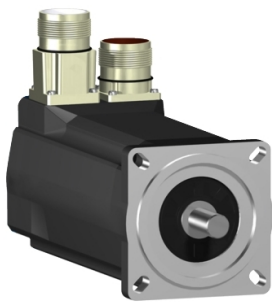


Product data sheet

Specifications



SH3 servomotor, 70mm, 2 stacks,
smooth Shaft, SinCos Singleturn
128, no Brake, straight, IP65/67

SH30702P01A1200

⚠ 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	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	2.9 A
Continuous stall torque	18.06 lbf.in (2.04 N.m) 115...480 V three phase
Continuous power	1130 W
Peak stall torque	67.3 lbf.in (7.6 N.m) 115...480 V three phase
Nominal output power	340 W 115 V single phase 660 W 230 V single phase 1190 W 400 V three phase 1360 W 480 V three phase
Nominal torque	19.03 lbf.in (2.15 N.m) 115 V single phase 18.6 lbf.in (2.1 N.m) 230 V single phase 15.9 lbf.in (1.8 N.m) 400 V three phase 15.9 lbf.in (1.8 N.m) 480 V three phase
Nominal speed	1500 rpm 115 V single phase 3000 rpm 230 V single phase 6000 rpm 400 V three phase 7200 rpm 480 V three phase
Maximum current Irms	11.8 A
Shaft end	Smooth shaft
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 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

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	2.8 in (70 mm)
Electrical connection	Rotatable right angled connector
Torque constant	0.7 N.m/A 248 °F (120 °C)
Back emf constant	48 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.41 kg.cm²
Stator resistance	4.2 Ohm
Stator inductance	29.65 mH
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	7.4 in (187 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net weight	6.2 lb(US) (2.8 kg)
Sizing reference	SH30702P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	straight connector
Output current 3s peak	11.8 A
Inertia	0.0 kg.cm² of brake 0.0 kg.cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.400 in (11.176 cm)
Package 1 Width	7.400 in (18.796 cm)
Package 1 Length	15.500 in (39.370 cm)
Package 1 Weight	7.36 lb(US) (3.34 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