

Product datasheet

Characteristics

SH31001P12F1000
servo motor SH3 100
3,3Nm,key,multi,brake,str.conn,IP54/IP65,6k
RPM



Main

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

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	3.5 A
Continuous stall torque	3.3 N.m at 115...480 V three phase
Peak stall torque	9.6 N.m at 115...480 V three phase
Nominal output power	410 W at 115 V three phase 790 W at 230 V three phase 1410 W at 400 V three phase 1630 W at 480 V three phase
Nominal torque	3.15 N.m at 115 V three phase 3 N.m at 230 V three phase 2.7 N.m at 400 V three phase 2.6 N.m at 480 V three phase
Nominal speed	1250 rpm at 115 V three phase 2500 rpm at 230 V three phase 5000 rpm at 400 V three phase 6000 rpm at 480 V three phase
Maximum current I_{rms}	12 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder type	Absolute multiturn 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
Torque constant	0.89 N.m/A at 120 °C
Back emf constant	60 V/krpm at 20 °C
Number of motor poles	4
Rotor inertia	2.018 kg.cm²
Stator resistance	3.8 Ohm
Stator inductance	27.15 mH
Maximum radial force Fr	900 N at 1000 rpm 720 N at 2000 rpm 630 N at 3000 rpm 570 N at 4000 rpm 530 N at 5000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	199.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	4.8 kg

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
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

Contractual warranty

Warranty	18 months
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