

Engineering motordata (WIN 1272)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	115 V AC (rms)
Rated power	113 W
Rated speed	4500 rpm
Rated torque	0.24 Nm
Rated current	0.93 A (rms)
Peak torque	1 Nm
Peak current	4 A (rms)
Stall torque	0.26 Nm
Stall current	0.9 A (rms)
No load speed	12250 rpm
EMF constant ±10%	17.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.289 Nm / A (rms)
Torque constant ±10% @ rated load	0.258 Nm / A (rms)
Number of poles	6
Electrical time constant	1.05 ms
Winding terminal resistance	27.092 Ω
Rotary field terminal inductance	28.4 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	2.80 ms
Thermal time constant	12 min
Rotor inertia	0.05 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	0.6 kg

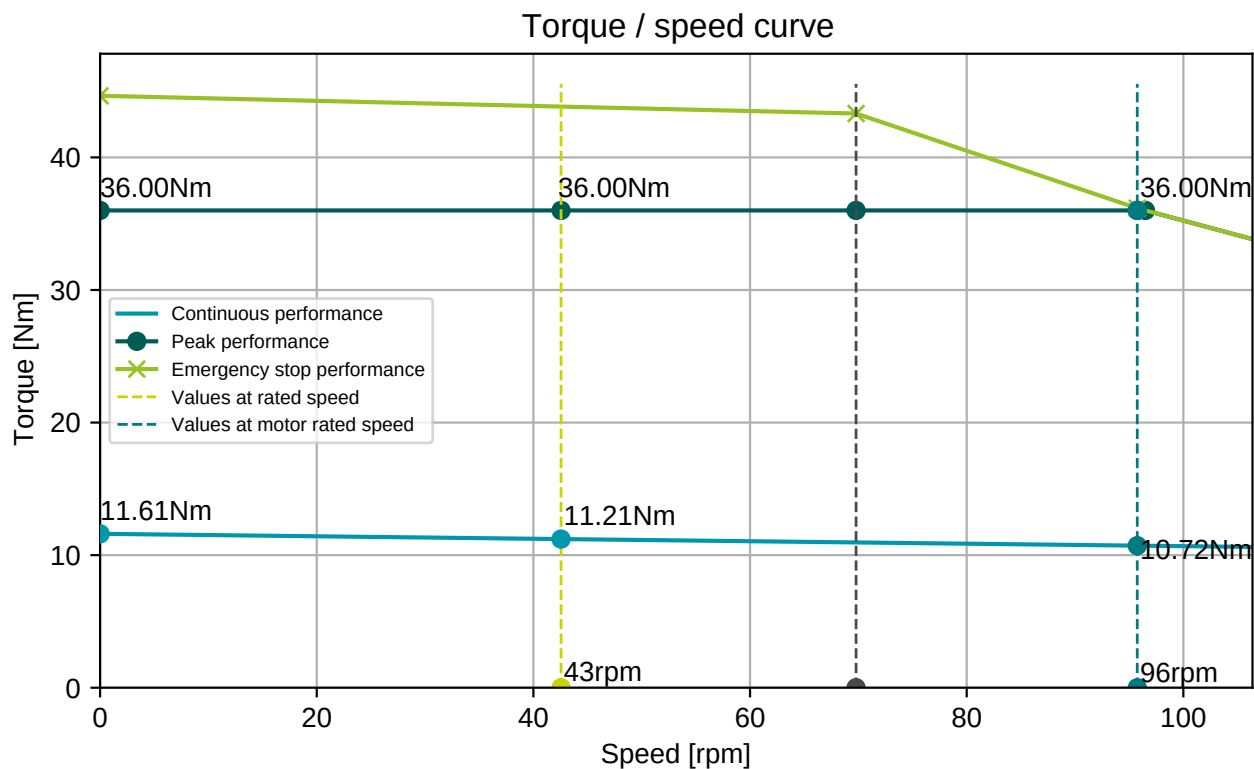
Sensors

Temperature	PT1000 {PT1000}
Feedback	EQI1131 (EnDat 2.2) multi-turn, 19 + 12 bits

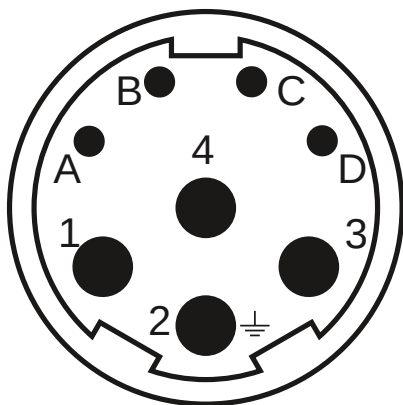
Brake

Braking torque	0.40 Nm
Voltage	24 V DC
Power @20°C	8.0 W
Current @20°C	0.33 A
Inertia	0.02 kgcm ²
Mass	0.10 kg

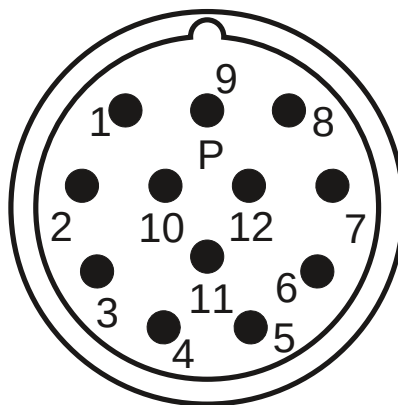
Gearbox engineering data		Gearbox mechanical data	
Gear ratio	47	Max. radial force	1440 N
Efficiency	95 %*	Max. axial force	1900 N
Torsional stiffness	2.5 Nm/arcmin	Output shaft design	Flange
Rated output torque	18 Nm	Mass	0.47 kg
Max output torque	36 Nm	Input inertia	0.007 kgcm ²
Emergency output torque	90 Nm	Protection	IP64
Rated input speed	2000 rpm	Actuator data	
Max input speed	5000 rpm	Rated speed	43 rpm
Operating temperature	<-25; 50> °C	Rated torque	11.21 Nm
Max. backlash	< 1.5 arcmin	Peak torque	36.00 Nm
Service life	6000 h	Emergency stop torque	47.00 Nm
* at rated speed & torque		EMF constant ±10%	822.5 V AC (rms) / 1000rpm
		Torque constant ±10% @ rated load	11.52 Nm / A (rms)
Lubrication		Total mass	1.17 kg
Type	Standard	Output inertia	125.9 kgcm ²
Lubricant	TRIBOL GR TT 1 PD		


BGC110N00001216000

M23, 8 poles, rotary


AGC052N00001215000

M23, 12 poles, rotary


Connector 1 (9)

1	U
4	V
3	W
2	PE
A	Brake+
B	Brake-
C	
D	

Connector 2 (293)

1	Vcc (+5V)
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-
9	Vcc sensor
10	GND sensor

