

Product datasheet

Specifications



SH3 servomotor, 140mm, 1 stack, high Torque, smooth Shaft, SinCos Singleturn 128, no Brake, angular, IP65/65

SH31401M01A2100

! 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	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	4 A
Continuous stall torque	11.1 N.m at 115...480 V three phase
Continuous power	1700 W
Peak stall torque	27 N.m at 115...480 V three phase
Nominal output power	430 W at 115 V single phase 860 W at 230 V single phase 1670 W at 400 V three phase 1960 W at 480 V three phase
Nominal torque	11 N.m at 115 V single phase 10.95 N.m at 230 V single phase 10.6 N.m at 400 V three phase 10.4 N.m at 480 V three phase
Nominal speed	375 rpm at 115 V single phase 750 rpm at 230 V single phase 1500 rpm at 400 V three phase 1800 rpm at 480 V three phase
Maximum current Irms	10.8 A
Shaft end	Smooth shaft
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 mm
IP degree of protection	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	140 mm
Electrical connection	Straight connector
Torque constant	2.78 N.m/A at 120 °C
Back emf constant	193 V/krpm at 20 °C
Number of motor poles	5
Rotor inertia	7.41 kg.cm ²
Stator resistance	5.3 Ohm
Stator inductance	88.55 mH
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	217.5 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	11.9 kg
Sizing reference	SH31401M
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	rotatable right angled connector

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**