

Engineering data (WIN -100101)

DC bus voltage	28 V DC
Nominal AC voltage	18 V AC (rms)
Rated voltage	12 V AC (rms)
Rated power	192 W
Rated speed	500 rpm
Rated torque	3.66 Nm
Rated current	12.9 A (rms)
Peak torque	12.25 Nm
Peak current	63.48 A (rms)
Stall torque	3.79 Nm
Stall current	13.09 A (rms)
No load speed	1020 rpm
EMF constant ±10%	17.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.29 Nm / A (rms)
Torque constant ±10% @ rated load	0.28 Nm / A (rms)
Number of poles	10
Electrical time constant	4.35 ms
Winding terminal resistance	0.193 Ω
Rotary field terminal inductance	0.84 mH

Customs info

HS Code	85015100
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Mechanical data (setting 0)

Max mechanical speed	12000 rpm
Mech. time constant	0.60 ms
Thermal time constant	36 min
Rotor inertia	1.5 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

Sensors

Temperature	PT1000 {PT1000}
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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

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.



