

Product data sheet

Characteristics

SH31402P12F2000

servo motor SH3 140

19,5Nm,key,multi,brake,90°conn.IP54/IP65,4k RPM



Main

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

Complementary

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	13.2 A
Continuous stall torque	19.5 N.m at 115...480 V three phase
Continuous power	3900 W
Peak stall torque	60.1 N.m at 115...480 V three phase
Nominal output power	1460 W at 115 V single phase 2690 W at 230 V single phase 3860 W at 400 V three phase 3660 W at 480 V three phase
Nominal torque	18.6 N.M at 115 V single phase 17.1 N.M at 230 V single phase 12.3 N.M at 400 V three phase 9.7 N.m at 480 V three phase
Nominal speed	750 rpm at 115 V single phase 1500 rpm at 230 V single phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase
Maximum current I _{rms}	44.1 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 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	23 N.m
Mounting support	International standard flange
Motor flange size	140 mm
Electrical connection	Rotatable right angled connector
Torque constant	1.47 N.m/A at 120 °C

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Back emf constant	101 V/krpm at 20 °C
Number of motor poles	5
Rotor inertia	14.48 kg.cm ²
Stator resistance	0.6 Ohm
Stator inductance	11.225 mH
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	310.5 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
Net weight	17.7 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	18.7 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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