

Product data sheet

Specifications



SH3 servomotor, 140mm, 2 stacks, smooth Shaft, SinCos Singleturn 128, Brake, angular, IP65/67

SH31402P01F2200

⚠ Discontinued on: Jul 23, 2025

⚠ End-of-service on: Dec 31, 2025

⚠ Discontinued

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 | 13.2 A |
| Continuous stall torque | 172.6 lbf.in (19.5 N.m) 115...480 V three phase |
| Continuous power | 3900 W |
| Peak stall torque | 531.9 lbf.in (60.1 N.m) 115...480 V three phase |
| Nominal output power | 1460 W 115 V single phase 2690 W 230 V single phase 3860 W 400 V three phase 3660 W 480 V three phase |
| Nominal torque | 164.6 lbf.in (18.6 N.m) 115 V single phase 151.3 lbf.in (17.1 N.m) 230 V single phase 108.9 lbf.in (12.3 N.m) 400 V three phase 85.9 lbf.in (9.7 N.m) 480 V three phase |
| Nominal speed | 750 rpm 115 V single phase 1500 rpm 230 V single phase 3000 rpm 400 V three phase 3600 rpm 480 V three phase |
| Maximum current Irms | 44.1 A |
| Shaft end | Smooth shaft |
| Shaft diameter | 0.9 in (24 mm) |
| Shaft length | 2.0 in (50 mm) |
| IP degree of protection | IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5 IP67 housing: conforming to IEC 60034-5 |
| Encoder type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | With |
| Holding torque | 203.6 lbf.in (23 N.m) |

| | |
|--|---|
| Mounting support | International standard flange |
| Motor flange size | 5.5 in (140 mm) |
| Electrical connection | Rotatable right angled connector |
| Torque constant | 1.47 N.m/A 248 °F (120 °C) |
| Back emf constant | 101 V/krpm 68 °F (20 °C) |
| Number of motor poles | 5 |
| Rotor inertia | 14.48 kg.cm ² |
| Stator resistance | 0.6 Ohm |
| Stator inductance | 11.225 mH |
| Maximum radial force Fr | 2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm |
| Maximum axial force Fa | 300 N |
| Type of cooling | Natural convection |
| Length | 12.2 in (310.5 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 | 39.02 lb(US) (17.7 kg) |
| Sizing reference | SH31402P |
| 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 |
| Package 1 Height | 7.953 in (20.200 cm) |
| Package 1 Width | 23.307 in (59.200 cm) |
| Package 1 Length | 10.315 in (26.200 cm) |
| Package 1 Weight | 41.18 lb(US) (18.68 kg) |

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

EU RoHS Directive

[Compliant By Exemption](#)

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

No need of specific recycling operations