Product data sheet

Specifications



SH3 servomotor, 70mm, 3 stacks, smooth Shaft, SinCos Singleturn 128, Brake, angular, IP54/65

SH30703P01F2000

Product availability: Non-Stock - Not normally stocked in distribution facility

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
Phase	Three phase
Continuous stall current	4.1 A
Continuous stall torque	26.02 lbf.in (2.94 N.m) 115...480 V three phase
Continuous power	1330 W
Peak stall torque	100.01 lbf.in (11.3 N.m) 115...480 V three phase
Nominal output power	460 W 115 V single phase 880 W 230 V single phase 1450 W 400 V three phase 1550 W 480 V three phase
Nominal torque	26.11 lbf.in (2.95 N.m) 115 V single phase 24.8 lbf.in (2.8 N.m) 230 V single phase 18.6 lbf.in (2.1 N.m) 400 V three phase 18.6 lbf.in (2.1 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	17.0 A
Shaft end	Smooth shaft
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (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	26.6 lbf.in (3 N.m)
Mounting Support	International standard flange
Motor flange size	2.8 in (70 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Electrical Connection	Straight connector
Torque constant	0.72 N.m/A 248 °F (120 °C)
Back emf constant	49 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.807 kg.cm²
Stator resistance	2.7 Ohm
Stator inductance	20.3 mH
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	10 in (254 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)
Product Weight	8.4 lb(US) (3.8 kg)
Sizing reference	SH30703P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	17.0 A
Inertia	0.11 kg.cm² of brake 0.0 kg.cm² of motor

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485296166
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.331 in (11.000 cm)
Package 1 Width	7.480 in (19.000 cm)
Package 1 Length	15.551 in (39.500 cm)
Package weight(Lbs)	9.826 lb(US) (4.457 kg)

Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	11.8 in (30 cm)
Package 2 Width	15.7 in (40 cm)
Package 2 Length	23.6 in (60 cm)
Package 2 Weight	30.882 lb(US) (14.008 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	12
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	23.622 in (60.000 cm)
Package 3 Weight	141.167 lb(US) (64.032 kg)

Contractual warranty

Warranty (in months)	18

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	**3 428 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**20 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.6 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**3 407 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.4 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	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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 Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**
Take-back	**No**