

Engineering data (WIN 745)

DC bus voltage	320 V DC
Nominal AC voltage	220 V AC (rms)
Rated voltage	172 V AC (rms)
Rated power	401 W
Rated speed	4500 rpm
Rated torque	0.85 Nm
Rated current	1.7 A (rms)
Peak torque	3.8 Nm
Peak current	8.4 A (rms)
Stall torque	0.95 Nm
Stall current	1.82 A (rms)
No load speed	6950 rpm
EMF constant ±10%	31.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.52 Nm / A (rms)
Torque constant ±10% @ rated load	0.50 Nm / A (rms)
Number of poles	6
Electrical time constant	1.46 ms
Winding terminal resistance	13.05 Ω
Rotary field terminal inductance	19 mH

Customs info

HS Code	85015100
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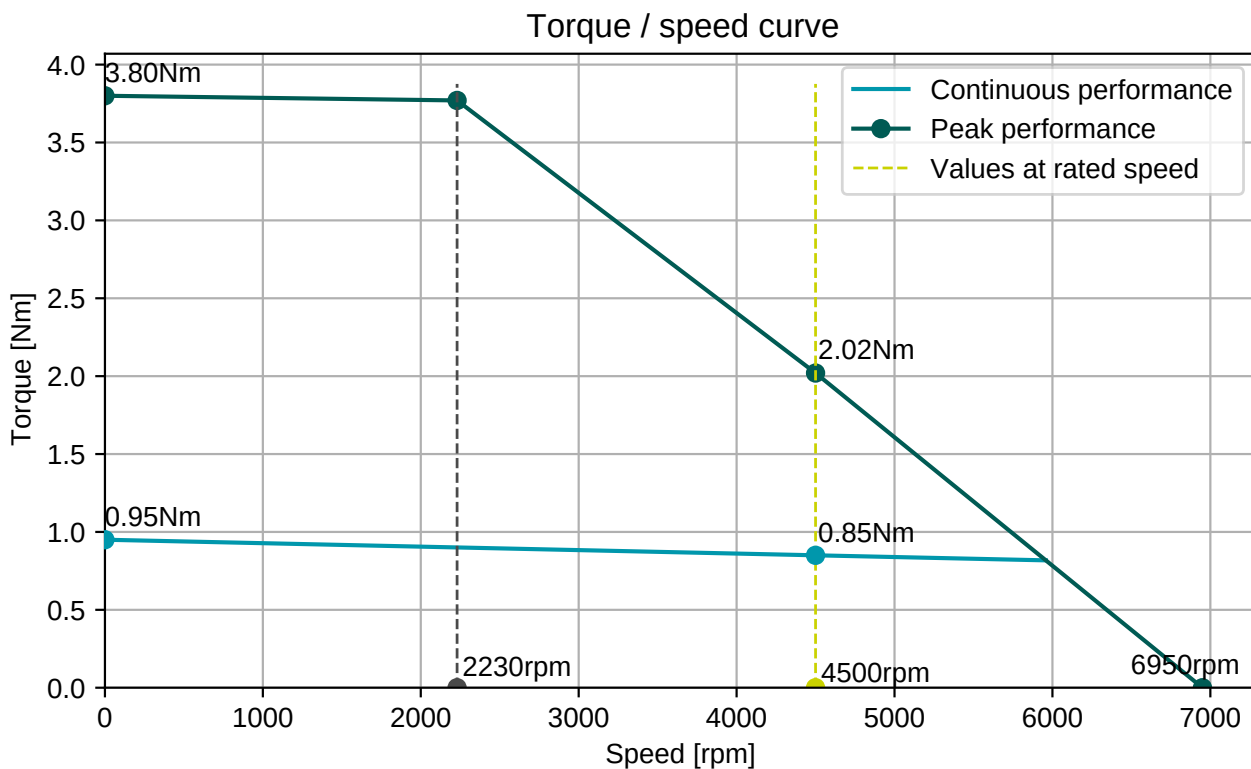
Mechanical data (setting 49)

Max mechanical speed	12000 rpm
Mech. time constant	0.92 ms
Thermal time constant	18 min
Rotor inertia	0.11 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection
Motor-only mass	1.27 kg
Max. axial force 20kh	42 N
Max. radial force 20kh	222 N*
Max. axial force 100kh	25 N
Max. radial force 100kh	130 N*

* Defined for point of action at ½ output shaft length

Sensors

Temperature	PT1000 {PT1000}
Feedback	SKM36 (Hiperface) multi-turn, 128 sin/cos+12bits


BGC110N00001216000

M23, 8 poles, rotary


AGC113N00001215000

M23, 17 poles, rotary


Connector 1 (9)

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

Connector 2 (130)

1/9	SIN/REFSIN
3/11	COS/REFCOS
5/13	DATA/DATA-
4/2	Us/GND
14/7	Therm

