

Product data sheet

Specifications



SH3 servomotor, 40mm, 1 stack, smooth Shaft, SinCos Singleturn 16, Brake, angular, IP65/65

SH30401P06F2100

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	9000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	1.12 A
Continuous stall torque	1.86 lbf.in (0.21 N.m) 115...480 V three phase
Continuous power	170 W
Peak stall torque	6.64 lbf.in (0.75 N.m) 480 V three phase
Nominal output power	77 W 115 V single phase 77 W 230 V single phase 166 W 400 V three phase 166 W 480 V three phase
Nominal torque	1.558 lbf.in (0.176 N.m) 115 V single phase 1.558 lbf.in (0.176 N.m) 230 V single phase 1.629 lbf.in (0.184 N.m) 400 V three phase 1.629 lbf.in (0.184 N.m) 480 V three phase
Nominal speed	4000 rpm 115 V single phase 4000 rpm 230 V single phase 9000 rpm 400 V three phase 9000 rpm 480 V three phase
Maximum current Irms	4.5 A
Shaft end	Smooth shaft
Shaft diameter	0.3 in (8 mm)
Shaft length	1.0 in (25 mm)
IP degree of protection	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	16 periods
Holding brake	With
Holding torque	3.5 lbf.in (0.4 N.m)
Mounting Support	International standard flange
Motor flange size	1.6 in (40 mm)

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

Electrical Connection	Straight connector
Torque constant	0.19 N.m/A 248 °F (120 °C)
Back emf constant	13.6 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	0.04 kg.cm ²
Stator resistance	17.2 Ohm
Stator inductance	7.3 mH
Type of cooling	Natural convection
Length	3.9 in (99.4 mm)
Centring collar diameter	1.2 in (30 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (4.5 mm)
Circle diameter of the mounting holes	1.8 in (46 mm)
Net Weight	1.3 lb(US) (0.6 kg)
Sizing reference	SH30402P
Network number of phases	3
Temperature copper hot	248 °F (120 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	4.5 A
Inertia	0.017 kg.cm ² of brake 0.023 kg.cm ² of motor

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485467467
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.291 in (10.900 cm)
Package 1 Width	9.803 in (24.900 cm)
Package 1 Length	6.654 in (16.900 cm)
Package weight(Lbs)	29.841 oz (846.000 g)

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 >](#)

Environmental footprint

Total lifecycle Carbon footprint	408 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	405 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

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 Longer

Lifetime extension

Repair	No
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Use Again

Repack and remanufacture

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