

Engineering motordata (WIN 1309)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	269 V AC (rms)
Rated power	1.3 kW
Rated speed	3000 rpm
Rated torque	4.00 Nm
Rated current	3.16 A (rms)
Peak torque	15 Nm
Peak current	15.8 A (rms)
Stall torque	4.4 Nm
Stall current	3.28 A (rms)
No load speed	4680 rpm
EMF constant ±10%	81 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	1.34 Nm / A (rms)
Torque constant ±10% @ rated load	1.27 Nm / A (rms)
Number of poles	10
Electrical time constant	6.33 ms
Winding terminal resistance	2.75 Ω
Rotary field terminal inductance	17.4 mH

Customs info

HS Code	85015220
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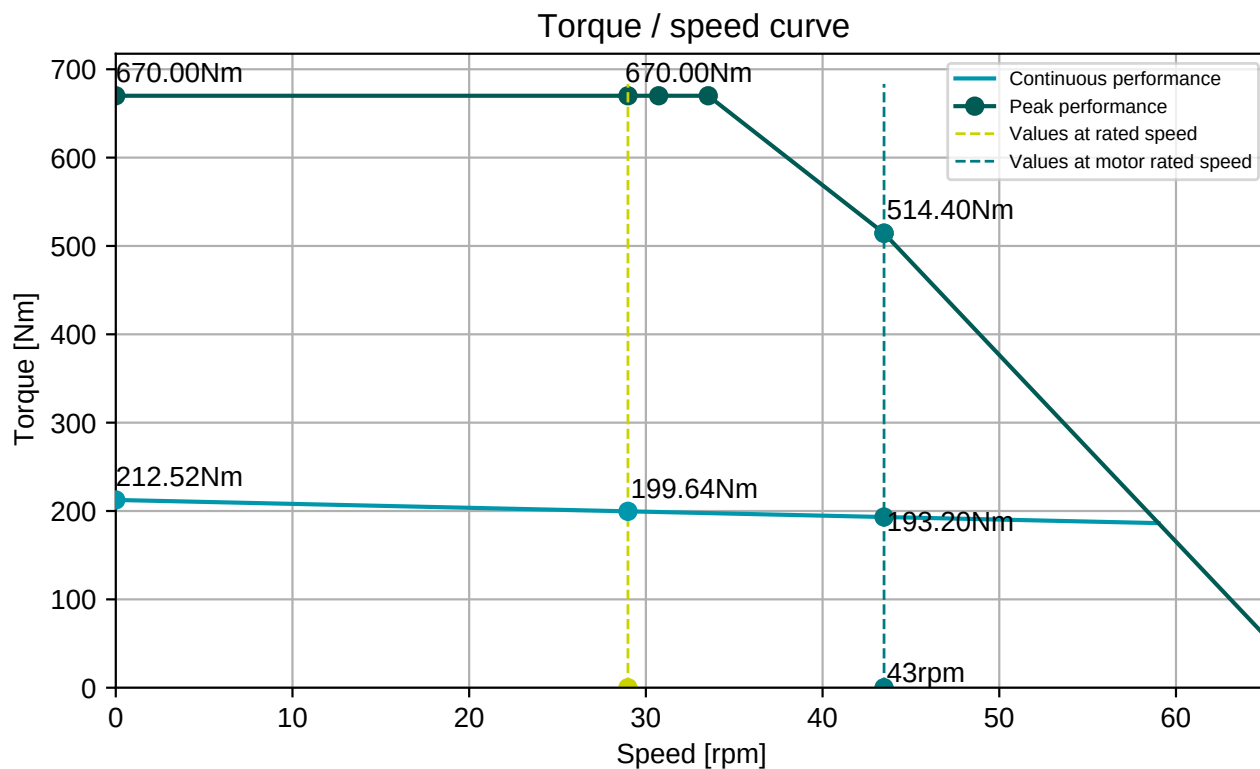
Mechanical motor data (setting 48)

Max mechanical speed	9000 rpm
Mech. time constant	1.25 ms
Thermal time constant	30 min
Rotor inertia	4.7 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	10 kg

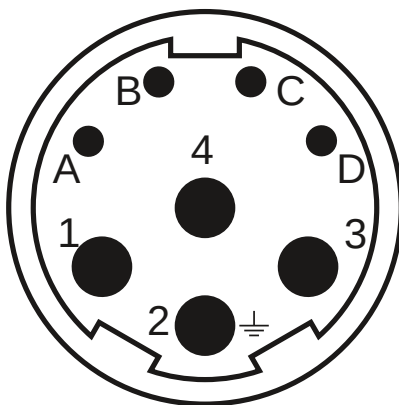
Sensors

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

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	69	Max. radial force	11500 N
Efficiency	70 %*	Max. axial force	17000 N
Torsional stiffness	22 Nm/arcmin	Output shaft design	Flange
Rated output torque	268 Nm	Mass	7.6 kg
Max output torque	670 Nm	Input inertia	5.5 kgcm ²
Rated input speed	2000 rpm	Protection	IP64
Max input speed	4500 rpm	Actuator data	
Operating temperature	<-25; 50> °C	Rated speed	29 rpm
Max. backlash	< 1 arcmin	Rated torque	199.64 Nm
Service life	6000 h	Peak torque	670.00 Nm
* at rated speed & torque		EMF constant ±10%	5589.0 V AC (rms) / 1000rpm
Lubrication		Torque constant ±10% @	61.14 Nm / A (rms)
Type	Standard	rated load	
Lubricant	Grease Castrol TRIBOL GR TT 1 PD	Total mass	17.60 kg
		Output inertia	48562.2 kgcm ²


BEA120N00000200000

M23, 8 poles, straight


Connector 1 (283)

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

