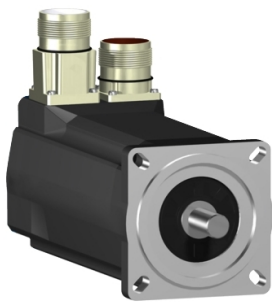


Product datasheet

Specifications



SH3 servomotor, 70mm, 2 stacks, high Torque, keyed Shaft, SinCos Multiturn 128, no Brake, straight, IP54/65

SH30702M12A1000

! Discontinued

! Discontinued on: Aug 20, 2025

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	1.5 A
Continuous stall torque	2.04 N.m at 115...480 V three phase
Continuous power	640 W
Peak stall torque	7.6 N.m at 115...480 V three phase
Nominal output power	700 W at 115 V single phase 340 W at 230 V single phase 660 W at 400 V three phase 780 W at 480 V three phase
Nominal torque	2.2 N.m at 115 V single phase 2.15 N.m at 230 V single phase 2.03 N.m at 400 V three phase 2.03 N.m at 480 V three phase
Nominal speed	750 rpm at 115 V single phase 1500 rpm at 230 V single phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase
Maximum current Irms	6.0 A
Shaft end	Parallel key
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 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 multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without

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

Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Rotatable right angled connector
Torque constant	1.36 N.m/A at 120 °C
Back emf constant	95.9 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.41 kg.cm²
Stator resistance	16.4 Ohm
Stator inductance	41.55 mH
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	187 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Product weight	2.8 kg
Sizing reference	SH30702M
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	straight connector
Output current 3s peak	6.0 A
Inertia	0.0 kg.cm² of brake 0.41 kg.cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

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	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
Take-back	No