

Product data sheet

Specifications



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

SH31003P11F2000

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 I_{rms} 28.3 A

Shaft end Parallel key

Shaft diameter 0.7 in (19 mm)

Shaft length 1.6 in (40 mm)

key width 0.2 in (6 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 79.7 lbf.in (9 N.m)

Mounting Support International standard flange

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

Motor flange size	3.9 in (100 mm)
Electrical Connection	Straight connector
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	3.838 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	10.7 in (271.5 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	17.6 lb(US) (8 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	3606485297071
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package weight(Lbs)	19.73 lb(US) (8.95 kg)

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 CO2 eq, Total Life cycle)	5646
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.