

Product data sheet

Specifications



SH3 servomotor, 140mm, 1 stack, high Torque, smooth Shaft, SinCos Multiturn 128, no Brake, angular, IP54/65

SH31401M02A2000

! 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 | 4000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 4 A |
| Continuous stall torque | 98.2 lbf.in (11.1 N.m) 115...480 V three phase |
| Continuous power | 1700 W |
| Peak stall torque | 239.0 lbf.in (27 N.m) 115...480 V three phase |
| Nominal output power | 430 W 115 V single phase 860 W 230 V single phase 1670 W 400 V three phase 1960 W 480 V three phase |
| Nominal torque | 97.4 lbf.in (11 N.m) 115 V single phase 96.92 lbf.in (10.95 N.m) 230 V single phase 93.8 lbf.in (10.6 N.m) 400 V three phase 92.05 lbf.in (10.4 N.m) 480 V three phase |
| Nominal speed | 375 rpm 115 V single phase 750 rpm 230 V single phase 1500 rpm 400 V three phase 1800 rpm 480 V three phase |
| Maximum current Irms | 10.8 A |
| Shaft end | Smooth shaft |
| Shaft diameter | 0.9 in (24 mm) |
| Shaft length | 2.0 in (50 mm) |
| Key width | 0.3 in (8 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 | 5.5 in (140 mm) |
| Electrical connection | Straight connector |
| Torque constant | 2.78 N.m/A 248 °F (120 °C) |
| Back emf constant | 193 V/krpm 68 °F (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 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm |
| Maximum axial force Fa | 300 N |
| Type of cooling | Natural convection |
| Length | 8.6 in (217.5 mm) |
| Centring collar diameter | 5.1 in (130 mm) |
| Centring collar depth | 0.1 in (3.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.4 in (11 mm) |
| Circle diameter of the mounting holes | 6.5 in (165 mm) |
| Net weight | 26.2 lb(US) (11.9 kg) |
| Sizing reference | SH31401M |
| Network number of phases | 3 |
| Temperature copper hot | 266 °F (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 |
|-----------------------------|----|



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**