

Engineering motordata (WIN 1031)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	294 V AC (rms)
Rated power	2.3 kW
Rated speed	1000 rpm
Rated torque	22.00 Nm
Rated current	5.6 A (rms)
Peak torque	72 Nm
Peak current	21.6 A (rms)
Stall torque	24 Nm
Stall current	5.5 A (rms)
No load speed	1450 rpm
EMF constant ±10%	262 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	4.33 Nm / A (rms)
Torque constant ±10% @ rated load	3.93 Nm / A (rms)
Number of poles	10
Electrical time constant	13.25 ms
Winding terminal resistance	3.14 Ω
Rotary field terminal inductance	41.6 mH

Customs info

HS Code	85015220
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Mechanical motor data (setting 48)

Max mechanical speed	6000 rpm
Mech. time constant	0.74 ms
Thermal time constant	47 min
Rotor inertia	25.6 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	13.8 kg
Max. axial force 20kh	149 N
Max. radial force 20kh	782 N*
Max. axial force 100kh	87 N
Max. radial force 100kh	458 N*

* Defined for point of action at ½ output shaft length

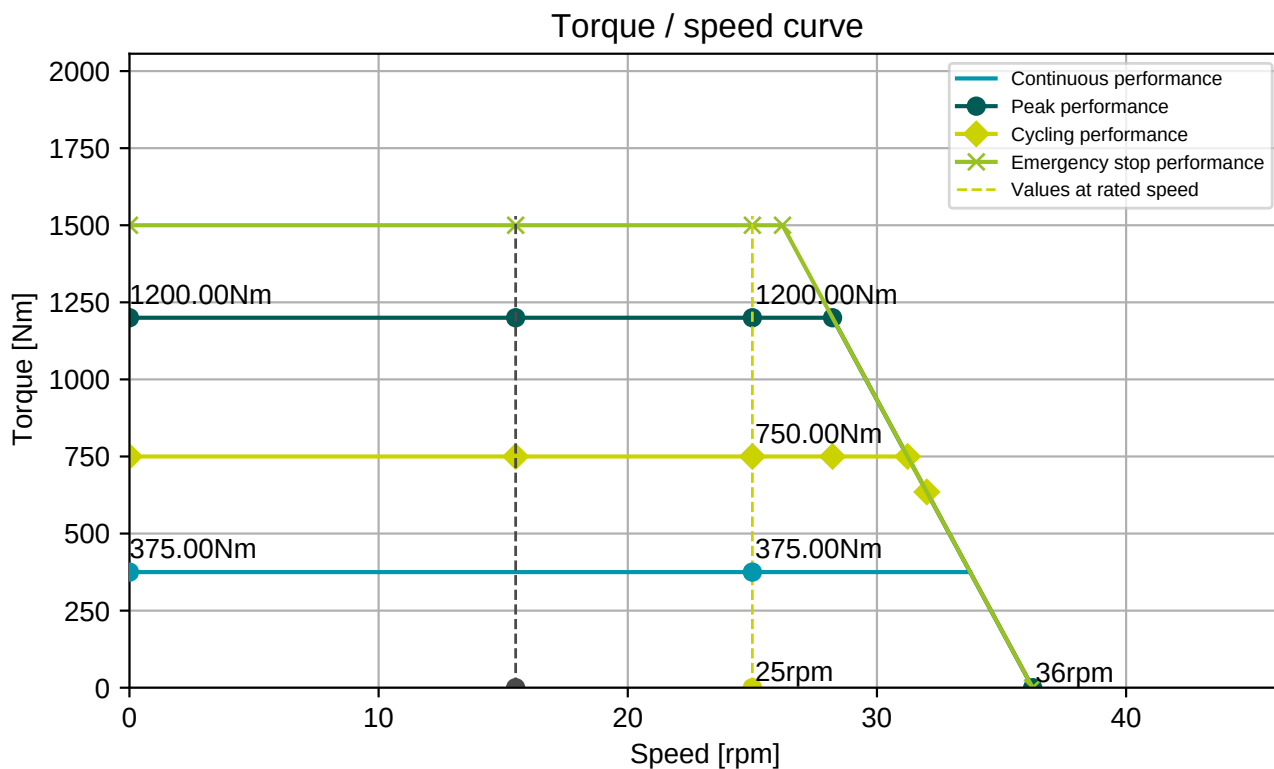
Sensors

Temperature	PT1000 {PT1000}
Feedback	EDS35 (HDSL) single-turn, 24 bits

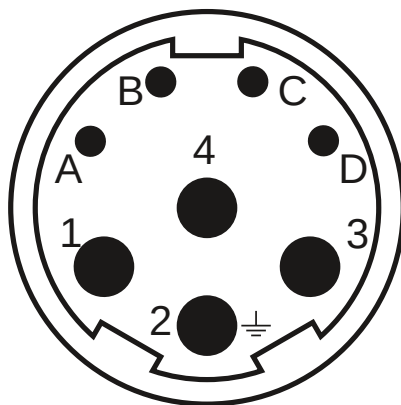
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	40	Radial force for 20'000h	12000 N
Efficiency	95 %*	Radial force for 30'000h	11000 N
Torsional stiffness	251 Nm/arcmin	Max. radial force	12000 N
Number of stages	2	Axial force for 20'000h	8500 N
Rated output torque	375 Nm	Axial force for 30'000h	7500 N
Cycling output torque	750 Nm	Max. axial force	8500 N
Max output torque	1200 Nm	Tilting moment for 20'000h	1219 Nm
Emergency output torque	1500 Nm	Tilting moment for 30'000h	1117 Nm
Rated input speed	3500 rpm	Max. bending moment	80 Nm
Max input speed	8500 rpm	Output shaft design	Flange
Operating temperature	<-25; 90> °C	Mass	14.88 kg
Max. backlash	< 5 arcmin	Input inertia	1.992 kgcm ²
Service life	20000 h	Protection	IP65

* at rated speed & torque

Lubrication		Actuator data	
Type	Standard	Rated speed	25 rpm
Lubricant	Castrol Optigear Synthetic	Rated torque	375.00 Nm
	800/150	Cycling torque	750.00 Nm
		Peak torque	1200.00 Nm
		Emergency stop torque	1500.00 Nm
		EMF constant ±10%	10480.0 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	149.29 Nm / A (rms)
		Total mass	28.68 kg
		Output inertia	44147.2 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+

