

Engineering data (WIN 742)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	146 V AC (rms)
Rated power	1.0 kW
Rated speed	6000 rpm
Rated torque	1.65 Nm
Rated current	5.52 A (rms)
Peak torque	6.15 Nm
Peak current	20.5 A (rms)
Stall torque	2.05 Nm
Stall current	5.1 A (rms)
No load speed	8950 rpm
EMF constant ±10%	24.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.41 Nm / A (rms)
Torque constant ±10% @ rated load	0.30 Nm / A (rms)
Number of poles	10
Electrical time constant	2.44 ms
Winding terminal resistance	1.68 Ω
Rotary field terminal inductance	4.1 mH

Customs info

HS Code	85015220
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Mechanical data (setting 48)

Max mechanical speed	12000 rpm
Mech. time constant	0.97 ms
Thermal time constant	23 min
Rotor inertia	0.55 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	2 kg
Max. axial force 20kh	51 N
Max. radial force 20kh	266 N*
Max. axial force 100kh	30 N
Max. radial force 100kh	156 N*

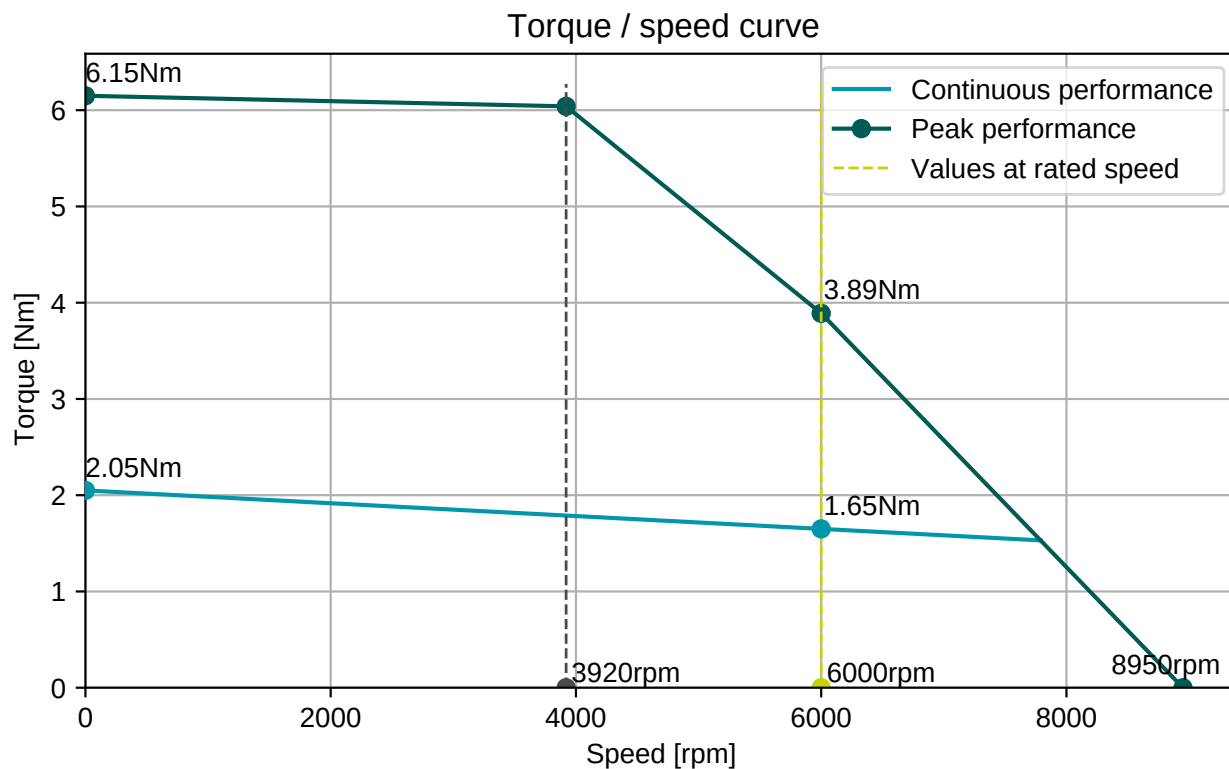
* Defined for point of action at ½ output shaft length

Sensors

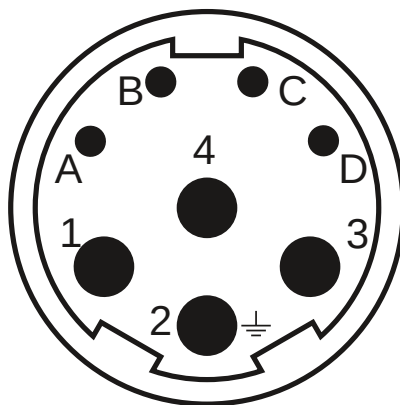
Temperature	PT1000 {PT1000}
Feedback	EKM36 (HDSL) multi-turn, 17 + 12 bits

Brake

Braking torque	4.50 Nm
Voltage	24 V DC
Power @20°C	12.0 W
Current @20°C	0.50 A
Inertia	0.20 kgcm ²
Mass	0.47 kg


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+

