

Engineering motordata (WIN 1435)

DC bus voltage	560 V DC
Nominal AC voltage	380 V AC (rms)
Rated voltage	115 V AC (rms)
Rated power	113 W
Rated speed	4500 rpm
Rated torque	0.24 Nm
Rated current	0.93 A (rms)
Peak torque	1 Nm
Peak current	4 A (rms)
Stall torque	0.26 Nm
Stall current	0.9 A (rms)
No load speed	21190 rpm
EMF constant ±10%	17.5 V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.289 Nm / A (rms)
Torque constant ±10% @ rated load	0.258 Nm / A (rms)
Number of poles	6
Electrical time constant	1.05 ms
Winding terminal resistance	27.092 Ω
Rotary field terminal inductance	28.4 mH

Customs info

HS Code	85015100
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Mechanical motor data (setting 29)

Max mechanical speed	12000 rpm
Mech. time constant	2.80 ms
Thermal time constant	12 min
Rotor inertia	0.05 kgcm ²
Protection	IP64
Color	RAL 9005
Cooling	Convection

Sensors

Temperature	PT1000 {PT1000}
Feedback	ECI1118 (EnDat 2.1), single-turn, 16 imp. ot. 1 Vpp, 18 bits

Gearbox engineering data		Gearbox mechanical data	
Gear ratio	63	Max. radial force	1440 N
Efficiency	95 %*	Max. axial force	1900 N
Torsional stiffness	2.5 Nm/arcmin	Output shaft design	Flange
Rated output torque	18 Nm	Mass	0.47 kg
Max output torque	36 Nm	Input inertia	0.007 kgcm ²
Emergency output torque	90 Nm	Protection	IP64
Rated input speed	2000 rpm	Actuator data	
Max input speed	5000 rpm	Rated speed	32 rpm
Operating temperature	<-25; 50> °C	Rated torque	15.03 Nm
Max. backlash	< 1.5 arcmin	Peak torque	36.00 Nm
Service life	6000 h	Emergency stop torque	63.00 Nm
<i>* at rated speed & torque</i>		EMF constant ±10%	1102.5 V AC (rms) / 1000rpm
Lubrication		Torque constant ±10% @ rated load	15.45 Nm / A (rms)
Type	Standard	Output inertia	226.2 kgcm ²
Lubricant	TRIBOL GR TT 1 PD		



