

Engineering motordata (WIN 1239)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	187 V AC (rms)
Rated power	1.5 kW
Rated speed	4500 rpm
Rated torque	3.10 Nm
Rated current	5.15 A (rms)
Peak torque	14.4 Nm
Peak current	24.8 A (rms)
Stall torque	4.8 Nm
Stall current	6.9 A (rms)
No load speed	5230 rpm
EMF constant ±10%	42 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.695 Nm / A (rms)
Torque constant ±10% @ rated load	0.602 Nm / A (rms)
Number of poles	10
Electrical time constant	3.05 ms
Winding terminal resistance	1.234 Ω
Rotary field terminal inductance	3.76 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	0.67 ms
Thermal time constant	30 min
Rotor inertia	1.52 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	3.8 kg

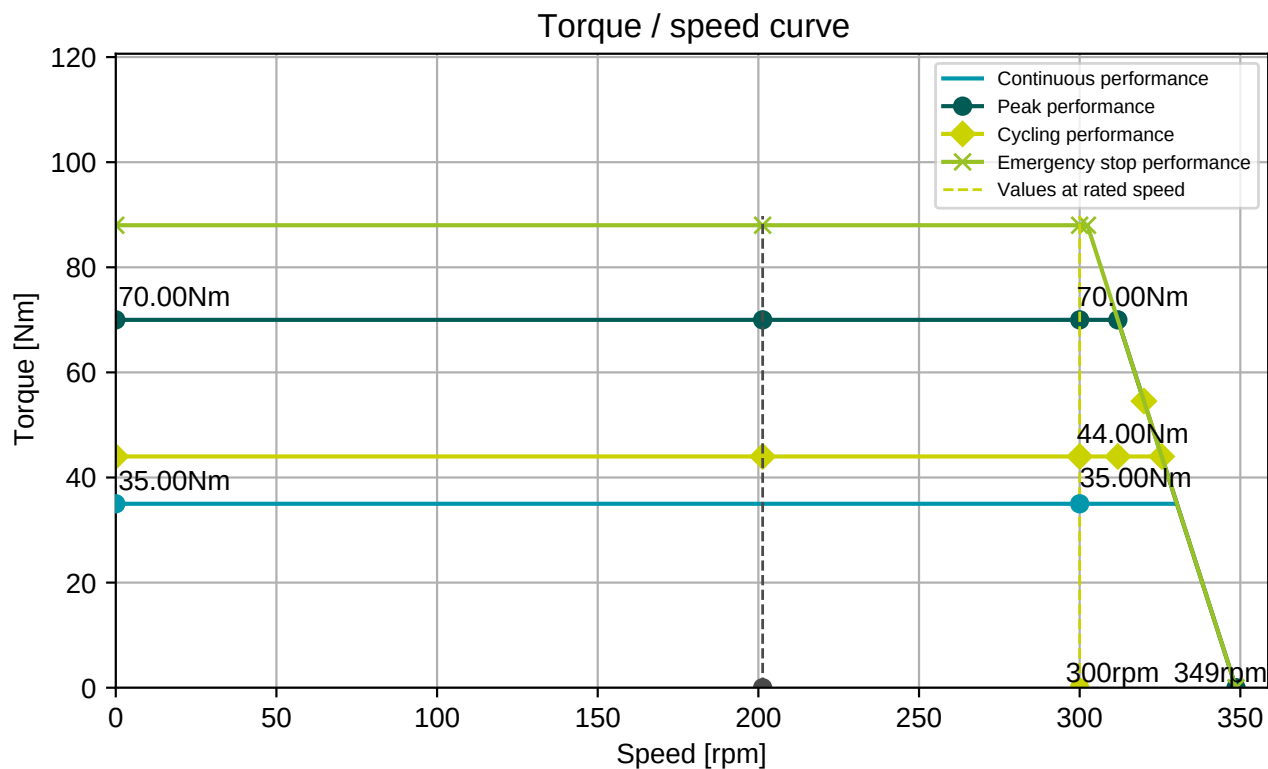
Sensors

Temperature	PT1000 {PT1000}
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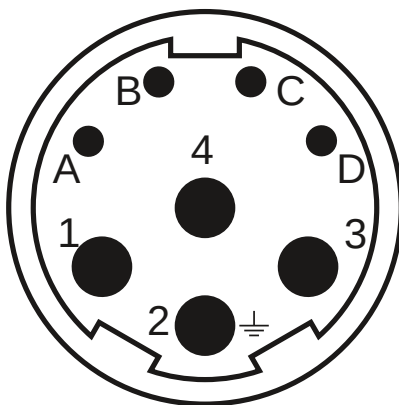
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	15	Radial force for 20'000h	400 N*
Efficiency	96 %*	Radial force for 30'000h	340 N*
Torsional stiffness	2.4 Nm/arcmin	Max. radial force	700 N*
Number of stages	2	Axial force for 20'000h	500 N
Rated output torque	35 Nm	Axial force for 30'000h	450 N
Cycling output torque	44 Nm	Max. axial force	800 N
Max output torque	70 Nm	Tilting moment for 20'000h	14 Nm
Emergency output torque	88 Nm	Tilting moment for 30'000h	12 Nm
Rated input speed	4500 rpm	Max. bending moment	12 Nm
Max input speed	11700 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	1.06 kg
Max. backlash	< 12 arcmin	Input inertia	0.097 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

Lubrication	
Type	Standard
Lubricant	Grease (lifetime lubrication)

Actuator data	
Rated speed	300 rpm
Rated torque	35.00 Nm
Cycling torque	44.00 Nm
Peak torque	70.00 Nm
Emergency stop torque	88.00 Nm
EMF constant ±10%	630.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	8.67 Nm / A (rms)
Total mass	4.86 kg
Output inertia	363.8 kgcm ²


BGC110N00001216000

M23, 8 poles, rotary


Connector 1 (283)

1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	GND/DSL-
D	+Us/DSL+

