SH31002P12A2000

servo motor SH3 100 5,8Nm,key,multi,nobrake,90°conn.IP54/IP65,6k RPM





Main

Range compatibility	PacDrive 3	
Device short name	SH3P	
Product or component type	Servo motor	

Complementary

I		
Maximum mechanical speed	6000 rpm	
[Us] rated supply voltage	115480 V	
Network number of phases	Three phase	
Continuous stall current	4.8 A	
Continuous stall torque	5.8 N.m at 115480 V three phase	
Continuous power	1900 W	
Peak stall torque	18.3 N.m at 115480 V three phase	
Nominal output power	580 W at 115 V single phase 1090 W at 230 V single phase 1930 W at 400 V three phase 2210 W at 480 V three phase	
Nominal torque	5.5 N.M at 115 V single phase 5.2 N.M at 230 V single phase 4.6 N.M at 400 V three phase 4.4 N.m at 480 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 Irms	17.1 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 multiturn SinCos Hiperface	
Speed feedback resolution	128 periods	
Holding brake	Without	
Mounting support	International standard flange	
Motor flange size	100 mm	
Electrical connection	Rotatable right angled connector	
Torque constant	1.21 N.m/A at 120 °C	
Back emf constant	77 V/krpm at 20 °C	

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Number of motor poles	4
Rotor inertia	2.31 kg.cm²
Stator resistance	2.4 Ohm
Stator inductance	19.5 mH
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	204.5 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	5.8 kg

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	21.0 cm	
Package 1 Width	18.0 cm	
Package 1 Length	35.6 cm	
Package 1 Weight	6.6 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

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	Warranty	18 months	
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