

Product data sheet

Specifications



servo motor SH3 070, 2,94Nm, no key, single, brake, 90°conn, IP54, IP65, 8k RPM

SH30703P01F2000

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	4.1 A
Continuous stall torque	2.94 N.m at 115...480 V three phase
Continuous power	1330 W
Peak stall torque	11.3 N.m at 115...480 V three phase
Nominal output power	460 W at 115 V single phase 880 W at 230 V single phase 1450 W at 400 V three phase 1550 W at 480 V three phase
Nominal torque	2.95 N.m at 115 V single phase 2.8 N.m at 230 V single phase 2.1 N.m at 400 V three phase 2.1 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	17.0 A
Shaft end	Smooth shaft
Shaft diameter	14 mm
Shaft length	30 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	With
Holding torque	3 N.m
Mounting support	International standard flange
Motor flange size	70 mm

Electrical connection	Straight connector
Torque constant	0.72 N.m/A at 120 °C
Back emf constant	49 V/krpm at 20 °C
Number of motor poles	3.0
Rotor inertia	0.807 kg.cm ²
Stator resistance	2.7 Ohm
Stator inductance	20.3 mH
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	254 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	3.8 kg
Sizing reference	SH30703P
Network number of phases	3
Temperature copper hot	130 °C
compatible drive output current 3s peak 2	6 A
Electrical connection	rotatable right angled connector

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	19.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	4.457 kg
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	14.008 kg
Unit Type of Package 3	P06
Number of Units in Package 3	12

Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	64.032 kg

Contractual warranty

Warranty	18 months
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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 3428

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number Ead0850d-370a-47c5-8cf7-1d93c2c974a4

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

PVC free Yes

Use Again

Repack and remanufacture

End of life manual availability No need of specific recycling operations

Take-back No