

# Product data sheet

## Characteristics

**SH31403P01F2000**  
servo motor SH3 140  
27,8Nm,nokey,single,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	17.6 A
Continuous stall torque	27.8 N.m at 115...480 V three phase
Continuous power	4100 W
Peak stall torque	90.2 N.m at 115...480 V three phase
Nominal output power	1940 W at 115 V single phase 3330 W at 230 V single phase 4050 W at 400 V three phase 3430 W at 480 V three phase
Nominal torque	24.7 N.M at 115 V single phase 21.2 N.M at 230 V single 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 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>	61 A
Shaft end	Smooth shaft
Shaft diameter	24 mm
Shaft length	50 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 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
Electrical connection	Rotatable right angled connector
Torque constant	1.58 N.m/A at 120 °C
Back emf constant	105 V/krpm at 20 °C

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Number of motor poles	5
Rotor inertia	23.44 kg.cm <sup>2</sup>
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
Net weight	23.1 kg

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.000 cm
Package 1 Width	26.000 cm
Package 1 Length	59.500 cm
Package 1 Weight	25.020 kg
Unit Type of Package 2	P12
Number of Units in Package 2	6
Package 2 Height	45.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	162.120 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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