

Product datasheet

Characteristics

SH31403P11F1000
servo motor SH3 140
27,8Nm,key,single,brake,str.conn,IP54/IP65,4k
RPM



Main

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

Complementary

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	17.6 A
Continuous stall torque	27.8 N.m at 115...480 V three phase
Peak stall torque	90.2 N.m at 115...480 V three phase
Nominal output power	1940 W at 115 V three phase 3330 W at 230 V three phase 4050 W at 400 V three phase 3430 W at 480 V three phase
Nominal torque	24.7 N.m at 115 V three phase 21.2 N.m at 230 V three phase 12.9 N.m at 400 V three phase 9.1 N.m at 480 V three phase
Nominal speed	750 rpm at 115 V three phase 1500 rpm at 230 V three phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase
Maximum current I_{rms}	61 A
Shaft end	Parallel key
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 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 single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	36 N.m
Mounting support	International standard flange
Motor flange size	140 mm
Torque constant	1.58 N.m/A at 120 °C
Back emf constant	105 V/krpm at 20 °C
Number of motor poles	5
Rotor inertia	23.44 kg.cm ²
Stator resistance	0.4 Ohm
Stator inductance	7.72 mH
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1670 N at 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	365.5 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	23.1 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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