

Product data sheet

Specifications



SH3 servomotor, 55mm, 1 stack,
keyed Shaft, SinCos Multiturn 128,
Brake, angular, IP65/65

SH30551P12F2100

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	0.73 A
Continuous stall torque	3.72 lbf.in (0.42 N.m) 115...480 V three phase
Continuous power	290 W
Peak stall torque	13.3 lbf.in (1.5 N.m) 115...480 V three phase
Nominal output power	100 W 115 V single phase 210 W 230 V single phase 400 W 400 V three phase 440 W 480 V three phase
Nominal torque	4.4 lbf.in (0.5 N.m) 115 V single phase 4.4 lbf.in (0.5 N.m) 230 V single phase 3.10 lbf.in (0.35 N.m) 400 V three phase 3.10 lbf.in (0.35 N.m) 480 V three phase
Nominal speed	2000 rpm 115 V single phase 4000 rpm 230 V single phase 6000 rpm 400 V three phase 6000 rpm 480 V three phase
Maximum current Irms	2.9 A
Shaft end	Parallel key
Shaft diameter	0.4 in (9 mm)
Shaft length	0.8 in (20 mm)
Key width	0.1 in (3 mm)
IP degree of protection	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	With
Holding torque	7.08 lbf.in (0.8 N.m)
Mounting Support	International standard flange

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

Motor flange size	2.2 in (55 mm)
Electrical Connection	Rotatable right angled connector
Torque constant	0.58 N.m/A 248 °F (120 °C)
Back emf constant	40 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.08 kg.cm²
Stator resistance	41.8 Ohm
Stator inductance	37.13 mH
Maximum radial force Fr	340 N 1000 rpm 270 N 2000 rpm 240 N 3000 rpm 220 N 4000 rpm 200 N 5000 rpm 190 N 6000 rpm 180 N 7000 rpm 170 N 8000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	6.3 in (159 mm)
Centring collar diameter	1.6 in (40 mm)
Centring collar depth	0.08 in (2 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	2.5 in (63 mm)
Product Weight	2.9 lb(US) (1.3 kg)
Sizing reference	SH30551P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	2.9 A
Inertia	0.021 kg.cm² of brake 0.059 kg.cm² of motor

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606481971104
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	15.6 in (39.5 cm)
Package 1 Width	7.5 in (19 cm)

Package 1 Length	4.5 in (11.5 cm)
Package weight(Lbs)	2.641 lb(US) (1.198 kg)

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	958 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	952 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
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
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Use Again



Repack and remanufacture

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