

Product datasheet

Specifications



SH3 servomotor, 100mm, 2 stacks, high Torque, smooth Shaft, SinCos Singleturn 128, no Brake, straight, IP54/65

SH31002M01A1000

! Discontinued

! Discontinued on: Aug 20, 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	2.5 A
Continuous stall torque	5.8 N.m at 115...480 V three phase
Continuous power	1100 W
Peak stall torque	18.3 N.m at 115...480 V three phase
Nominal output power	300 W at 115 V single phase 580 W at 230 V single phase 1090 W at 400 V three phase 1280 W at 480 V three phase
Nominal torque	5.62 N.m at 115 V single phase 5.5 N.m at 230 V single phase 5.28 N.m at 400 V three phase 5.28 N.m at 480 V three phase
Nominal speed	500 rpm at 115 V single phase 1000 rpm at 230 V single phase 2000 rpm at 400 V three phase 2400 rpm at 480 V three phase
Maximum current Irms	9.0 A
Shaft end	Smooth shaft
Shaft diameter	19 mm
Shaft length	40 mm
Key width	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	Without

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

Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Straight connector
Torque constant	2.32 N.m/A at 120 °C
Back emf constant	146 V/krpm at 20 °C
Number of motor poles	4
Rotor inertia	2.31 kg.cm²
Stator resistance	8.6 Ohm
Stator inductance	24.3 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
Product weight	5.8 kg
Sizing reference	SH31002M
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	straight connector
Output current 3s peak	9.0 A
Inertia	0.0 kg.cm² of brake 2.31 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	No