

Engineering data (WIN -100100)

DC bus voltage	28 V DC
Nominal AC voltage	18 V AC (rms)
Rated voltage	13 V AC (rms)
Rated power	185 W
Rated speed	500 rpm
Rated torque	3.53 Nm
Rated current	13.24 A (rms)
Peak torque	10.98 Nm
Peak current	58.08 A (rms)
Stall torque	3.66 Nm
Stall current	13.41 A (rms)
No load speed	1090 rpm
EMF constant ±10%	16.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.27 Nm / A (rms)
Torque constant ±10% @ rated load	0.27 Nm / A (rms)
Number of poles	10
Electrical time constant	8.82 ms
Winding terminal resistance	0.203 Ω
Rotary field terminal inductance	1.79 mH

Customs info

HS Code	85015100
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Mechanical data (setting 0)

Max mechanical speed	9000 rpm
Mech. time constant	0.80 ms
Thermal time constant	29 min
Rotor inertia	1.7 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

Sensors

Temperature	PT1000 {PT1000}
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Brake

Braking torque	9.00 Nm
Voltage	24 V DC
Power @20°C	18.0 W
Current @20°C	0.75 A
Inertia	0.60 kgcm ²
Mass	0.82 kg

Note

Parameters are modified for requirements:

- For two hours continuously at environmental temperature 60°C.
- Working Point - Peak torque/current for 3 [sec] maximum, duty cycle 30%, duration of 5 minutes at environmental temperature 60°C.

We assume Halls sensors + BISS-C. The resolution should be specified.



