

BRUSHLESS MOTOR

EY310EAK

ELECTRONIC DRIVE

DRIVE 3/7

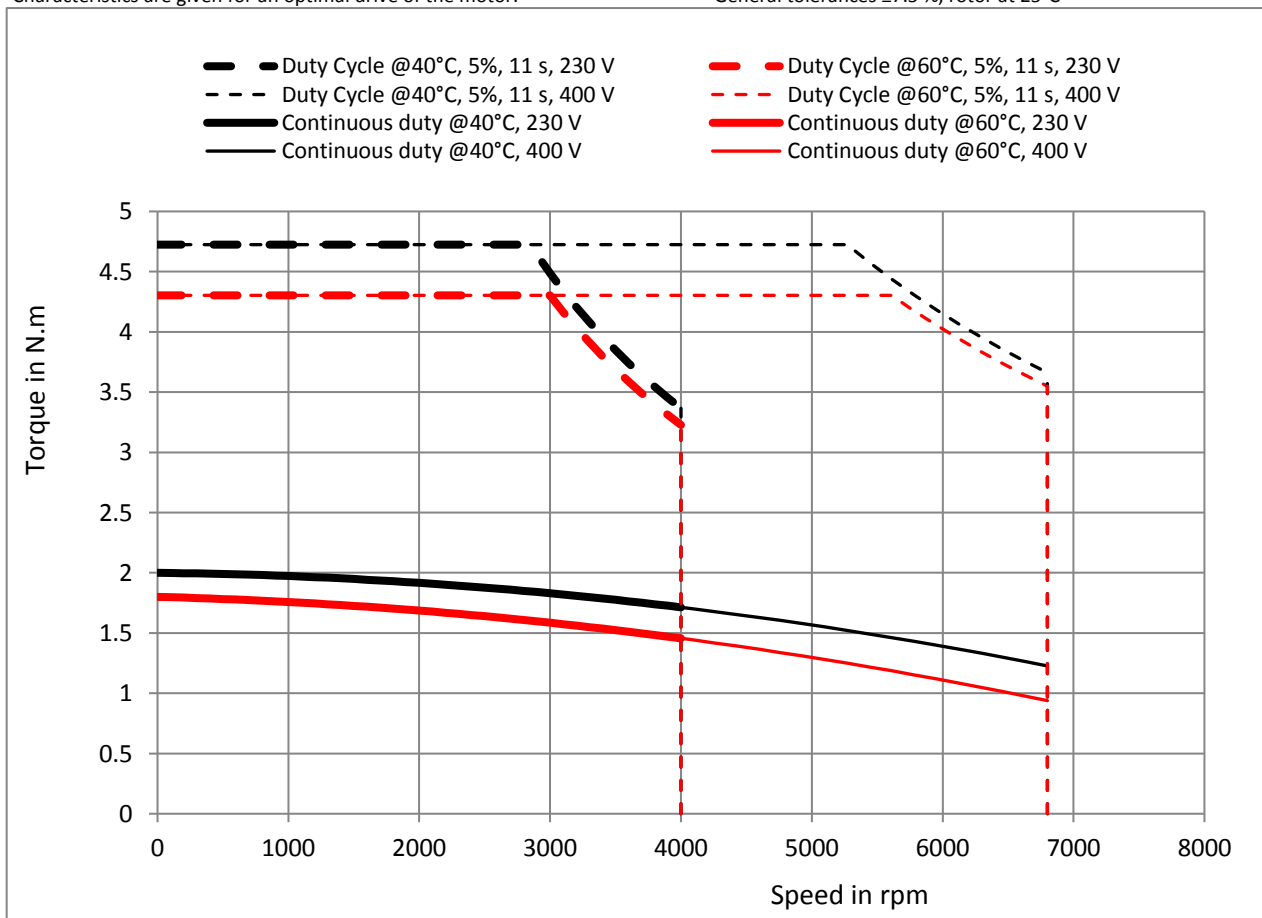
No UL certification

T_a	Max ambient temperature:	°C	@40°C				@60°C			
UR	Voltage of the mains:	V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW	0.718		0.874		0.61		0.669	
M_n	Rated torque **	$N.m$	1.71		1.23		1.46		0.939	
N_n	Rated speed	$/min$	4000		6800		4000		6800	
I_n	Rated current	A_{rms}	2.2		1.63		1.88		1.28	
U_n	Rated voltage *	V_{rms}	223		357		218		352	
U_{bus}	DC voltage supply when motor is loaded	V	310		540		310		540	
M_o	Low speed torque **	$N.m$	2		2		1.8		1.8	
I_o	Permanent current at low speed	A_{rms}	2.5		2.5		2.25		2.25	
M_p	Max. torque **	$N.m$	4.72		4.72		4.3		4.3	
I_p	Max. current	A_{rms}	6.25		6.25		5.62		5.62	
N_{max}	Max. speed	$/min$	4000		6800		4000		6800	
F_{max}	Electrical frequency @max. speed:	Hz	333		567		333		567	
η	Efficiency at rated torque:	%	87		87.1		87.4		85.4	
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	87.9		85.3		87.5		82.7	
$2p$	Number of poles:	10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature $\leq T_a$							
J	Rotor inertia	0.8 $kg.cm^2$								
K_e	Back emf constant at 1000 rpm (25°C)*	50.6 V_{rms}								
K_t	Torque sensitivity (25°C)	0.8 Nm/A_{rms}								
R_b	Winding resistance(25°C) *	6.58 Ω								
L	Winding inductance *	19.2 mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY310EAP

ELECTRONIC DRIVE

DRIVE 2/4

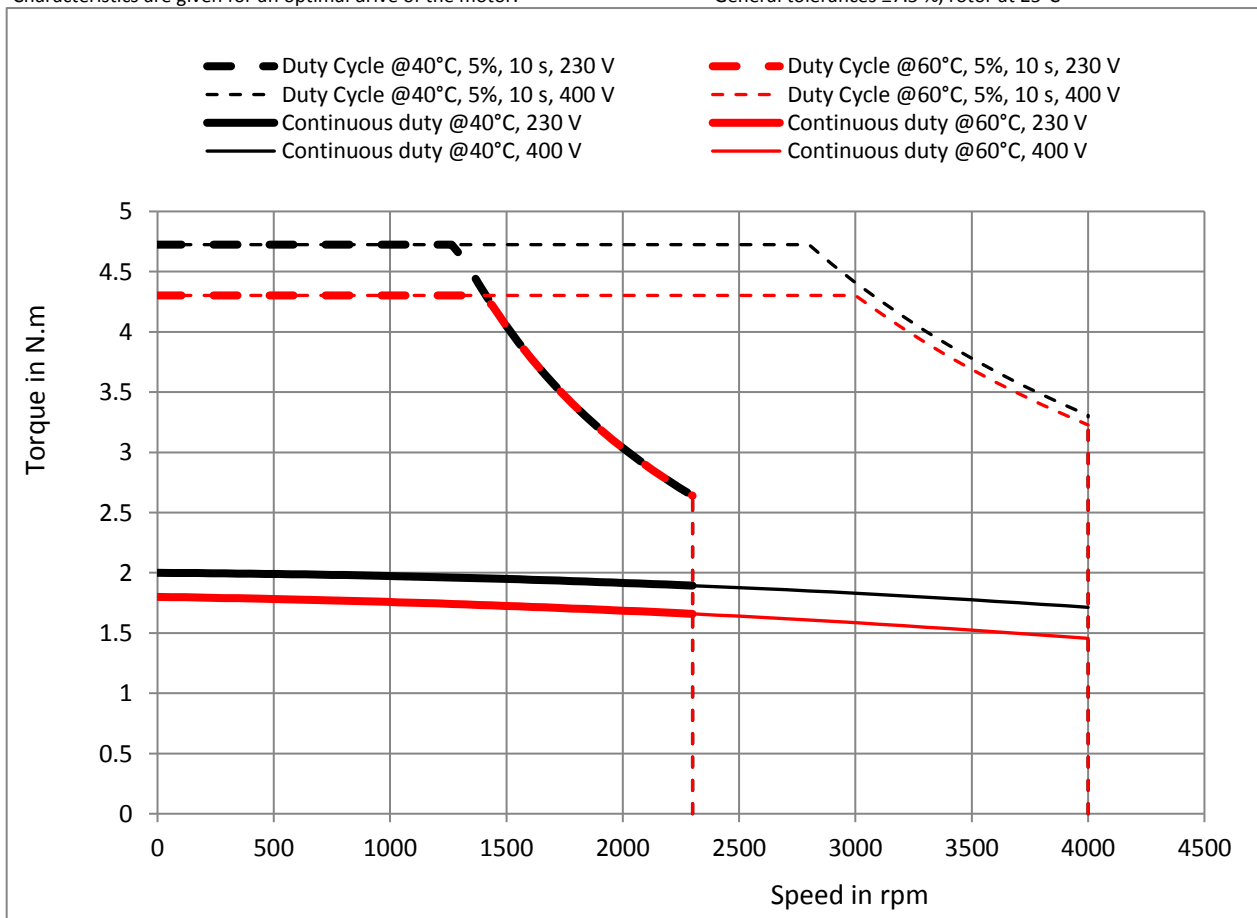
No UL certification

T_a	Max ambient temperature:	°C	@40°C		@60°C	
UR	Voltage of the mains:	V_{rms}	230 VAC	400 VAC	230 VAC	400 VAC
P_n	Rated power **	kW	0.456	0.718	0.4	0.61
M_n	Rated torque **	$N.m$	1.89	1.71	1.66	1.46
N_n	Rated speed	$/min$	2300	4000	2300	4000
I_n	Rated current	A_{rms}	1.37	1.26	1.2	1.07
U_n	Rated voltage *	V_{rms}	243	391	236	383
U_{bus}	DC voltage supply when motor is loaded	V	310	540	310	540
M_o	Low speed torque **	$N.m$	2	2	1.8	1.8
I_o	Permanent current at low speed	A_{rms}	1.43	1.43	1.29	1.29
M_p	Max. torque **	$N.m$	4.72	4.72	4.3	4.3
I_p	Max. current	A_{rms}	3.58	3.58	3.21	3.21
N_{max}	Max. speed	$/min$	2300	4000	2300	4000
F_{max}	Electrical frequency @max. speed:	Hz	192	333	192	333
η	Efficiency at rated torque:	%	81.6	86.7	83.1	87.2
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	85.3	87.7	85.7	87.4
$2p$	Number of poles:	10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature $\leq T_a$			
J	Rotor inertia	0.8 $kg.cm^2$				
K_e	Back emf constant at 1000 rpm (25°C)*	88.4 V_{rms}				
K_t	Torque sensitivity (25°C)	1.4 Nm/A_{rms}				
R_b	Winding resistance(25°C) *	20.7 Ω				
L	Winding inductance *	58.6 mH				

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY420EAJ

ELECTRONIC DRIVE

DRIVE 5/13

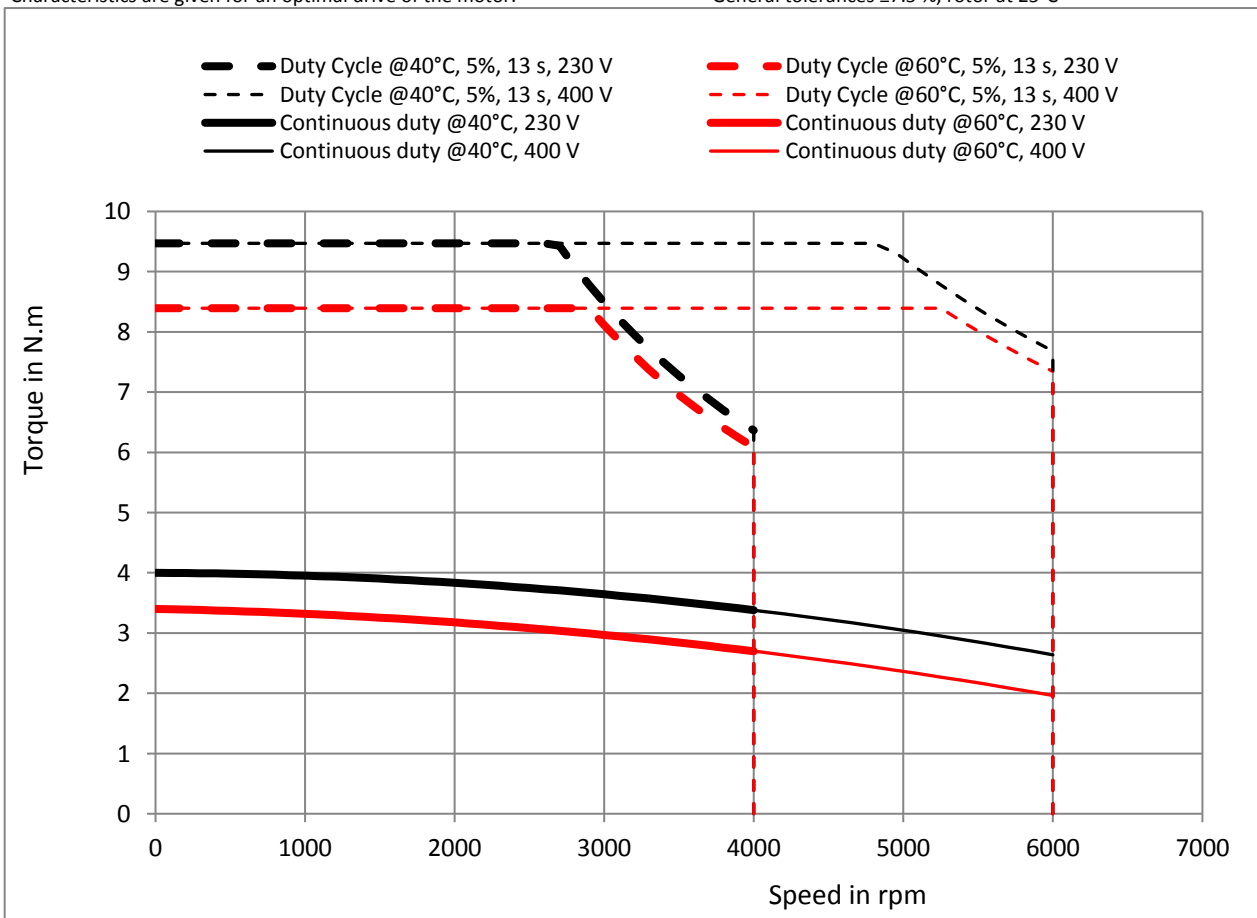
No UL certification

T_a	Max ambient temperature: °C		@40°C		@60°C					
	Voltage of the mains:	V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
Pn	Rated power **	kW	1.42		1.66		1.13		1.23	
Mn	Rated torque **	$N.m$	3.38		2.64		2.7		1.96	
Nn	Rated speed	$/min$	4000		6000		4000		6000	
In	Rated current	A_{rms}	4.21		3.36		3.38		2.55	
Un	Rated voltage *	V_{rms}	225		324		219		318	
U_{bus}	DC voltage supply when motor is loaded	V	310		540		310		540	
M_o	Low speed torque **	$N.m$	4		4		3.5		3.5	
I_o	Permanent current at low speed	A_{rms}	4.87		4.87		4.25		4.25	
M_p	Max. torque **	$N.m$	9.47		9.47		8.39		8.39	
I_p	Max. current	A_{rms}	12.2		12.2		10.6		10.6	
N_{max}	Max. speed	$/min$	4000		6000		4000		6000	
F_{max}	Electrical frequency @max. speed:	Hz	333		500		333		500	
η	Efficiency at rated torque:	%	88.1		86.8		87.9		85	
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	87.8		84.7		86.8		82	
2p	Number of poles:	10	Environment:							
J	Rotor inertia	0.00029 $kg.m^2$	Altitude: <1000m							
Ke	Back emf constant at 1000 rpm (25°C)*	51.7 V_{rms}	Thermal class F (according to IEC 60034-1)							
Kt	Torque sensitivity (25°C)	0.821 Nm/A_{rms}	Cooling type: Natural Air cooling							
Rb	Winding resistance(25°C) *	2.31 Ω	Flange 400*400*12mm(ALU)							
L	Winding inductance *	11 mH	with flange temperature <= T_a							

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY420EAP

ELECTRONIC DRIVE

DRIVE 3/8

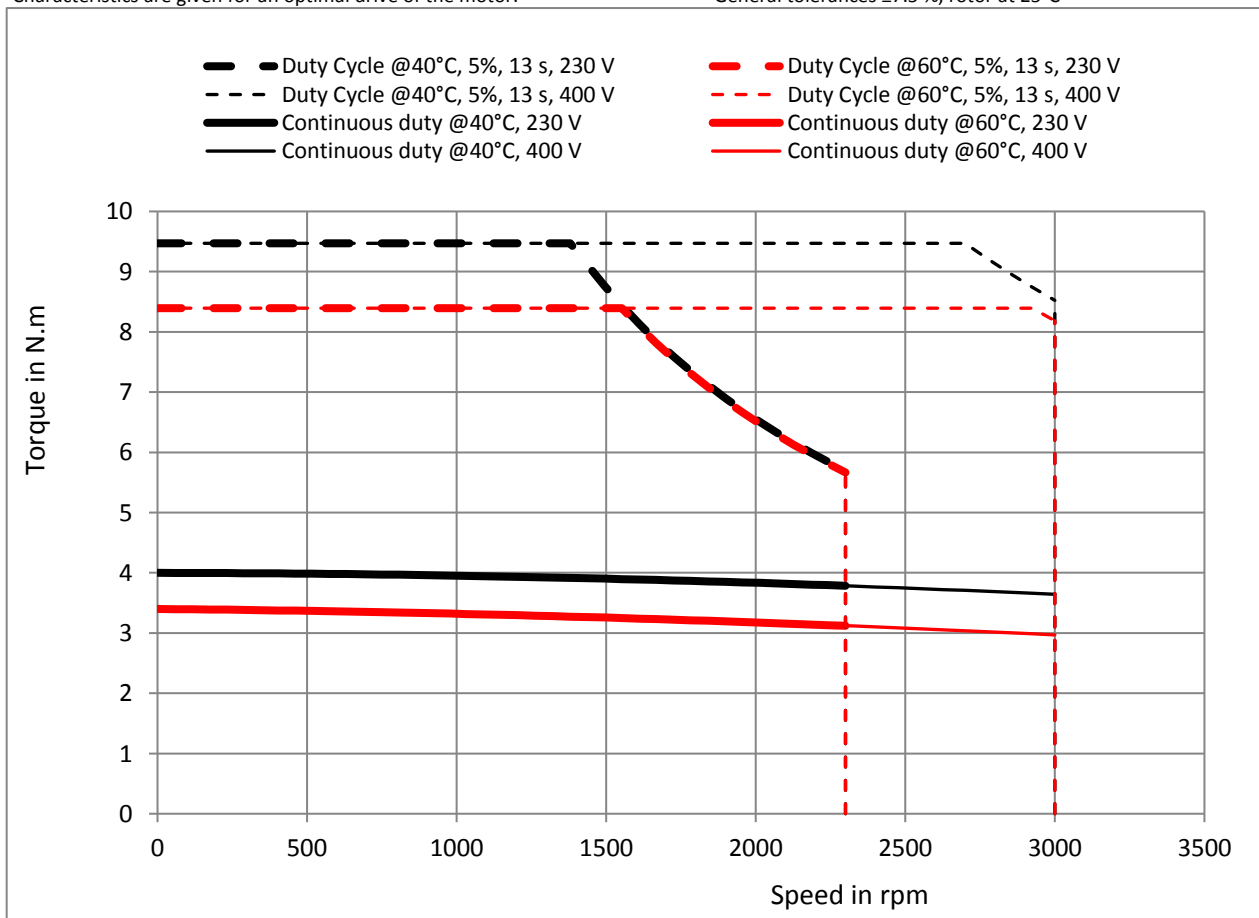
No UL certification

T_a	Max ambient temperature:		°C	@40°C				@60°C			
UR	Voltage of the mains:		V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P _n	Rated power **		kW	0.911		1.14		0.752		0.933	
M _n	Rated torque **		$N.m$	3.78		3.64		3.12		2.97	
N _n	Rated speed		$/min$	2300		3000		2300		3000	
I _n	Rated current		A_{rms}	2.69		2.6		2.22		2.13	
U _n	Rated voltage *		V_{rms}	238		302		229		292	
U _{bus}	DC voltage supply when motor is loaded		V	310		540		310		540	
M _o	Low speed torque **		$N.m$	4		4		3.5		3.5	
I _o	Permanent current at low speed		A_{rms}	2.81		2.81		2.46		2.46	
M _p	Max. torque **		$N.m$	9.47		9.47		8.39		8.39	
I _p	Max. current		A_{rms}	7.03		7.03		6.14		6.14	
N _{max}	Max. speed		$/min$	2300		3000		2300		3000	
F _{max}	Electrical frequency @max. speed:		Hz	192		250		192		250	
η	Efficiency at rated torque:		%	85.3		87		86.5		87.6	
η _{75%}	Efficiency at 75% of rated torque:		%	87.3		87.9		87.4		87.5	
2p	Number of poles:		10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature <= T_a							
J	Rotor inertia	0.00029	$kg.m^2$								
Ke	Back emf constant at 1000 rpm (25°C)*	89.5	V_{rms}								
Kt	Torque sensitivity (25°C)	1.42	Nm/A_{rms}								
Rb	Winding resistance(25°C) *	7.2	Ω								
L	Winding inductance *	33	mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY430EAF

ELECTRONIC DRIVE

DRIVE 7/17

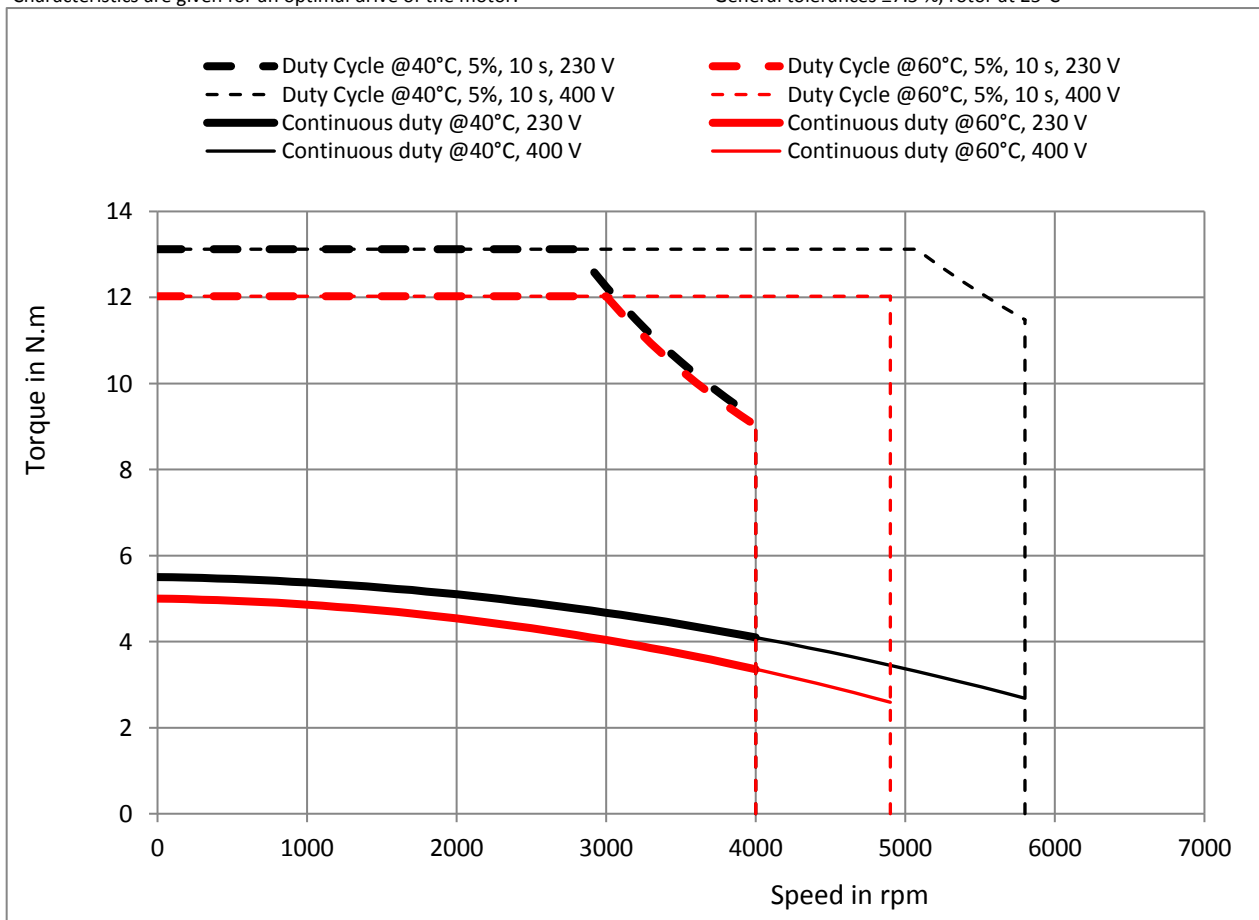
No UL certification

T_a	Max ambient temperature: °C			@40°C				@60°C			
UR	Voltage of the mains:		V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P _n	Rated power **		kW	1.72		1.63		1.41		1.33	
M _n	Rated torque **		N.m	4.1		2.68		3.36		2.59	
N _n	Rated speed		/min	4000		5800		4000		4900	
I _n	Rated current		A _{rms}	5.05		3.42		4.16		3.28	
U _n	Rated voltage *		V _{rms}	220		308		217		261	
U _{bus}	DC voltage supply when motor is loaded		V	310		540		310		540	
M _o	Low speed torque **		N.m	5.5		5.5		5		5	
I _o	Permanent current at low speed		A _{rms}	6.6		6.6		5.99		5.99	
M _p	Max. torque **		N.m	13.1		13.1		12		12	
I _p	Max. current		A _{rms}	16.5		16.5		15		15	
N _{max}	Max. speed		/min	4000		5800		4000		4900	
F _{max}	Electrical frequency @max. speed:		Hz	333		483		333		408	
η	Efficiency at rated torque:		%	91.1		89		90.8		89.4	
η _{75%}	Efficiency at 75% of rated torque:		%	90.7		86.8		89.9		87.4	
2p	Number of poles: 10			Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature <= T _a							
J	Rotor inertia 0.00043		kg.m ²								
Ke	Back emf constant at 1000 rpm (25°C)* 52.3		V _{rms}								
Kt	Torque sensitivity (25°C) 0.833		Nm/A _{rms}								
Rb	Winding resistance(25°C) * 1.38		Ω								
L	Winding inductance * 7.34		mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY430EAL

ELECTRONIC DRIVE

DRIVE 4/10

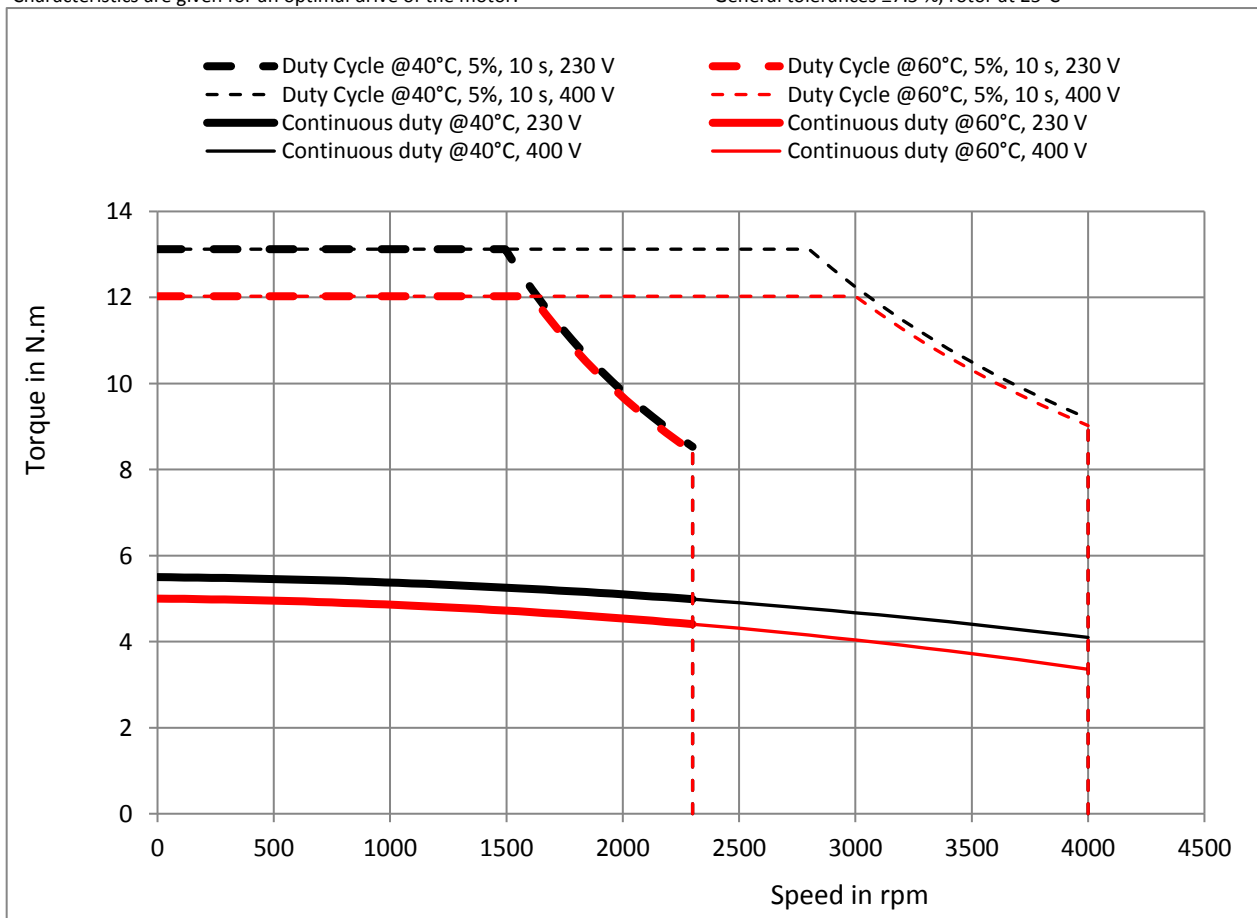
No UL certification

T_a UR	Max ambient temperature: °C	Voltage of the mains: V_{rms}	@40°C		@60°C	
			230 VAC	400 VAC	230 VAC	400 VAC
P_n	Rated power **	kW	1.2	1.72	1.06	1.41
M_n	Rated torque **	$N.m$	4.99	4.1	4.41	3.36
N_n	Rated speed	$/min$	2300	4000	2300	4000
I_n	Rated current	A_{rms}	3.45	2.87	3.05	2.37
U_n	Rated voltage *	V_{rms}	233	386	229	380
U_{bus}	DC voltage supply when motor is loaded	V	310	540	310	540
M_o	Low speed torque **	$N.m$	5.5	5.5	5	5
I_o	Permanent current at low speed	A_{rms}	3.76	3.76	3.41	3.41
M_p	Max. torque **	$N.m$	13.1	13.1	12	12
I_p	Max. current	A_{rms}	9.4	9.4	8.54	8.54
N_{max}	Max. speed	$/min$	2300	4000	2300	4000
F_{max}	Electrical frequency @max. speed:	Hz	192	333	192	333
η	Efficiency at rated torque:	%	89.1	91.1	89.6	90.9
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	90.6	90.7	90.6	89.9
$2p$	Number of poles:	10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature $\leq T_a$			
J	Rotor inertia	0.00043 $kg.m^2$				
K_e	Back emf constant at 1000 rpm (25°C)*	91.8 V_{rms}				
K_t	Torque sensitivity (25°C)	1.46 Nm/A_{rms}				
R_b	Winding resistance(25°C) *	4.22 Ω				
L	Winding inductance *	22.6 mH				

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY620EAR

ELECTRONIC DRIVE

DRIVE 6/14

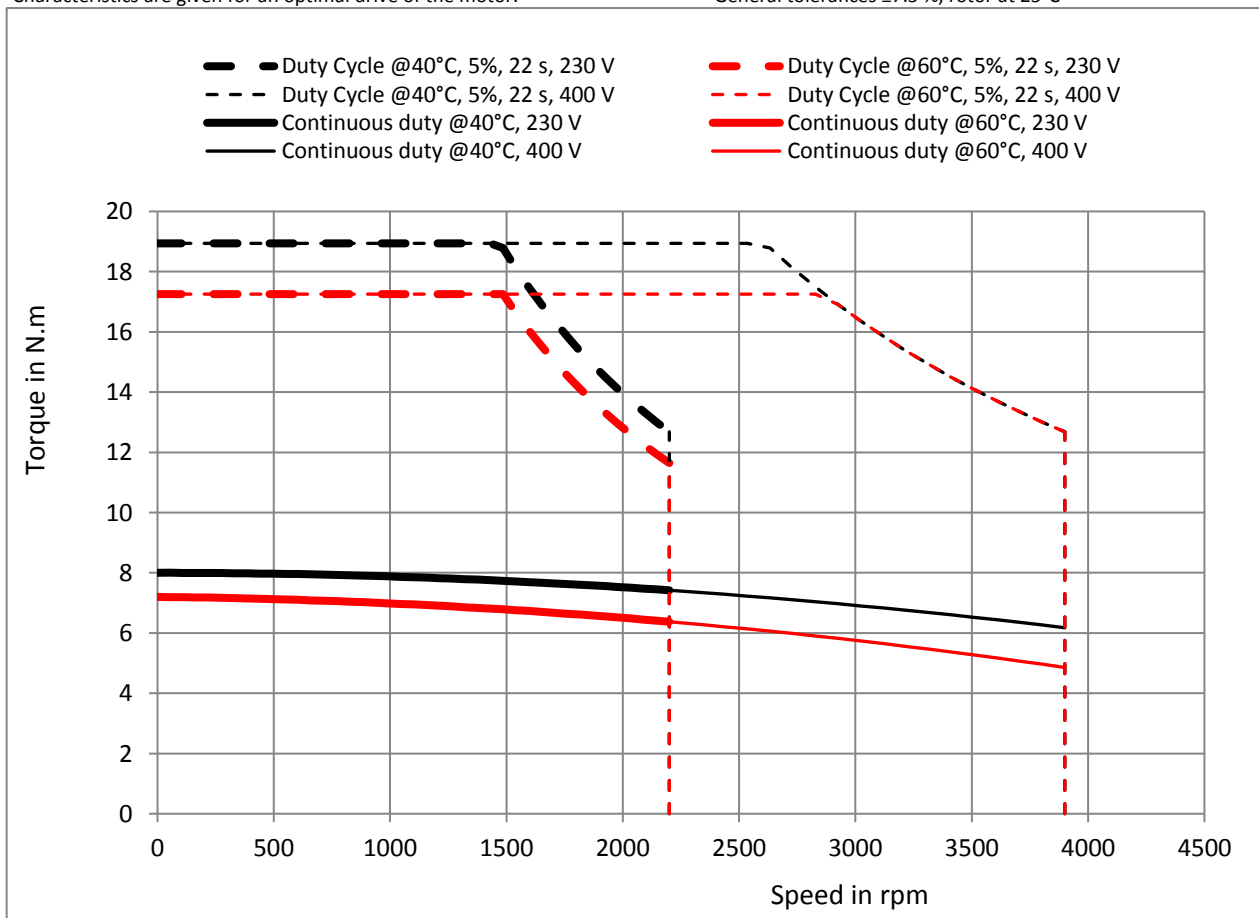
No UL certification

T_a	Max ambient temperature:	°C	@40°C				@60°C			
UR	Voltage of the mains:	V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW	1.71		2.52		1.47		1.98	
M_n	Rated torque **	$N.m$	7.42		6.17		6.38		4.86	
N_n	Rated speed	$/min$	2200		3900		2200		3900	
I_n	Rated current	A_{rms}	4.95		4.16		4.25		3.29	
U_n	Rated voltage *	V_{rms}	230		388		224		379	
U_{bus}	DC voltage supply when motor is loaded	V	310		540		310		540	
M_o	Low speed torque **	$N.m$	8		8		7.2		7.2	
I_o	Permanent current at low speed	A_{rms}	5.29		5.29		4.75		4.75	
M_p	Max. torque **	$N.m$	18.9		18.9		17.3		17.3	
I_p	Max. current	A_{rms}	13.2		13.2		11.9		11.9	
N_{max}	Max. speed	$/min$	2200		3900		2200		3900	
F_{max}	Electrical frequency @max. speed:	Hz	183		325		183		325	
η	Efficiency at rated torque:	%	91.8		93.8		92.5		93.7	
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	93.2		93.7		93.3		93.2	
$2p$	Number of poles:	10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature $\leq T_a$							
J	Rotor inertia	0.00098 $kg.m^2$								
K_e	Back emf constant at 1000 rpm (25°C)*	94.4 V_{rms}								
K_t	Torque sensitivity (25°C)	1.51 Nm/A_{rms}								
R_b	Winding resistance(25°C) *	2.24 Ω								
L	Winding inductance *	19.2 mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY620EAV

ELECTRONIC DRIVE

DRIVE 3/8

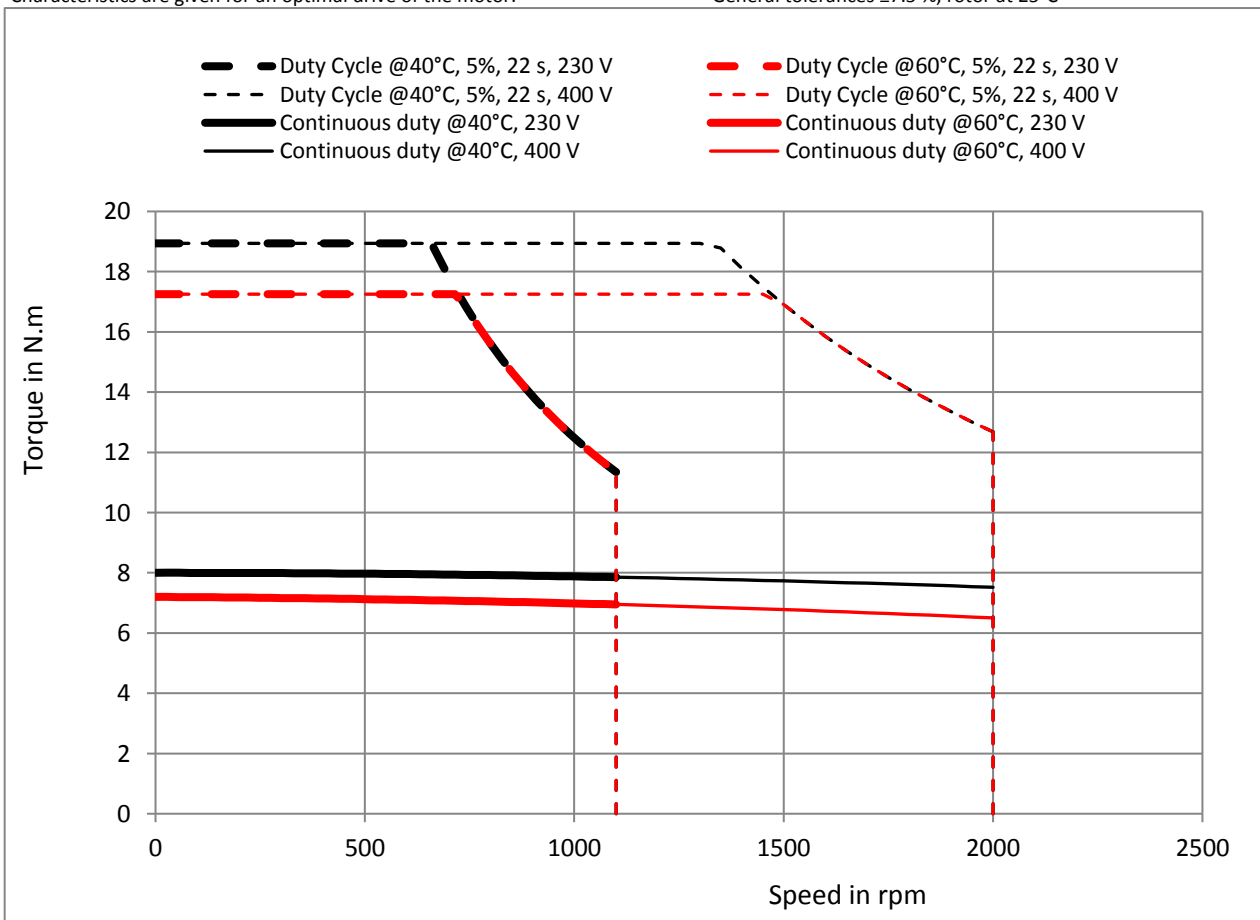
No UL certification

T_a	Max ambient temperature: °C	@40°C				@60°C			
UR	Voltage of the mains: V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW							
M_n	Rated torque **	N.m							
N_n	Rated speed	/min							
I_n	Rated current	A_{rms}							
U_n	Rated voltage *	V_{rms}							
U_{bus}	DC voltage supply when motor is loaded	V							
M_o	Low speed torque **	N.m							
I_o	Permanent current at low speed	A_{rms}							
M_p	Max. torque **	N.m							
I_p	Max. current	A_{rms}							
N_{max}	Max. speed	/min							
F_{max}	Electrical frequency @max. speed:	Hz							
η	Efficiency at rated torque:	%							
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%							
$2p$	Number of poles:	10				Environment:			
J	Rotor inertia	0.00098 $kg.m^2$				Altitude: <1000m			
K_e	Back emf constant at 1000 rpm (25°C)*	177.0 V_{rms}				Thermal class F (according to IEC 60034-1)			
K_t	Torque sensitivity (25°C)	2.84 Nm/A_{rms}				Cooling type: Natural Air cooling			
R_b	Winding resistance(25°C) *	7.9 Ω				Flange 400*400*12mm(ALU)			
L	Winding inductance *	67.6 mH				with flange temperature $\leq T_a$			

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY630EAN

ELECTRONIC DRIVE

DRIVE 9/21

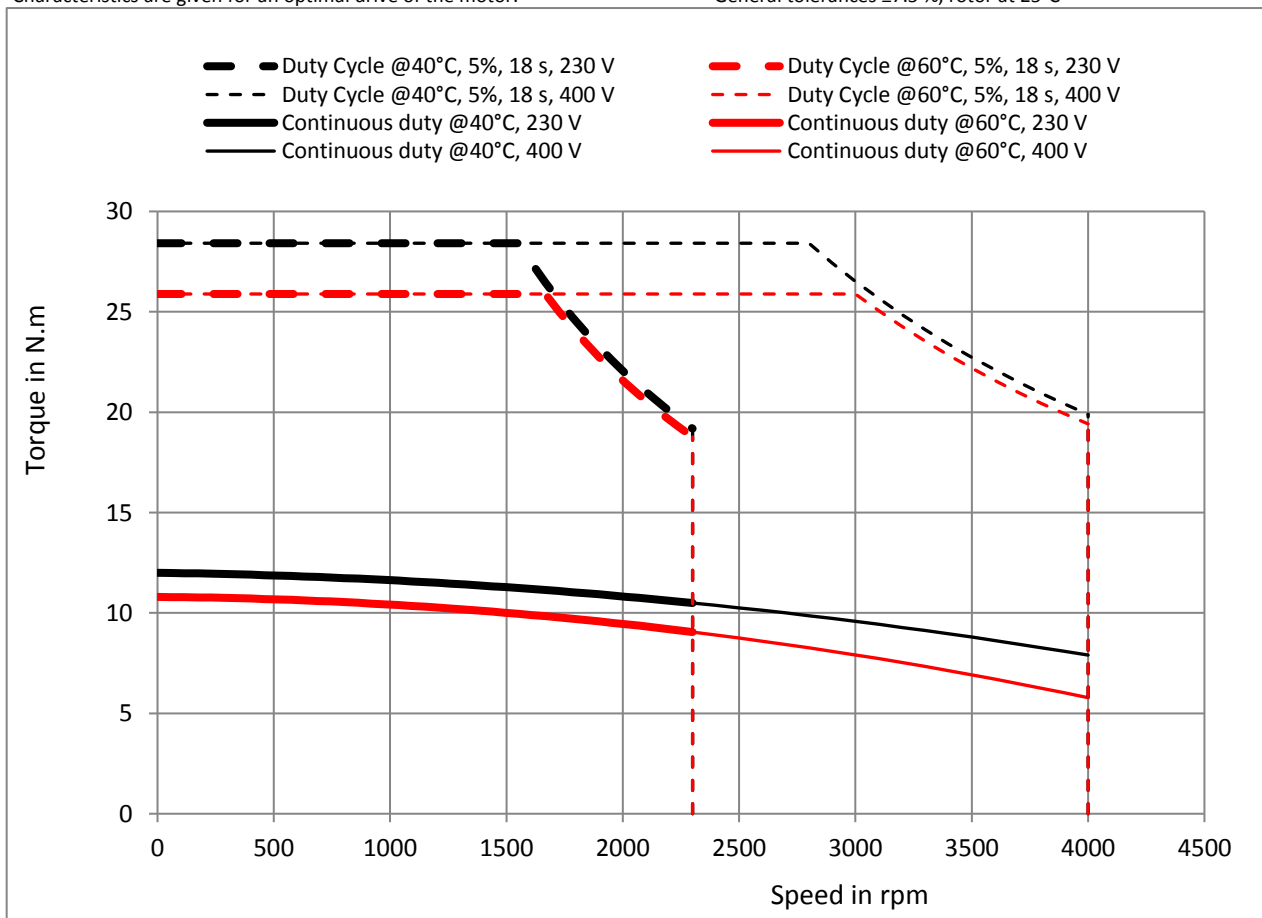
No UL certification

T_a	Max ambient temperature: °C	@40°C				@60°C			
UR	Voltage of the mains: V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW		2.53	3.31	2.18		2.42	
M_n	Rated torque **	$N.m$		10.5	7.9	9.05		5.78	
N_n	Rated speed	$/min$		2300	4000	2300		4000	
I_n	Rated current	A_{rms}		7.29	5.57	6.3		4.12	
U_n	Rated voltage *	V_{rms}		225	374	221		367	
U_{bus}	DC voltage supply when motor is loaded	V		310	540	310		540	
M_o	Low speed torque **	$N.m$		12	12	10.8		10.8	
I_o	Permanent current at low speed	A_{rms}		8.26	8.26	7.43		7.43	
M_p	Max. torque **	$N.m$		28.4	28.4	25.9		25.9	
I_p	Max. current	A_{rms}		20.6	20.6	18.6		18.6	
N_{max}	Max. speed	$/min$		2300	4000	2300		4000	
F_{max}	Electrical frequency @max. speed:	Hz		192	333	192		333	
η	Efficiency at rated torque:	$\%$		92.9	93.7	93.3		93	
$\eta_{75\%}$	Efficiency at 75% of rated torque:	$\%$		93.6	93	93.6		91.7	
$2p$	Number of poles:	10		Environment:					
J	Rotor inertia	0.00147 $kg.m^2$		Altitude: <1000m					
K_e	Back emf constant at 1000 rpm (25°C)*	90.7 V_{rms}		Thermal class F (according to IEC 60034-1)					
K_t	Torque sensitivity (25°C)	1.45 Nm/A_{rms}		Cooling type: Natural Air cooling					
R_b	Winding resistance(25°C) *	1.12 Ω		Flange 400*400*12mm(ALU)					
L	Winding inductance *	11.2 mH		with flange temperature $\leq T_a$					

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY630EAR

ELECTRONIC DRIVE

DRIVE 6/14

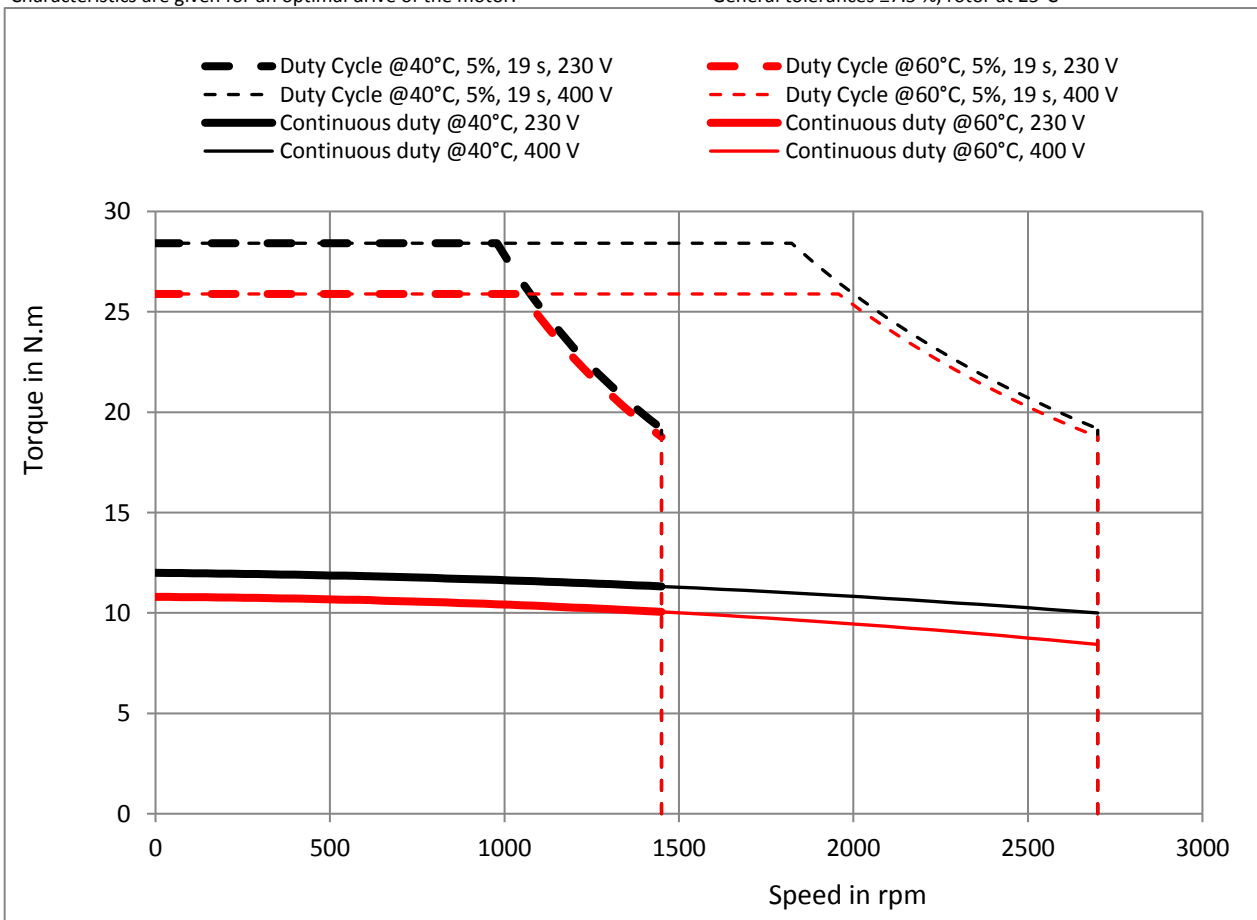
No UL certification

T_a	Max ambient temperature: °C	@40°C				@60°C			
UR	Voltage of the mains: V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW							
M_n	Rated torque **	N.m							
N_n	Rated speed	/min							
I_n	Rated current	A_{rms}							
U_n	Rated voltage *	V_{rms}							
U_{bus}	DC voltage supply when motor is loaded	V							
M_o	Low speed torque **	N.m							
I_o	Permanent current at low speed	A_{rms}							
M_p	Max. torque **	N.m							
I_p	Max. current	A_{rms}							
N_{max}	Max. speed	/min							
F_{max}	Electrical frequency @max. speed:	Hz							
η	Efficiency at rated torque:	%							
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%							
$2p$	Number of poles:	10				Environment:			
J	Rotor inertia	0.00147 $kg.m^2$				Altitude: <1000m			
K_e	Back emf constant at 1000 rpm (25°C)*	137.0 V_{rms}				Thermal class F (according to IEC 60034-1)			
K_t	Torque sensitivity (25°C)	2.19 Nm/A_{rms}				Cooling type: Natural Air cooling			
R_b	Winding resistance(25°C) *	2.43 Ω				Flange 400*400*12mm(ALU)			
L	Winding inductance *	25.6 mH				with flange temperature $\leq T_a$			

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY820EAR

ELECTRONIC DRIVE

DRIVE 11/27

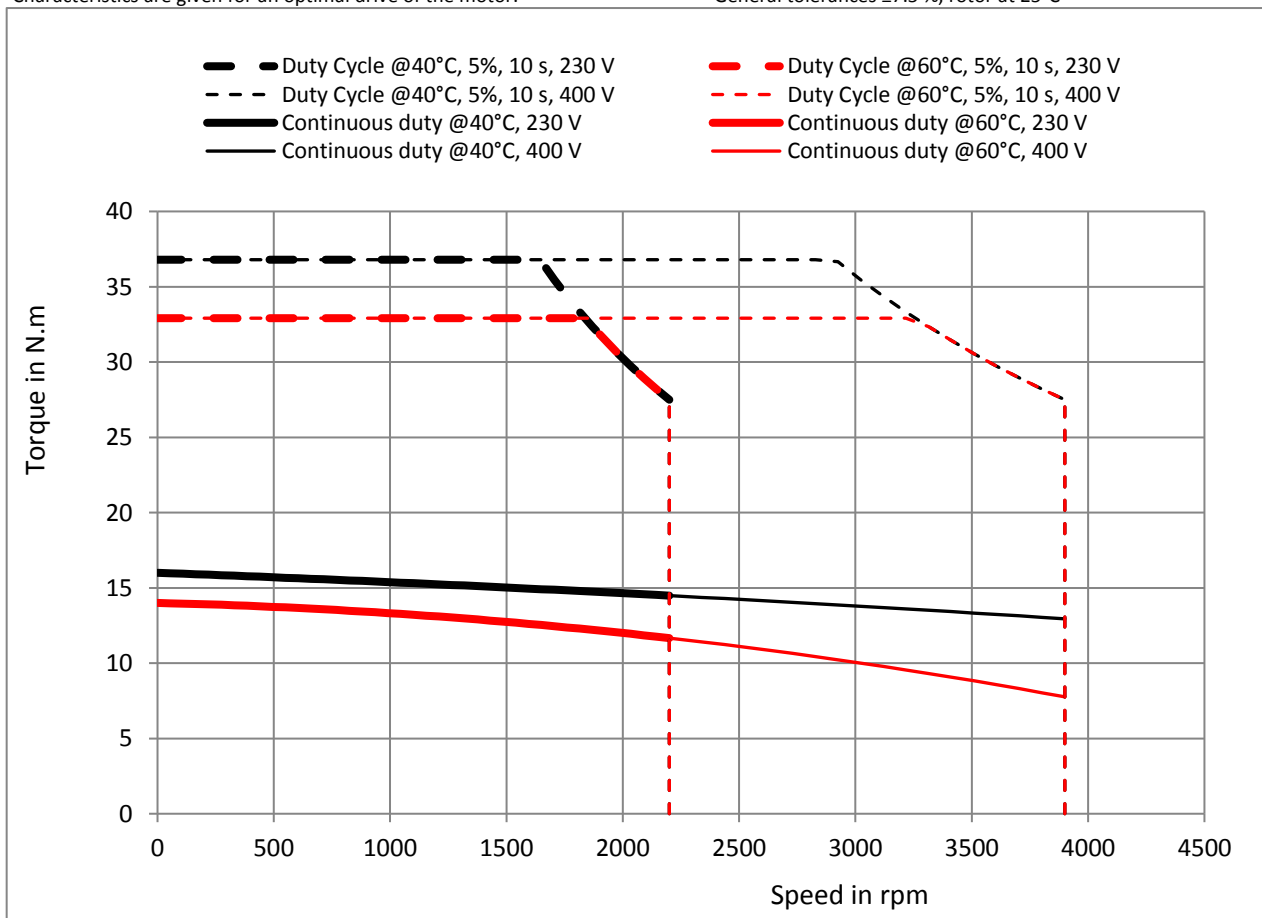
No UL certification

T_a	Max ambient temperature:	°C	@40°C				@60°C			
UR	Voltage of the mains:	V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P_n	Rated power **	kW	3.34		5.29		2.69		3.17	
M_n	Rated torque **	$N.m$	14.5		12.9		11.7		7.76	
N_n	Rated speed	$/min$	2200		3900		2200		3900	
I_n	Rated current	A_{rms}	9.74		8.78		7.85		5.35	
U_n	Rated voltage *	V_{rms}	219		377		214		367	
U_{bus}	DC voltage supply when motor is loaded	V	310		540		310		540	
M_o	Low speed torque **	$N.m$	16		16		14		14	
I_o	Permanent current at low speed	A_{rms}	10.7		10.7		9.32		9.32	
M_p	Max. torque **	$N.m$	36.8		36.8		32.9		32.9	
I_p	Max. current	A_{rms}	26.7		26.7		23.3		23.3	
N_{max}	Max. speed	$/min$	2200		3900		2200		3900	
F_{max}	Electrical frequency @max. speed:	Hz	183		325		183		325	
η	Efficiency at rated torque:	%	92		93.4		92.8		92.9	
$\eta_{75\%}$	Efficiency at 75% of rated torque:	%	93.1		93.3		93.3		91.8	
$2p$	Number of poles:	10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature $\leq T_a$							
J	Rotor inertia	0.0032 $kg.m^2$								
K_e	Back emf constant at 1000 rpm (25°C)*	93.7 V_{rms}								
K_t	Torque sensitivity (25°C)	1.5 Nm/A_{rms}								
R_b	Winding resistance(25°C) *	1.01 Ω								
L	Winding inductance *	8.57 mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY840EAK

ELECTRONIC DRIVE

DRIVE 17/41

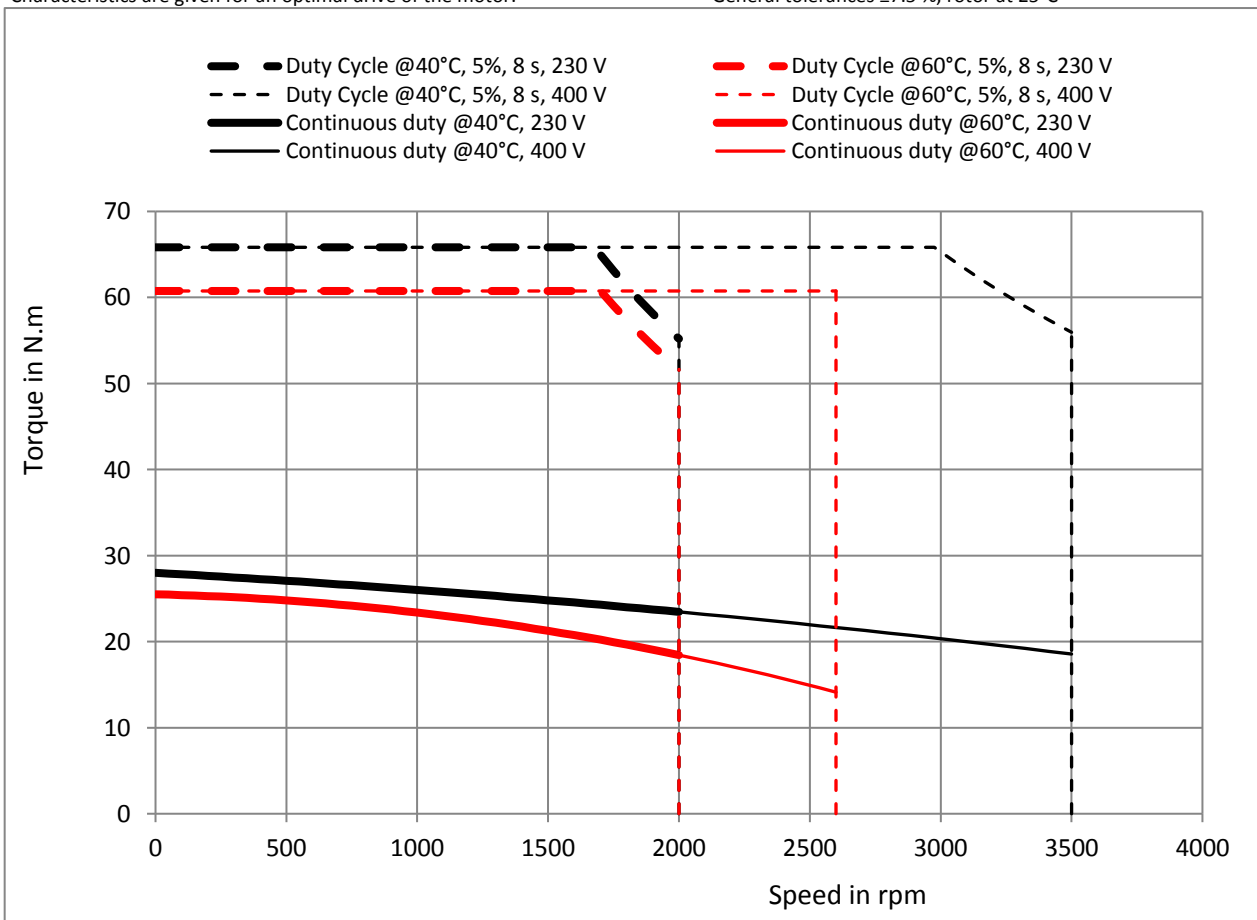
No UL certification

T_a	Max ambient temperature:		°C	@40°C				@60°C			
UR	Voltage of the mains:		V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P _n	Rated power **		kW	4.91		6.8		3.86		3.85	
M _n	Rated torque **		N.m	23.5		18.6		18.4		14.1	
N _n	Rated speed		/min	2000		3500		2000		2600	
I _n	Rated current		A _{rms}	13.7		11		10.8		8.38	
U _n	Rated voltage *		V _{rms}	223		380		220		282	
U _{bus}	DC voltage supply when motor is loaded		V	310		540		310		540	
M _o	Low speed torque **		N.m	28		28		25.5		25.5	
I _o	Permanent current at low speed		A _{rms}	16.2		16.2		14.7		14.7	
M _p	Max. torque **		N.m	65.8		65.8		60.8		60.8	
I _p	Max. current		A _{rms}	40.4		40.4		36.8		36.8	
N _{max}	Max. speed		/min	2000		3500		2000		2600	
F _{max}	Electrical frequency @max. speed:		Hz	167		292		167		217	
η	Efficiency at rated torque:		%	93.7		93.9		93.9		93.7	
η _{75%}	Efficiency at 75% of rated torque:		%	94		93.1		93.8		92.7	
2p	Number of poles:		10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature <= T_a							
J	Rotor inertia		0.0062 kg.m ²								
Ke	Back emf constant at 1000 rpm (25°C)*		108.0 V _{rms}								
Kt	Torque sensitivity (25°C)		1.73 Nm/A _{rms}								
Rb	Winding resistance(25°C) *		0.493 Ω								
L	Winding inductance *		5.42 mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C

BRUSHLESS MOTOR

EY860EAJ

ELECTRONIC DRIVE

DRIVE 18/45

No UL certification

T_a	Max ambient temperature:		°C	@40°C				@60°C			
UR	Voltage of the mains:		V_{rms}	230	VAC	400	VAC	230	VAC	400	VAC
P _n	Rated power **		kW	5.23		6.27		4.4		4.8	
M _n	Rated torque **		$N.m$	34.4		23		29		21.8	
N _n	Rated speed		$/min$	1450		2600		1450		2100	
I _n	Rated current		A_{rms}	14.9		10.2		12.6		9.61	
U _n	Rated voltage *		V_{rms}	217		377		215		306	
U _{bus}	DC voltage supply when motor is loaded		V	310		540		310		540	
M _o	Low speed torque **		$N.m$	41		41		37		37	
I _o	Permanent current at low speed		A_{rms}	17.7		17.7		15.9		15.9	
M _p	Max. torque **		$N.m$	96.7		96.7		88.5		88.5	
I _p	Max. current		A_{rms}	44.2		44.2		39.8		39.8	
N _{max}	Max. speed		$/min$	1450		2600		1450		2100	
F _{max}	Electrical frequency @max. speed:		Hz	121		217		121		175	
η	Efficiency at rated torque:		%	93.5		94.1		93.8		94.1	
η _{75%}	Efficiency at 75% of rated torque:		%	94.1		93.3		94		93.4	
2p	Number of poles:		10	Environment: Altitude: <1000m Thermal class F (according to IEC 60034-1) Cooling type: Natural Air cooling Flange 400*400*12mm(ALU) with flange temperature <= T_a							
J	Rotor inertia	0.0092	$kg.m^2$								
Ke	Back emf constant at 1000 rpm (25°C)*	145.0	V_{rms}								
Kt	Torque sensitivity (25°C)	2.32	Nm/A_{rms}								
Rb	Winding resistance(25°C) *	0.499	Ω								
L	Winding inductance *	6.76	mH								

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances $\pm 7.5\%$, rotor at 25°C