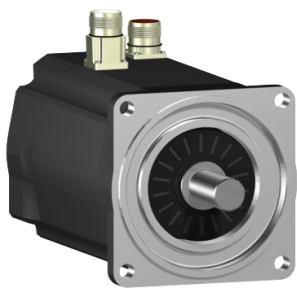


Product data sheet

Specifications



SH3 servomotor, 100mm, 3 stacks, high Torque, keyed Shaft, SinCos Multiturn 128, Brake, straight, IP65/65

SH31003M12F1100

❗ Discontinued

❗ Discontinued on: Jul 23, 2025

❗ End-of-service on: Dec 31, 2025

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	3.4 A
Continuous stall torque	70.8 lbf.in (8 N.m) 115...480 V three phase
Continuous power	1500 W
Peak stall torque	250.5 lbf.in (28.3 N.m) 115...480 V three phase
Nominal output power	410 W 115 V single phase 790 W 230 V single phase 1470 W 400 V three phase 1700 W 480 V three phase
Nominal torque	69.04 lbf.in (7.8 N.m) 115 V single phase 66.4 lbf.in (7.5 N.m) 230 V single phase 62.0 lbf.in (7 N.m) 400 V three phase 59.83 lbf.in (6.76 N.m) 480 V three phase
Nominal speed	500 rpm 115 V single phase 1000 rpm 230 V single phase 2000 rpm 400 V three phase 2400 rpm 480 V three phase
Maximum current Irms	14.7 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	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	With

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

Holding torque	79.7 lbf.in (9 N.m)
Mounting support	International standard flange
Motor flange size	3.9 in (100 mm)
Electrical connection	Rotatable right angled connector
Torque constant	2.35 N.m/A 248 °F (120 °C)
Back emf constant	148 V/krpm 68 °F (20 °C)
Number of motor poles	4
Rotor inertia	3.838 kg.cm²
Stator resistance	5.3 Ohm
Stator inductance	17.4 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	SH31003M
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	straight connector
Output current 3s peak	14.7 A
Inertia	0.618 kg.cm² of brake 3.22 kg.cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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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 >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
Take-back	Nej