

Engineering data (WIN 1142)

DC bus voltage	48 V DC
Nominal AC voltage	33 V AC (rms)
Rated voltage	26 V AC (rms)
Rated power	351 W
Rated speed	1000 rpm
Rated torque	3.35 Nm
Rated current	10.96 A (rms)
Peak torque	10.5 Nm
Peak current	38.2 A (rms)
Stall torque	3.5 Nm
Stall current	10.6 A (rms)
No load speed	1640 rpm
EMF constant ±10%	20 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.33 Nm / A (rms)
Torque constant ±10% @ rated load	0.31 Nm / A (rms)
Number of poles	10
Electrical time constant	2.89 ms
Winding terminal resistance	0.45 Ω
Rotary field terminal inductance	1.3 mH

Customs info

HS Code	85015100
---------	----------

Mechanical data (setting 29)

Max mechanical speed	12000 rpm
Mech. time constant	0.74 ms
Thermal time constant	27 min
Rotor inertia	1.04 kgcm ²
Protection	IP65
Color	EPOX3 (RAL 9005)
Cooling	Convection
Max. axial force 20kh	108 N
Max. radial force 20kh	569 N*
Max. axial force 100kh	63 N
Max. radial force 100kh	332 N*

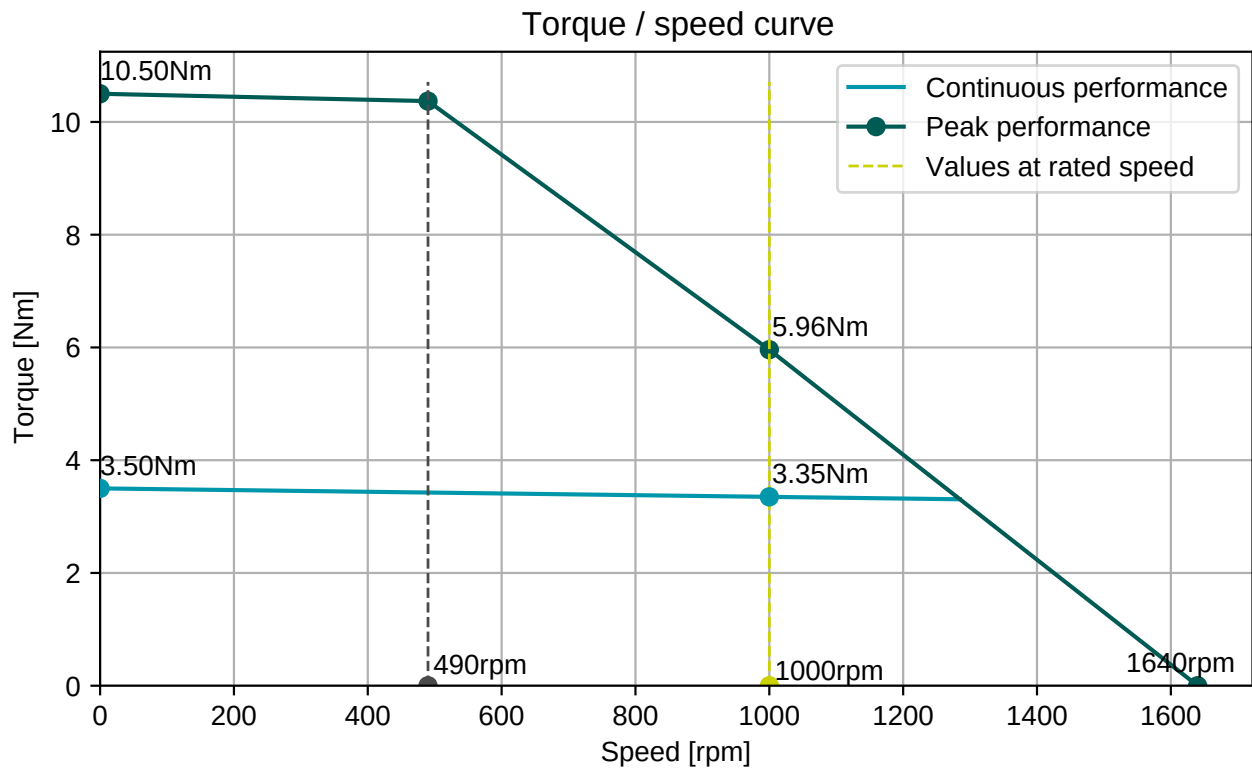
* Defined for point of action at ½ output shaft length

Sensors

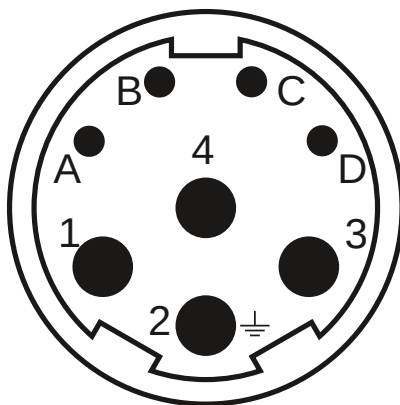
Temperature	PT1000 {PT1000}
Feedback	ELM35 (24+12 bits, BISS-C, multi-turn)

Brake

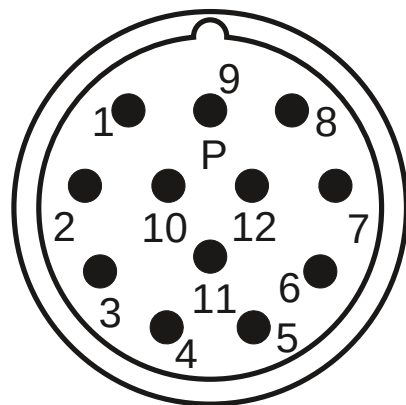
Braking torque	4.50 Nm
Voltage	24 V DC
Power @20°C	12.0 W
Current @20°C	0.50 A
Inertia	0.20 kgcm ²
Mass	0.47 kg


BFC110N00000207000

M23, 8 poles, rectangular


AFC114N00000214000

M23, 12 poles, rectangular


Connector 1 (9)

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

Connector 2 (458)

1	Vcc
2	GND
3	DATA
4	DATA-
5	CLOCK
6	CLOCK-
7	Therm+
8	Therm-

