

# Product datasheet

Specifications



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

SH31002P01A2000

EAN Code: 3606485296616

## Main

Range compatibility	PacDrive 3
Device short name	SH3
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	4.8 A
Continuous stall torque	5.8 N.m at 115...480 V three phase
Continuous power	1900 W
Peak stall torque	18.3 N.m at 115...480 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	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	Without
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right angled connector

<b>Torque constant</b>	1.21 N.m/A at 120 °C
<b>Back emf constant</b>	77 V/krpm at 20 °C
<b>Number of motor poles</b>	4.0
<b>Rotor inertia</b>	2.31 kg.cm <sup>2</sup>
<b>Stator resistance</b>	2.4 Ohm
<b>Stator inductance</b>	6.75 mH
<b>Maximum radial force Fr</b>	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm
<b>Maximum axial force Fa</b>	160 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	204.5 mm
<b>Centring collar diameter</b>	95 mm
<b>Centring collar depth</b>	3.5 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	9.0 mm
<b>Circle diameter of the mounting holes</b>	115 mm
<b>Net weight</b>	5.8 kg
<b>Sizing reference</b>	SH31002P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	130 °C
<b>compatible drive output current 3s peak 2</b>	15 A
<b>Electrical connection</b>	rotatable right angled connector

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	21.0 cm
<b>Package 1 Width</b>	18.0 cm
<b>Package 1 Length</b>	35.6 cm
<b>Package 1 Weight</b>	6.717 kg

## Logistical informations

<b>Country of origin</b>	DE
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## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

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

Total lifecycle Carbon footprint 4560

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

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

End of life manual availability No need of specific recycling operations

Take-back No