

Product data sheet

Characteristics

SH31003P12F2000

servo motor SH3 100

8Nm,key,multi,brake,90°conn.IP54/IP65,6k RPM



Main

Range compatibility	PacDrive 3
Device short name	SH3.....P
Product or component type	Servo motor

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	6.6 A
Continuous stall torque	8 N.m at 115...480 V three phase
Continuous power	2400 W
Peak stall torque	28.3 N.m at 115...480 V three phase
Nominal output power	790 W at 115 V single phase 1470 W at 230 V single phase 2390 W at 400 V three phase 2560 W at 480 V three phase
Nominal torque	5.1 N.M at 480 V three phase 7.5 N.M at 115 V single phase 7 N.M at 230 V single phase 5.7 N.m at 400 V three phase
Nominal speed	1000 rpm at 115 V single phase 2000 rpm at 230 V single phase 4000 rpm at 400 V three phase 4800 rpm at 480 V three phase
Maximum current I _{rms}	28.3 A
Shaft end	Parallel key
Shaft diameter	19 mm
Shaft length	40 mm
Key width	6 mm
IP degree of protection	IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder type	Absolute multturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	9 N.m
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Straight connector
Torque constant	1.22 N.m/A at 120 °C

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Back emf constant	77 V/krpm at 20 °C
Number of motor poles	4
Rotor inertia	3.838 kg.cm ²
Stator resistance	1.43 Ohm
Stator inductance	13.45 mH
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	271.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9.0 mm
Circle diameter of the mounting holes	115 mm
Net weight	8 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	30.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	8.2 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

Warranty	18 months
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