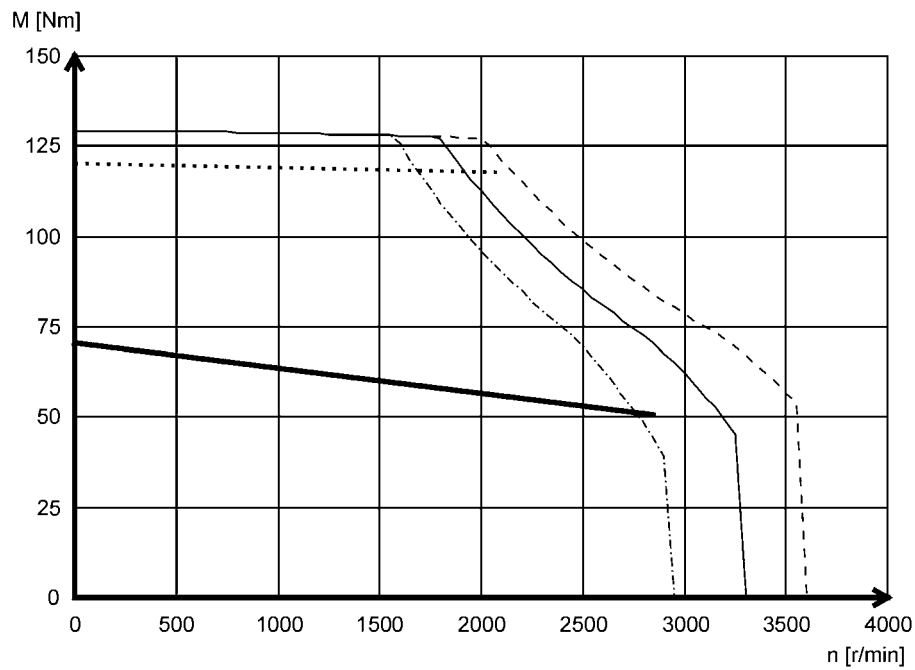
MCS19J14- (self-ventilated)



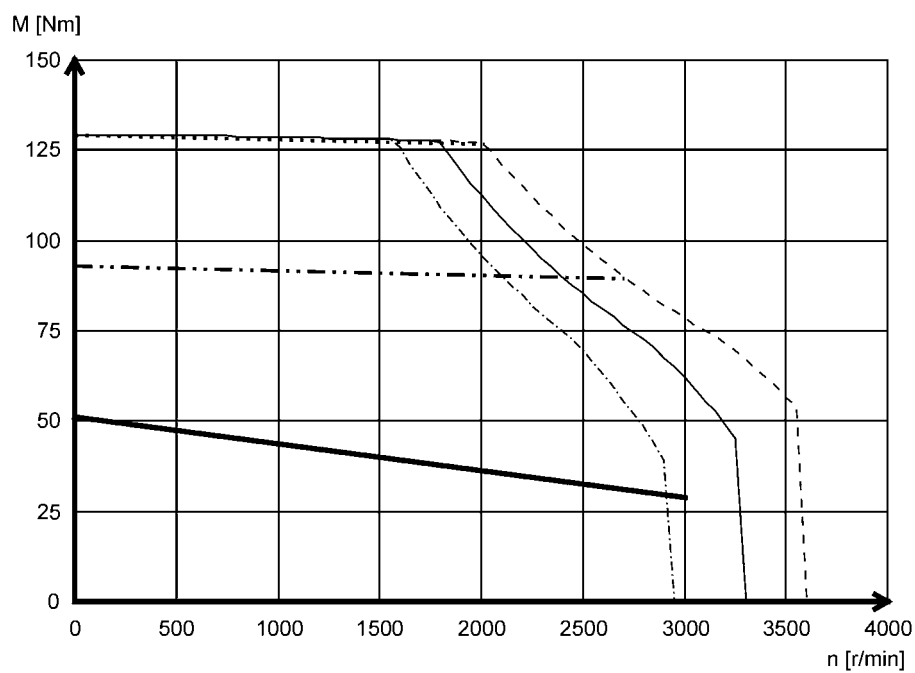
- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ Imax= 2x I0
- S1



MCS19J29- (forced ventilated)

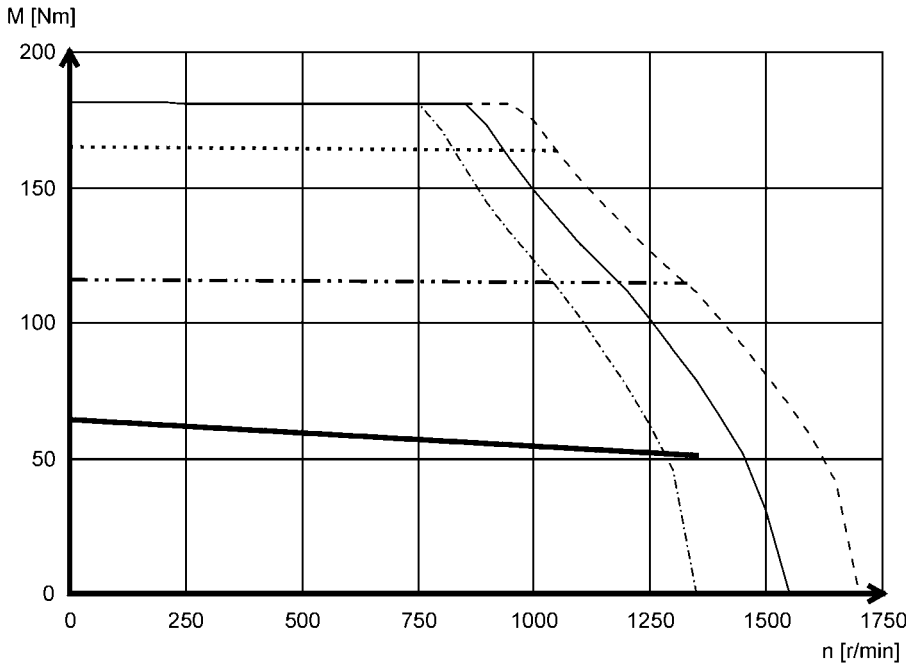


MCS19J30- (self-ventilated)



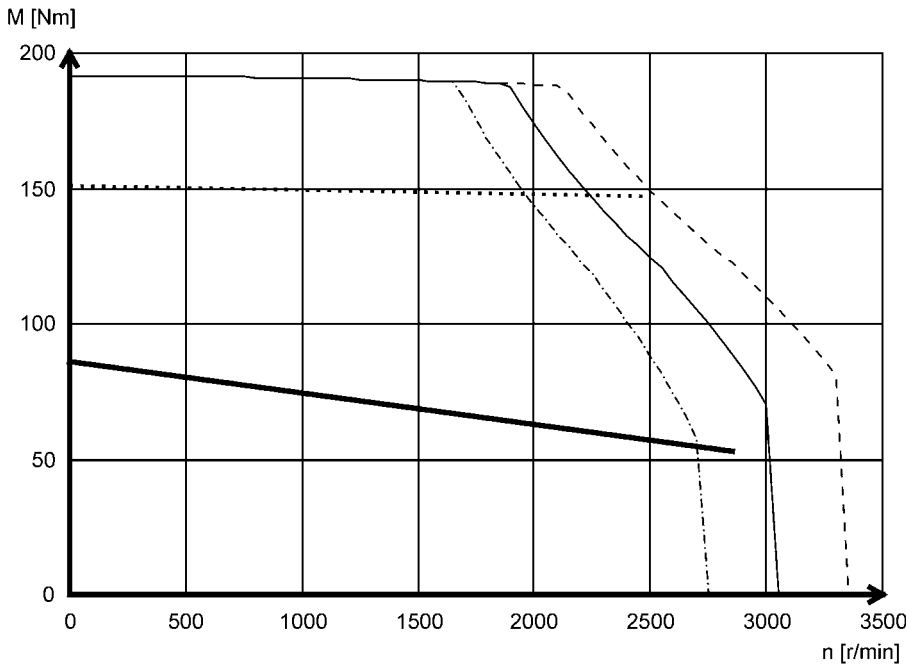


MCS19P14- (self-ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ Imax= 3x I0
- · · Mmax @ Imax= 2x I0
- S1

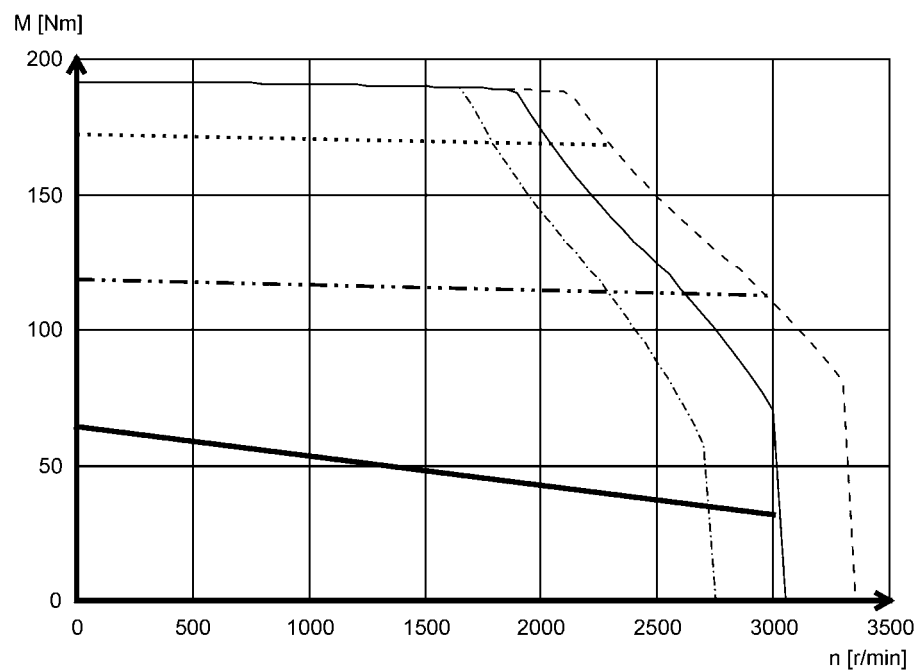
MCS19P29- (forced ventilated)



- Mmax 440 V
- Mmax 400 V
- · - Mmax 360 V
- Mmax @ Imax= 2x I0
- S1



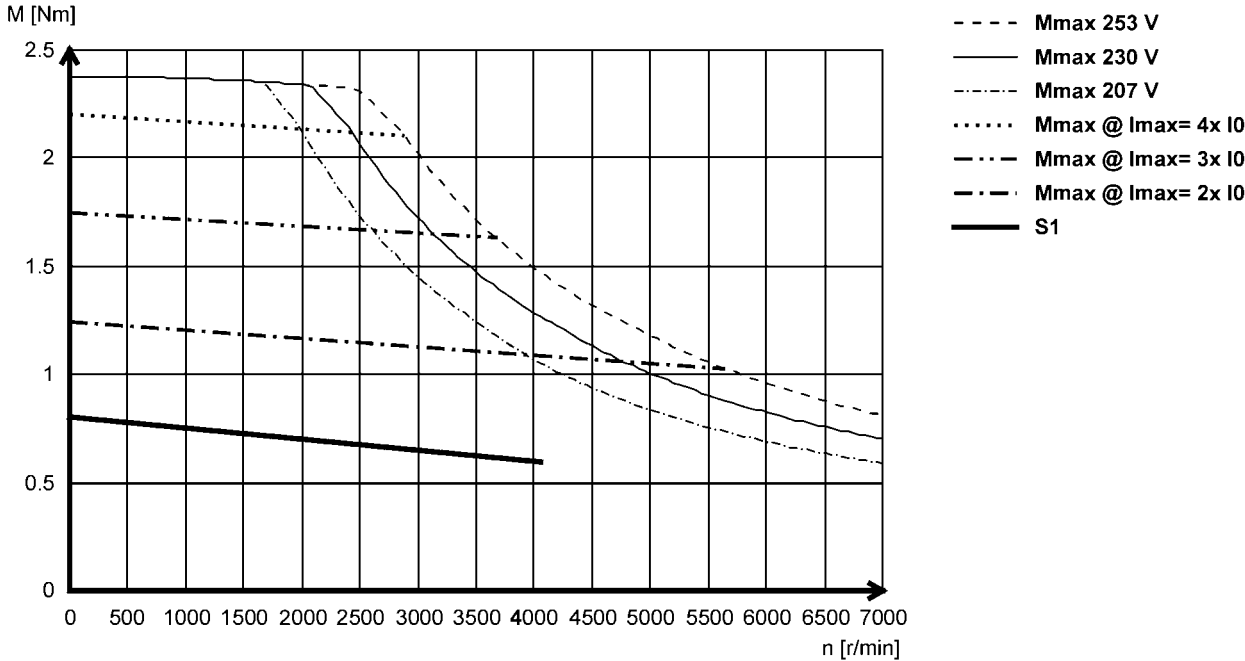
MCS19P30- (self-ventilated)



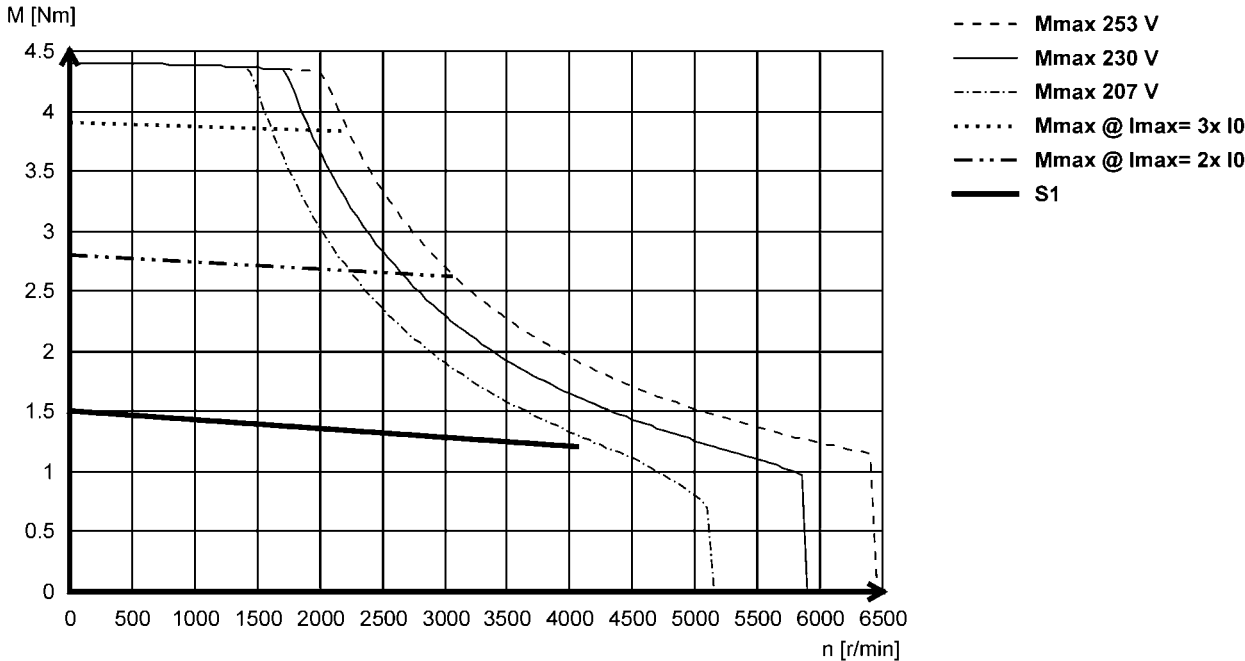


The following data apply to an inverter mains voltage 3 x 230 V.

MCS06C41L (self-ventilated)

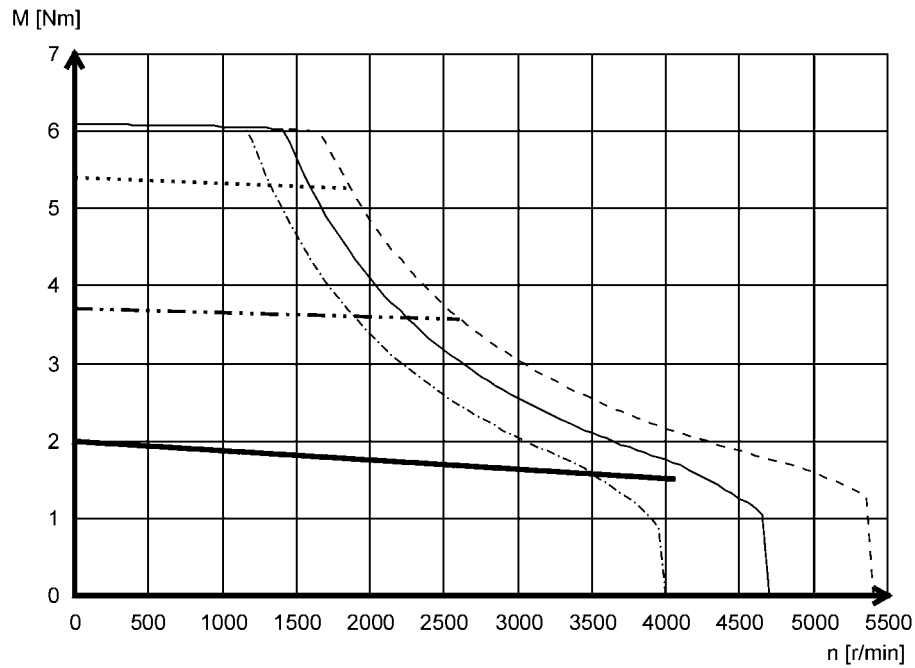


MCS06F41L (self-ventilated)



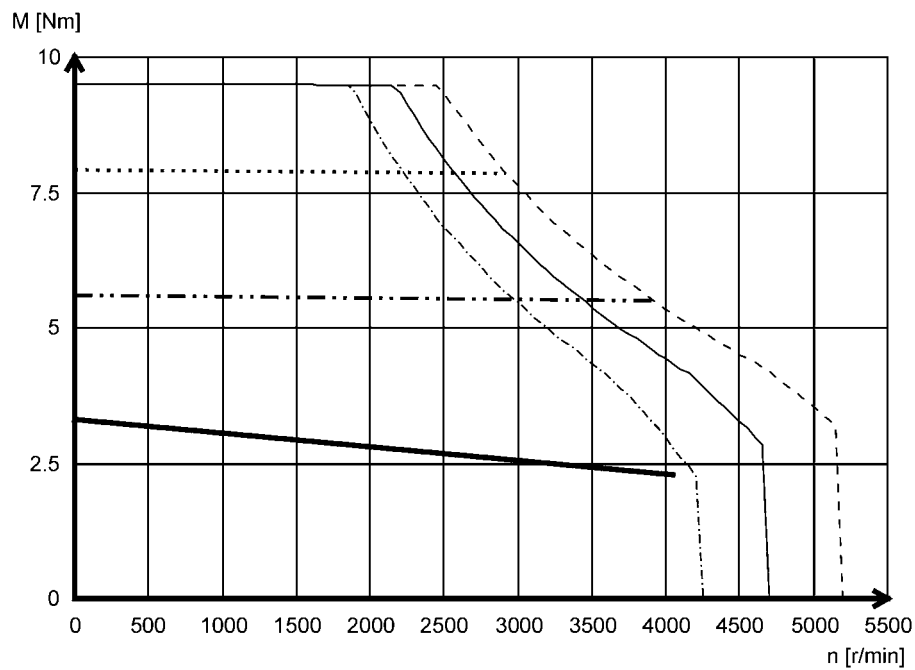


MCS06I41L (self-ventilated)



- Mmax 253 V
- Mmax 230 V
- · - · - Mmax 207 V
- Mmax @ Imax= 3x I₀
- Mmax @ Imax= 2x I₀
- S1

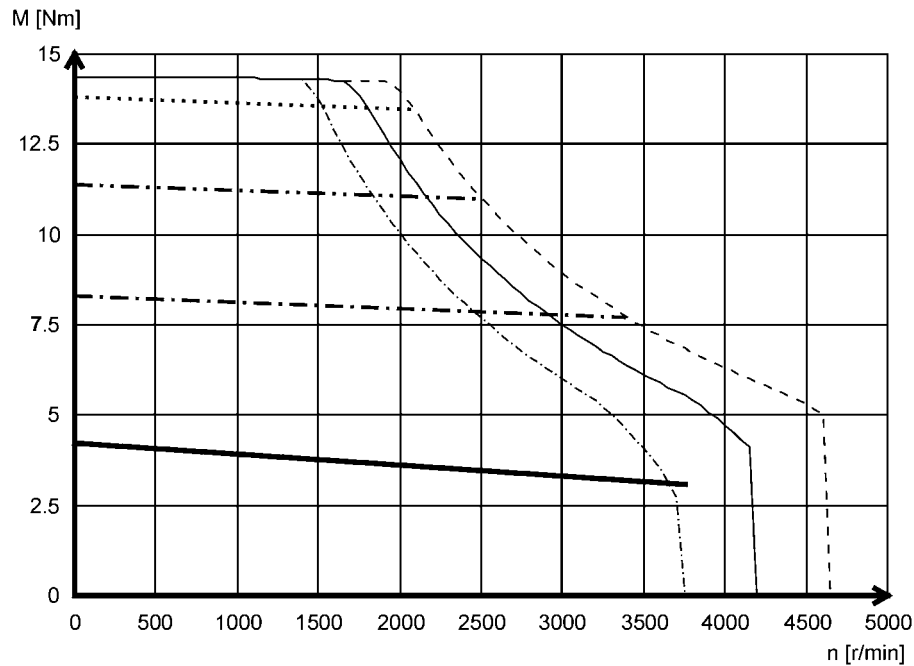
MCS09D41L (self-ventilated)



- Mmax 253 V
- Mmax 230 V
- · - · - Mmax 207 V
- Mmax @ Imax= 3x I₀
- Mmax @ Imax= 2x I₀
- S1

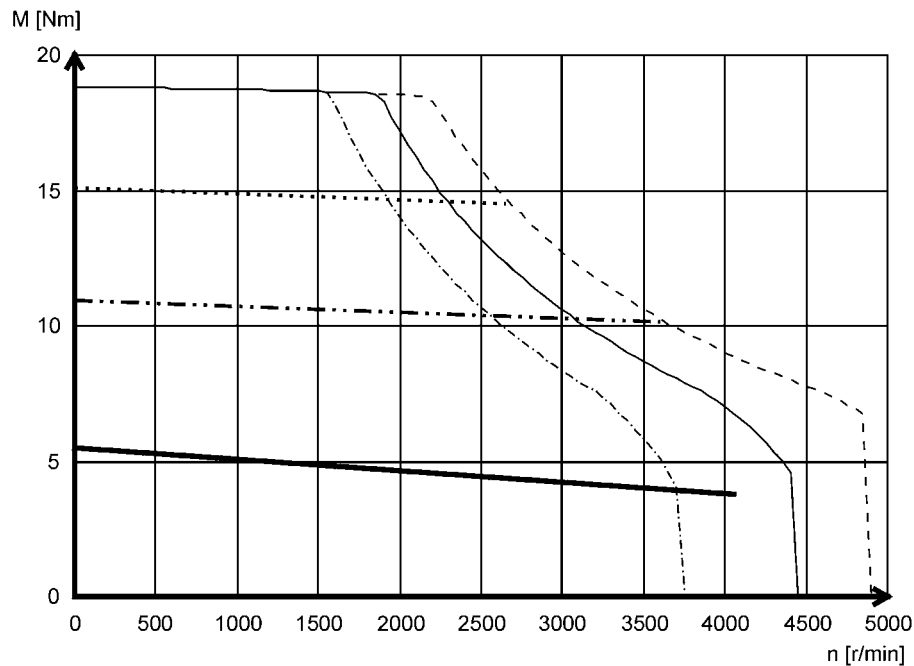


MCS09F38L (self-ventilated)



- Mmax 253 V
- Mmax 230 V
- · - · Mmax 207 V
- Mmax @ Imax= 4x I₀
- · - - Mmax @ Imax= 3x I₀
- - - Mmax @ Imax= 2x I₀
- S1

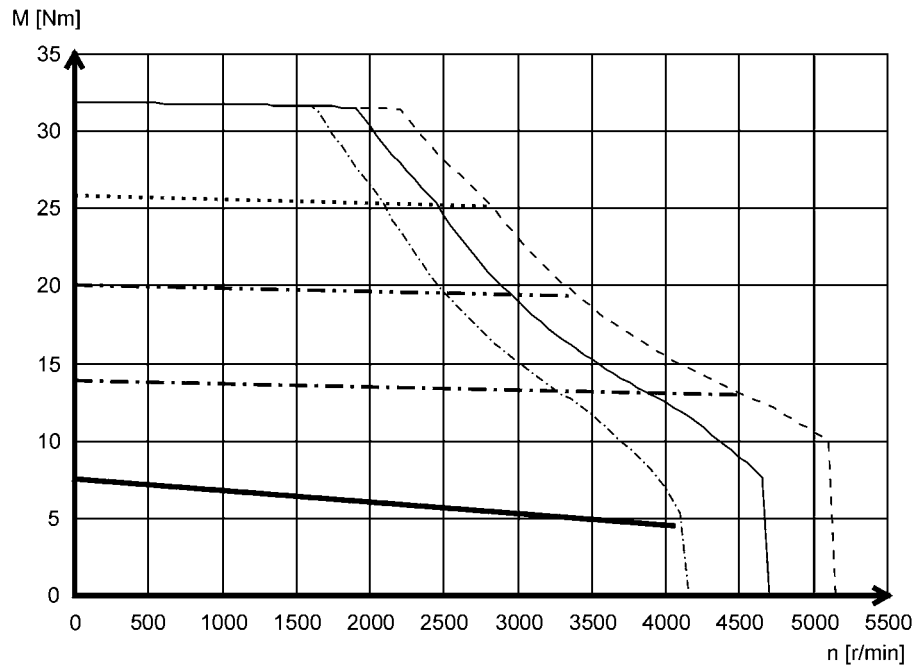
MCS09H41L (self-ventilated)



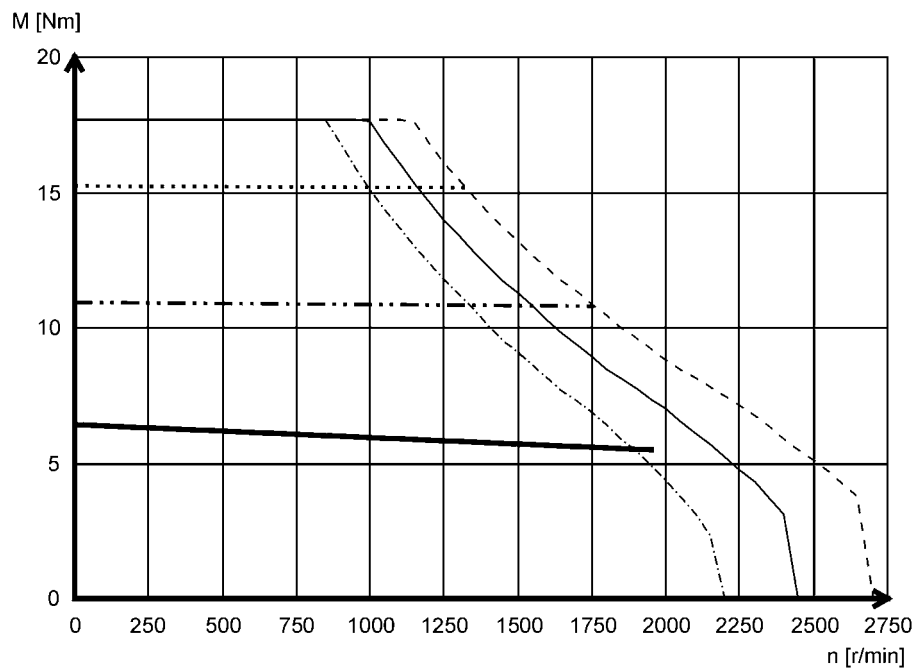
- Mmax 253 V
- Mmax 230 V
- · - · Mmax 207 V
- Mmax @ Imax= 3x I₀
- · - - Mmax @ Imax= 2x I₀
- S1



MCS09L41L (self-ventilated)

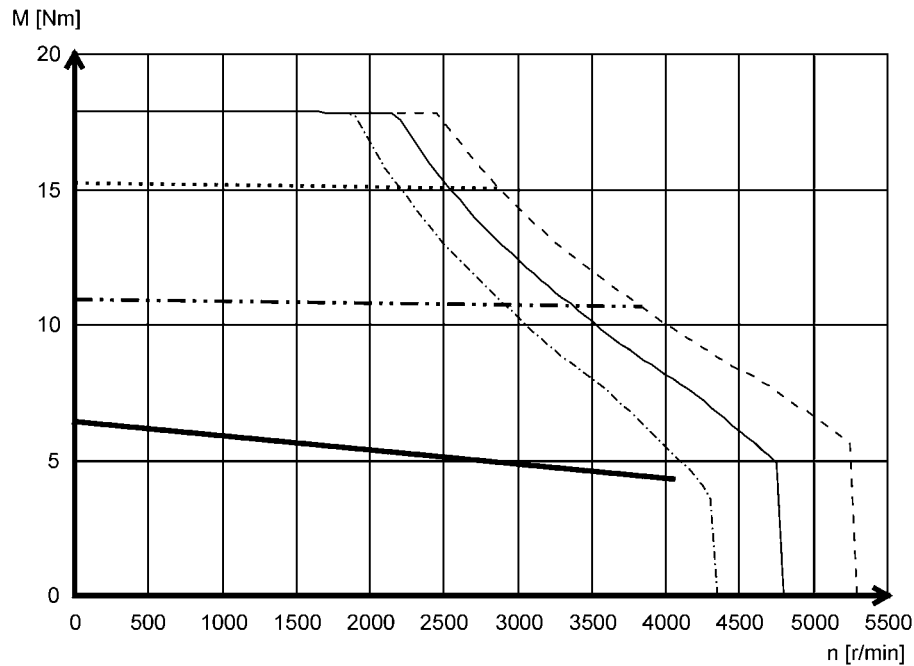


MCS12D20L (self-ventilated)



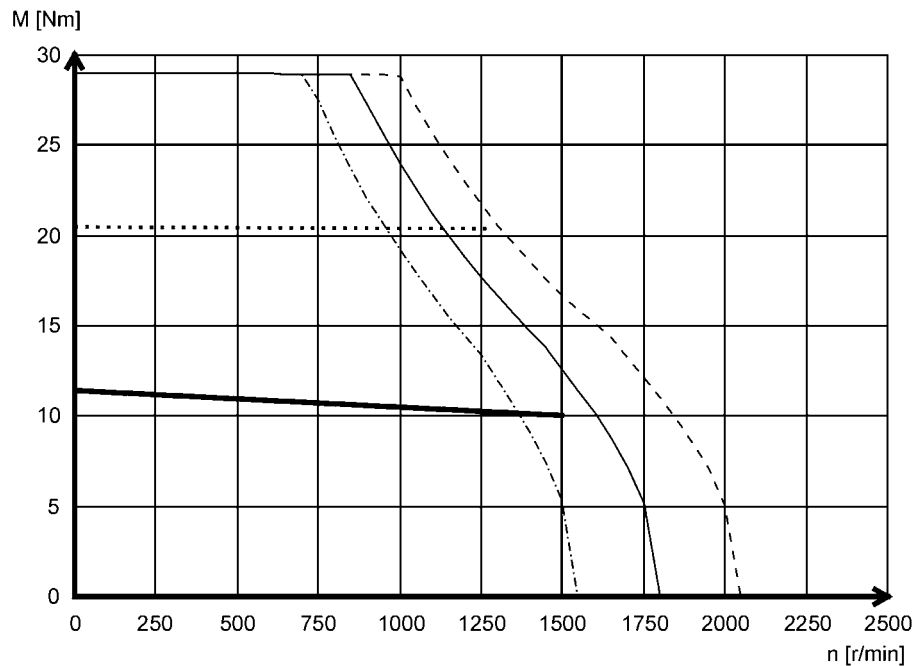


MCS12D41L (self-ventilated)



- Mmax 253 V
- Mmax 230 V
- · - · - Mmax 207 V
- Mmax @ Imax= 3x I0
- · - · - Mmax @ Imax= 2x I0
- S1

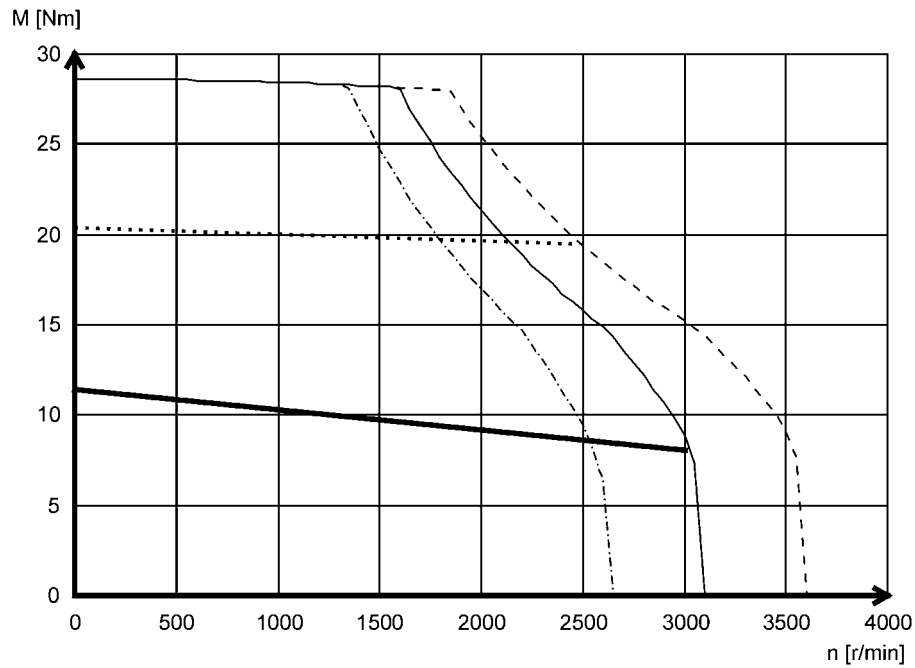
MCS12H15L (self-ventilated)



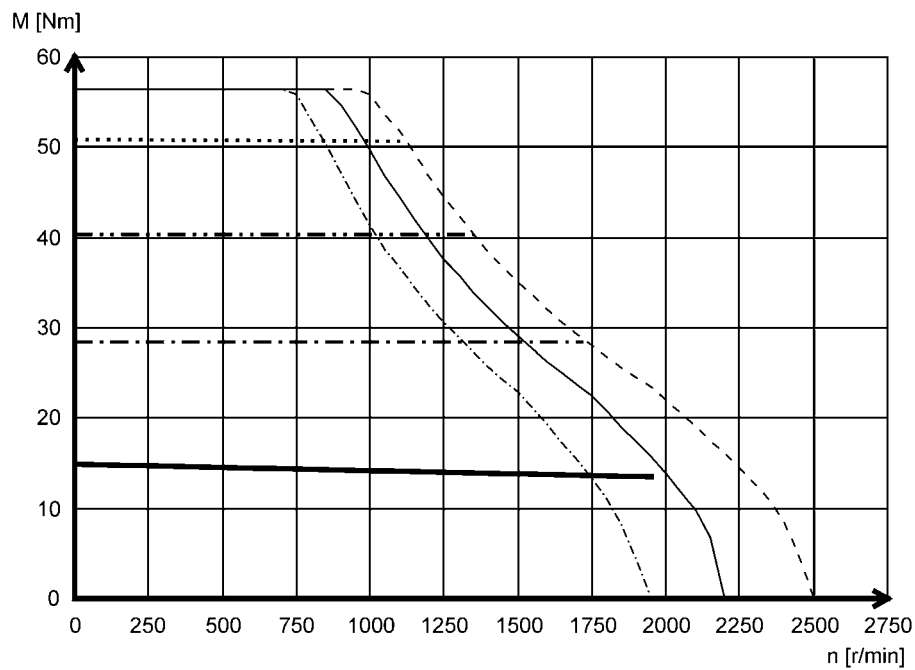
- Mmax 253 V
- Mmax 230 V
- · - · - Mmax 207 V
- Mmax @ Imax= 2x I0
- S1



MCS12H30L- (self-ventilated)



MCS12L20L (self-ventilated)





Environmental notes and recycling

Lenze has been certified to the worldwide environmental management standard for many years (DIN EN ISO 14001). As part of our environmental policy and the associated climate responsibility, please note the following information on hazardous ingredients and the recycling of Lenze products and their packaging:



Lenze products are partly subject to the EU Directive on the restriction of certain hazardous substances in electrical and electronic equipment 2011/65/EU: RoHS Directive [UKCA: S.I. 2012/3032 - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012] . This is documented accordingly in the EU declaration of conformity and with the CE mark.



The crossed-out wheeled bin symbol is located on the equipment. This information indicates that used electrical and electronic products must not be disposed of with normal household waste.
The EU Directive 2012/19/EU: Directive on waste electrical and electronic equipment (WEEE) [UKCA: S.I. 2013/3113 - The Waste Electrical and Electronic Equipment Regulations 2013] , which has been transposed into national law by the respective EU member states, applies to the disposal of equipment. As a customer, you have the option of disposing of the electrical and electronic equipment that you have purchased from us and that is subject to WEEE via the Lenze branch in your country.
Lenze addresses in Europe: <https://www.lenze.com/en-de/company/global-presence>

Some Lenze products contain batteries/rechargeable batteries in accordance with EU Directive 2006/66/EC: Battery Directive [UKCA: S.I. 2009/890 - The Waste Batteries and Accumulators Regulations 2009] . Any batteries/rechargeable batteries included are designed to last the life of the product and do not need to be replaced or otherwise removed by the end user.



Lenze products are usually sold with cardboard or plastic packaging. This packaging complies with EU Directive 94/62/EC: Directive on packaging and packaging waste [UKCA: S.I. 1997/648 - The Producer Responsibility Obligations (Packaging Waste) Regulations 1997] . The required disposal route is indicated by material-specific labels with the "recycling triangle". Example: "21 - other cardboard"

REACH

Lenze products are subject to REGULATION (EC) No 1907/2006: REACH Regulation [UKCA: S.I. 2008/2852 - The REACH Enforcement Regulations 2008] . When used as intended, exposure of substances to humans, animals and the environment is excluded.

Lenze products are industrial electrical and electronic products and are disposed of professionally. Both the mechanical and electrical components such as electric motors, gearboxes or inverters contain valuable raw materials that can be recycled and reused. Proper recycling and thus maintaining the highest possible level of recyclability is therefore important and sensible from an economic and ecological point of view.

- Coordinate professional disposal with your waste disposal company.
- Separate mechanical and electrical components, packaging, hazardous waste (e.g. gear oils) and batteries/rechargeable batteries wherever possible.
- Dispose of the separated waste in an environmentally sound and proper manner (no household waste or municipal bulky waste).

What?	Material	Disposal instructions
Pallets	Wood	Return to manufacturers, freight forwarders or reusable materials collection system
Packaging material	Paper, cardboard, pasteboard, plastics	Collect and dispose of separately
Products		
Electronic devices	Metal, plastics, circuit boards, heatsinks	As electronic waste give to professional disposer for recycling
Gearbox	Oil	Drain oil and dispose of separately
	Casting, steel, aluminium	Dispose as metal scrap
Motors	Casting, copper, rotors, magnets, potting compound	As engine scrap give to professional disposer for recycling
Dry-cell batteries/rechargeable batteries		As used batteries give to professional disposer for recycling



Further information on Lenze's environmental and climate responsibility and on the topic of energy efficiency can be found on the Internet:

www.Lenze.com → search word: "Sustainability"



Appendix

Good to know

Operating modes of the motor

In continuous operation a motor reaches its permissible temperature limit if it outputs the rated power dimensioned for continuous operation. However, if the motor is only subjected to load for a short time, the power output by the motor may be greater without the motor reaching its permissible temperature limit. This behaviour is referred to as overload capacity.

Depending on the duration of the load and the resulting temperature rise, the required motor can be selected reduced by the overload capacity.

Operating modes S1 ... S10 as specified by EN 60034-1 describe the basic stress of an electrical machine.

The most important operating modes

Continuous operation S1	Short-time operation S2
Operation with a constant load until the motor reaches the thermal steady state. The motor may be actuated continuously with its rated power.	Operation with constant load; however, the motor does not reach the thermal steady state. During the following standstill, the motor winding cools down to the ambient temperature again. The increase in power depends on the load duration.



Intermittent operation S3	Non-intermittent periodic operation S6
Sequence of identical duty cycles comprising operation with a constant load and subsequent standstill. Start-up and braking processes do not have an impact on the winding temperature. The steady-state is not reached. The guide values apply to a cycle duration of 10 minutes. The power increase depends on the cycle duration and on the load period/downtime ratio.	Sequence of identical duty cycles comprising operation with a constant load and subsequent no-load operation. The motor cools down during the no-load phase. Start-up and braking processes do not have an impact on the winding temperature. The steady-state is not reached. The guide values apply to a cycle duration of 10 minutes. The power increase depends on the cycle duration and on the load period/idle time ratio.
P Power t Time t_L Idle time θ Temperature	P_V Power loss t_B Load period t_S Cycle duration

Enclosures

The protection class indicates the suitability of a product for specific ambient conditions with regard to humidity as well as the protection against contact and the ingress of foreign particles. The protection classes are classified in the EN 60034-5/ EN IEC 60529.

The first code number after the code letters IP indicates the protection against the ingress of foreign particles and dust. The second code number refers to the protection against the ingress of humidity.

Code number 1	Degree of protection	Code number 2	Degree of protection
0	No protection	0	No protection
1	Protection against the ingress of foreign particles $d > 50$ mm. No protection in case of deliberate access.	1	Protection against vertically dripping water (dripping water).
2	Protection against medium-sized foreign particles, $d > 12$ mm, keeping away fingers or the like.	2	Protection against diagonally falling water (dripping water), 15° compared to normal service position.
3	Protection against small foreign particles $d > 2.5$ mm. Keeping away tools, wires or the like.	3	Protection against spraying water, up to 60° from vertical.
4	Protection against granular foreign particles, $d > 1$ mm, keeping away tools, wire or the like.	4	Protection against spraying water from all directions.
5	Protection against dust deposits (dust-protected), complete protection against contact.	5	Protection against water jets from all directions.
6	Protection against the ingress of dust (dust-proof), complete protection against contact.	6	Protection against choppy seas or heavy water jets (flood protection).

