

Product datasheet

Specifications



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

SH31002P02A2000

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	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 EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder Type	Absolute multiturn 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

Torque Constant	1.21 N.m/A at 120 °C
Back Emf Constant	77 V/krpm at 20 °C
Number Of Motor Poles	4
Rotor Inertia	2.31 kg.cm ²
Stator Resistance	2.4 Ohm
Stator Inductance	19.5 mH
Maximum Radial Force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm
Maximum Axial Force Fa	160 N
Type Of Cooling	Natural convection
Length	204.5 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	5.8 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	19.5 cm
Package 1 Width	39.8 cm
Package 1 Length	22.0 cm
Package 1 Weight	6.855 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	12
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	90.76 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Pvc Free

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile

No need of specific recycling operations