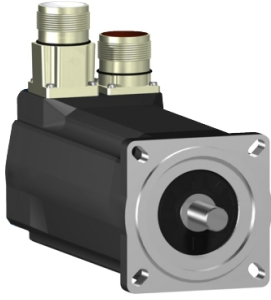


# Product datasheet

Specifications



SH3 servomotor, 70mm, 1 stack,  
smooth Shaft, SinCos Singleturn  
128, no Brake, straight, IP54/65

SH30701P01A1000

## 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	1.8 A
Continuous stall torque	1.25 N.m at 115...480 V three phase
Continuous power	690 W
Peak stall torque	3.5 N.m at 115...480 V three phase
Nominal output power	220 W at 115 V single phase 440 W at 230 V single phase 820 W at 400 V three phase 950 W at 480 V three phase
Nominal torque	1.4 N.m at 115 V single phase 1.4 N.m at 230 V single phase 1.1 N.m at 400 V three phase 1.1 N.m at 480 V three phase
Nominal speed	1500 rpm at 115 V single phase 3000 rpm at 230 V single phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase
Maximum current Irms	5.7 A
Shaft end	Smooth shaft
Shaft diameter	11 mm
Shaft length	23 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	70 mm
Electrical connection	Rotatable right angled connector

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

<b>Torque constant</b>	0.69 N.m/A at 120 °C
<b>Back emf constant</b>	46 V/krpm at 20 °C
<b>Number of motor poles</b>	3.0
<b>Rotor inertia</b>	0.25 kg.cm <sup>2</sup>
<b>Stator resistance</b>	10.4 Ohm
<b>Stator inductance</b>	21.3 mH
<b>Maximum radial force Fr</b>	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm
<b>Maximum axial force Fa</b>	80 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	154 mm
<b>Centring collar diameter</b>	60 mm
<b>Centring collar depth</b>	2.5 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	5.5 mm
<b>Circle diameter of the mounting holes</b>	82 mm
<b>Net weight</b>	2.1 kg
<b>Sizing reference</b>	SH30701P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	130 °C
<b>Electrical connection</b>	straight connector
<b>Output current 3s peak</b>	5.7 A
<b>Inertia</b>	0.0 kg.cm <sup>2</sup> of brake 0.25 kg.cm <sup>2</sup> of motor

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	11.5 cm
<b>Package 1 Width</b>	19.0 cm
<b>Package 1 Length</b>	39.5 cm
<b>Package 1 Weight</b>	2.7 kg

## Contractual warranty

<b>Warranty (in months)</b>	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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	1 947 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	12 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 934 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
PVC free	Yes

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

End of life manual availability	No need of specific recycling operations
Take-back	Yes