

Product data sheet

Specifications



servo motor SH3 100
10Nm,nokey,multi,nobrake,
90°conn.IP54/IP65,6k RPM

SH31004P02A2000

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	6.2 A
Continuous stall torque	88.5 lbf.in (10 N.m) 115...480 V three phase
Continuous power	2500 W
Peak stall torque	358.5 lbf.in (40.5 N.m) 115...480 V three phase
Nominal output power	780 W 115 V single phase 1490 W 230 V single phase 2480 W 400 V three phase 2600 W 480 V three phase
Nominal torque	87.6 lbf.in (9.9 N.m) 115 V single phase 84.08 lbf.in (9.5 N.m) 230 V single phase 69.9 lbf.in (7.9 N.m) 400 V three phase 61.07 lbf.in (6.9 N.m) 480 V three phase
Nominal speed	750 rpm 115 V single phase 1500 rpm 230 V single phase 3000 rpm 400 V three phase 3600 rpm 480 V three phase
Maximum current Irms	32.3 A
Shaft end	Smooth shaft
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 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 multiturn 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Torque constant	1.62 N.m/A 248 °F (120 °C)
Back emf constant	103 V/krpm 68 °F (20 °C)
Number of motor poles	4.0
Rotor inertia	4.22 kg.cm²
Stator resistance	1.81 Ohm
Stator inductance	6.5 mH
Maximum radial force Fr	1070 N 1000 rpm 850 N 2000 rpm 740 N 3000 rpm
Maximum axial force Fa	160 N
type of cooling	Natural convection
Length	10.9 in (276.5 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	20.3 lb(US) (9.2 kg)
Sizing reference	SH31004P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
compatible drive output current 3s peak 2	27 A
Electrical connection	rotatable right angled connector

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485297255
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	10.39 in (26.400 cm)
Package 1 Length	23.23 in (59.000 cm)
Package weight(Lbs)	23.583 lb(US) (10.697 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	31.50 in (80.000 cm)

Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	206.300 lb(US) (93.576 kg)

Contractual warranty

Warranty	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	
Carbon footprint (kg CO2 eq, Total Life cycle)	5862
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
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
PVC free	Yes

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No