

Product data sheet

Specifications



SH3 servomotor, 205mm, 1 stack, smooth Shaft, SinCos Singleturn 128, no Brake, straight, IP54/65

SH32051P01A1000

⚠ 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	3800 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	21 A
Continuous stall torque	326.6 lbf.in (36.9 N.m) 115...480 V three phase
Continuous power	5500 W
Peak stall torque	973.6 lbf.in (110 N.m) 115...480 V three phase
Nominal output power	2510 W 115 V single phase 4240 W 230 V single phase 5500 W 400 V three phase 5200 W 480 V three phase
Nominal torque	282.3 lbf.in (31.9 N.m) 115 V single phase 239.0 lbf.in (27 N.m) 230 V single phase 154.9 lbf.in (17.5 N.m) 400 V three phase 122.1 lbf.in (13.8 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	87.2 A
Shaft end	Smooth shaft
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 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 single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange

Motor flange size	8.07 in (205 mm)
Electrical connection	Straight connector
Torque constant	1.6 N.m/A 248 °F (120 °C)
Back emf constant	104 V/krpm 68 °F (20 °C)
Number of motor poles	5
Rotor inertia	71.4 kg.cm ²
Stator resistance	0.3 Ohm
Stator inductance	8.7 mH
Maximum radial force Fr	3730 N 1000 rpm 2960 N 2000 rpm 2580 N 3000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	12.6 in (321 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.6 in (14 mm)
Circle diameter of the mounting holes	8.5 in (215 mm)
Net weight	77.2 lb(US) (35 kg)
Sizing reference	SH32051P
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	0.4 in (1 cm)
Package 1 Width	0.4 in (1 cm)
Package 1 Length	0.4 in (1 cm)
Package 1 Weight	2.2 lb(US) (1 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

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

No need of specific recycling operations