

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
Max. axial force 20kh	75 N
Max. radial force 20kh	392 N*
Max. axial force 100kh	44 N
Max. radial force 100kh	229 N*

* Defined for point of action at ½ output shaft length

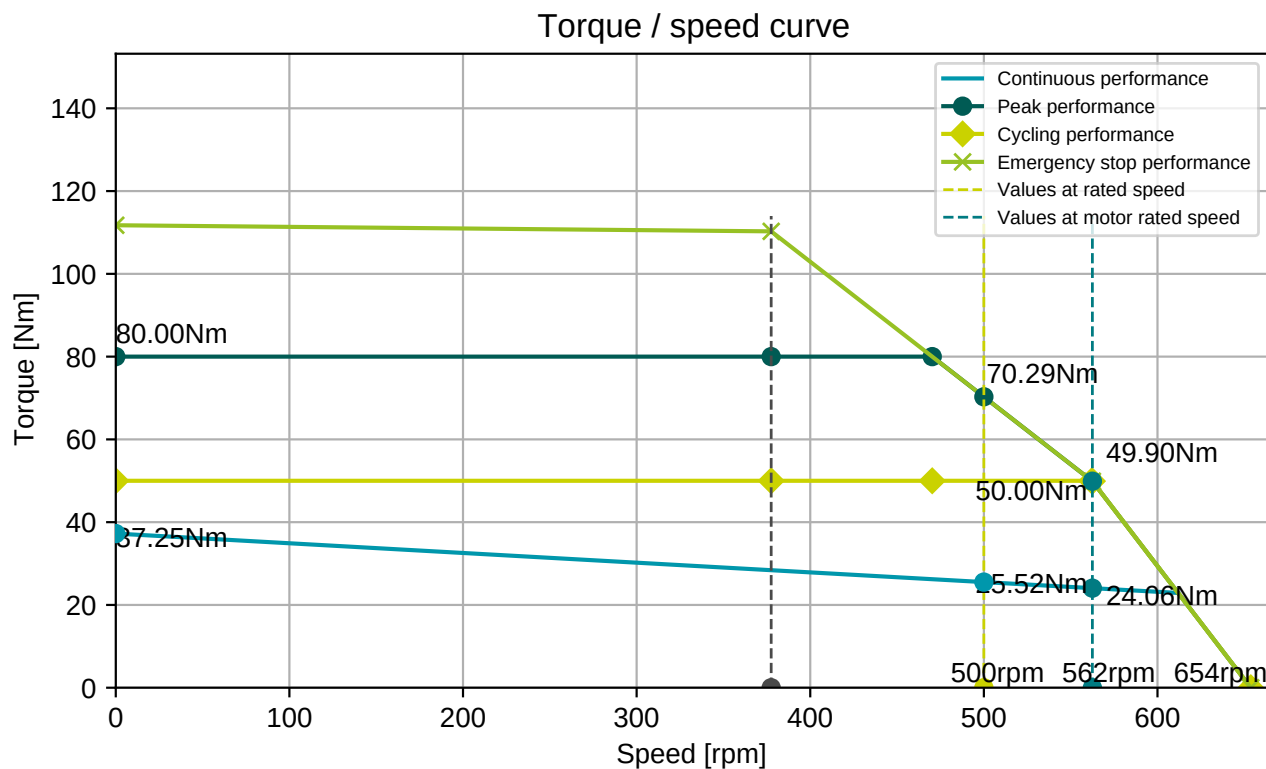
Sensors

Temperature	PT1000 {PT1000}
Feedback	EES37 (HDSL) single-turn, 17 bits

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	8	Radial force for 20'000h	750 N*
Efficiency	97 %*	Radial force for 30'000h	650 N*
Torsional stiffness	8 Nm/arcmin	Max. radial force	1250 N*
Number of stages	1	Axial force for 20'000h	1000 N
Rated output torque	42 Nm	Axial force for 30'000h	900 N
Cycling output torque	50 Nm	Max. axial force	1600 N
Max output torque	80 Nm	Tilting moment for 20'000h	31 Nm
Emergency output torque	190 Nm	Tilting moment for 30'000h	27 Nm
Rated input speed	4000 rpm	Max. bending moment	16 Nm
Max input speed	7000 rpm	Output shaft design	Shaft key
Operating temperature	<-25; 90> °C	Mass	2.13 kg
Max. backlash	< 7 arcmin	Input inertia	0.37 kgcm ²
Service life	20000 h	Protection	IP54
* at rated speed & torque		* Defined for point of action at ½ output shaft length	

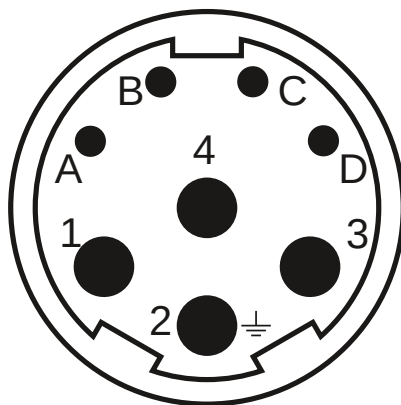
Lubrication	
Type	Standard
Lubricant	Klübersynth GE 14-112

Actuator data	
Rated speed	500 rpm
Rated torque	25.52 Nm
Cycling torque	50.00 Nm
Peak torque	80.00 Nm
Emergency stop torque	115.20 Nm
EMF constant ±10%	336.0 V AC (rms) / 1000rpm
Torque constant ±10% @ rated load	4.67 Nm / A (rms)
Total mass	5.93 kg
Output inertia	121.0 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+

