

Product data sheet

Characteristics

SH31001P12A2000

servo motor SH3 100

3,3Nm,key,multi,nobrake,90°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	1630 W at 480 V three phase 1410 W at 400 V three phase 790 W at 230 V three phase 410 W at 115 V three phase
Nominal torque	2.6 N.m at 480 V three phase 2.7 N.m at 400 V three phase 3 N.m at 230 V three phase 3.15 N.m at 115 V three phase
Nominal speed	6000 rpm at 480 V three phase 5000 rpm at 400 V three phase 2500 rpm at 230 V three phase 1250 rpm at 115 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	IP65 (shaft bushing) conforming to EN/IEC 60034-5 IP65 (motor) conforming to EN/IEC 60034-5 IP54 (shaft bushing without shaft seal ring) conforming to EN/IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Holding torque	9 N.m
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right angled connector
Torque constant	0.89 N.m/A at -20...40 °C
Back emf constant	60 V/krpm at 20 °C

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Number of motor poles	4
Rotor inertia	1.4 kg.cm ²
Stator resistance	3.8 Ohm at -20...40 °C
Stator inductance	27.15 mH at -20...40 °C
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	168.5 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	4.3 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1036 -  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Need no specific recycling operations