

# servo motor SH3 100 8Nm,nokey,single,brake, 90°conn.IP54/IP65,6k RPM

SH31003P01F2000

EAN Code: 3606485296906

#### Main

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

### Complementary

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Maximum mechanical speed	6000 rpm		
[Us] rated supply voltage	115480 V		
Network number of phases	Three phase		
Continuous stall current	6.6 A		
Continuous stall torque	8 N.m at 115480 V three phase		
Continuous power	2400 W		
Peak stall torque	28.3 N.m at 115480 V three phase		
Nominal output power	790 W at 115 V single phase 1470 W at 230 V single phase 2390 W at 400 V three phase 2560 W at 480 V three phase		
Nominal torque	5.1 N.m at 480 V three phase 7.5 N.m at 115 V single phase 7 N.m at 230 V single phase 5.7 N.m at 400 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	28.3 A		
Shaft end	Smooth shaft		
Shaft diameter	19 mm		
Shaft length	40 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	9 N.m		
Mounting support	International standard flange		
Motor flange size	100 mm		

Electrical connection	Straight connector	
Torque constant	1.22 N.m/A at 120 °C	
Back emf constant	77 V/krpm at 20 °C	
Number of motor poles	4.0	
Rotor inertia	3.838 kg.cm <sup>2</sup>	
Stator resistance	1.43 Ohm	
Stator inductance	4.7 mH	
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm	
Maximum axial force Fa	160 N	
type of cooling	Natural convection	
Length	271.5 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	8 kg	
Sizing reference	SH31003P	
Network number of phases	3	
Temperature copper hot	130 °C	
compatible drive output current 3s peak 2	15 A	
Electrical connection	rotatable right angled connector	

## **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	8.9 kg

## **Logistical informations**

Country of origin DE

## **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5646
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACh Regulation	REACh Declaration
PVC free	Yes

#### Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins