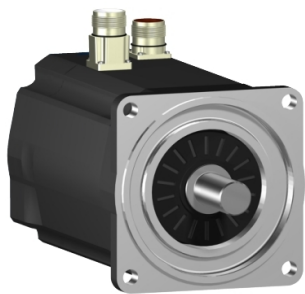


Product data sheet

Specifications



SH3 servomotor, 140mm, 1 stack, keyed Shaft, SinCos Multiturn 128, no Brake, straight, IP65/65

SH31401P12A1100

⚠ 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	7.8 A
Continuous stall torque	98.2 lbf.in (11.1 N.m) 115...480 V three phase
Continuous power	2900 W
Peak stall torque	239.0 lbf.in (27 N.m) 115...480 V three phase
Nominal output power	860 W 115 V single phase 1670 W 230 V single phase 2890 W 400 V three phase 3170 W 480 V three phase
Nominal torque	96.92 lbf.in (10.95 N.m) 115 V single phase 93.8 lbf.in (10.6 N.m) 230 V single phase 81.4 lbf.in (9.2 N.m) 400 V three phase 74.3 lbf.in (8.4 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	20.8 A
Shaft end	Parallel key
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	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

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

Motor flange size	5.5 in (140 mm)
Electrical connection	Straight connector
Torque constant	1.43 N.m/A 248 °F (120 °C)
Back emf constant	100 V/krpm 68 °F (20 °C)
Number of motor poles	5
Rotor inertia	7.41 kg.cm²
Stator resistance	1.41 Ohm
Stator inductance	23.72 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	SH31401P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	straight 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	27.51 lb(US) (12.48 kg)

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	
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