

Product data sheet

Specifications



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

SH31003P01A2000

Product availability: Non-Stock - Not normally stocked in distribution facility

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

Phase Three phase

Continuous stall current 6.6 A

Continuous stall torque 70.8 lbf.in (8 N.m) 115...480 V three phase

Continuous power 2400 W

Peak stall torque 250.5 lbf.in (28.3 N.m) 115...480 V three phase

Nominal output power
790 W 115 V single phase
1470 W 230 V single phase
2390 W 400 V three phase
2560 W 480 V three phase

Nominal torque
45.1 lbf.in (5.1 N.m) 480 V three phase
66.4 lbf.in (7.5 N.m) 115 V single phase
62.0 lbf.in (7 N.m) 230 V single phase
50.4 lbf.in (5.7 N.m) 400 V three phase

Nominal speed
1000 rpm 115 V single phase
2000 rpm 230 V single phase
4000 rpm 400 V three phase
4800 rpm 480 V three phase

Maximum current Irms 28.3 A

Shaft end Smooth shaft

Shaft diameter 0.7 in (19 mm)

Shaft length 1.6 in (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 3.9 in (100 mm)

Electrical Connection Straight connector

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Torque constant	1.22 N.m/A 248 °F (120 °C)
Back emf constant	77 V/krpm 68 °F (20 °C)
Number of motor poles	4.0
Rotor inertia	3.22 kg.cm ²
Stator resistance	1.43 Ohm
Stator inductance	4.7 mH
Maximum radial force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm
Maximum axial force Fa	160 N
type of cooling	Natural convection
Length	9.5 in (240.5 mm)
Centring collar diameter	3.7 in (95 mm)
centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9.0 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	16.5 lb(US) (7.5 kg)
Sizing reference	SH31003P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
compatible drive output current 3s peak 2	15 A
Electrical connection	rotatable right angled connector

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485296869
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.27 in (21.0 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	14.02 in (35.6 cm)
Package weight(Lbs)	18.250 lb(US) (8.278 kg)

Contractual warranty

Warranty	18 months
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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 CO2 eq, Total Life cycle)	5643
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Environmental Disclosure	Product Environmental Profile
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	No
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
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REACH Regulation	REACH Declaration
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California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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PVC free	Yes
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Use Again

Repack and remanufacture

Circularity Profile	No need of specific recycling operations
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Take-back	No
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