

# Product data sheet

## Characteristics

# SH31004P11F2000

## servo motor SH3 100

### 10Nm,key,single,brake,90°conn.IP54/IP65,6k RPM



#### Main

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

#### Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	6.2 A
Continuous stall torque	10 N.m at 115...480 V three phase
Continuous power	2500 W
Peak stall torque	40.5 N.m at 115...480 V three phase
Nominal output power	780 W at 115 V single phase 1490 W at 230 V single phase 2480 W at 400 V three phase 2600 W at 480 V three phase
Nominal torque	9.9 N.M at 115 V single phase 9.5 N.M at 230 V single phase 7.9 N.M at 400 V three phase 6.9 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 <sub>rms</sub>	32.3 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 IEC 60034-5 IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	12 N.m
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Straight connector
Torque constant	1.62 N.m/A at 120 °C

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Back emf constant	103 V/krpm at 20 °C
Number of motor poles	4
Rotor inertia	5.245 kg.cm <sup>2</sup>
Stator resistance	1.81 Ohm
Stator inductance	18.35 mH
Maximum radial force Fr	1070 N at 1000 rpm 850 N at 2000 rpm 740 N at 3000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	307.5 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	9.9 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	11.1 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
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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