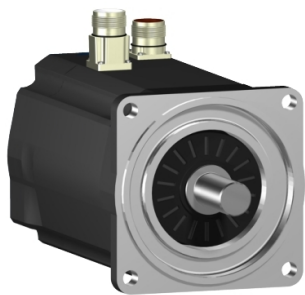


Product data sheet

Specifications



SH3 servomotor, 140mm, 3 stacks, smooth Shaft, SinCos Singleturn 128, no Brake, straight, IP65/67

SH31403P01A1200

⚠ Discontinued on: Oct 11, 2021

⚠ 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
Phase	Three phase
Continuous stall current	17.6 A
Continuous stall torque	246.05 lbf.in (27.8 N.m) 115...480 V three phase
Continuous power	4100 W
Peak stall torque	798.3 lbf.in (90.2 N.m) 115...480 V three phase
Nominal output power	1940 W 115 V single phase 3330 W 230 V single phase 4050 W 400 V three phase 3430 W 480 V three phase
Nominal torque	218.6 lbf.in (24.7 N.m) 115 V single phase 187.6 lbf.in (21.2 N.m) 230 V single phase 114.2 lbf.in (12.9 N.m) 400 V three phase 80.5 lbf.in (9.1 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	61 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	Without
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Electrical Connection	Straight connector
Torque constant	1.58 N.m/A 248 °F (120 °C)
Back emf constant	105 V/krpm 68 °F (20 °C)
Number of motor poles	5
Rotor inertia	17.94 kg.cm²
Stator resistance	0.4 Ohm
Stator inductance	7.72 mH
Maximum radial force Fr	2420 N 1000 rpm 1920 N 2000 rpm 1670 N 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	12.9 in (327.5 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)
Product Weight	47.0 lb(US) (21.3 kg)
Sizing reference	SH31403P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	straight connector

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	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 weight(Lbs)	49.56 lb(US) (22.48 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 Longer

Lifetime extension	
Repair	No