Product data sheet

Specifications

servo motor SH3 055 1,05Nm,key,multi,brake, 90Â°conn.IP54/IP65,9k RPM

SH30553P12F2000

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	1.7 A
Continuous stall torque	9.29 lbf.in (1.05 N.m) 115...480 V three phase
Continuous power	680 W
Peak stall torque	31.0 lbf.in (3.5 N.m) 115...480 V three phase
Nominal output power	240 W 115 V single phase 460 W 230 V single phase 880 W 400 V three phase 970 W 480 V three phase
Nominal torque	10.001 lbf.in (1.13 N.m) 115 V single phase 9.7 lbf.in (1.1 N.m) 230 V single phase 7.17 lbf.in (0.81 N.m) 400 V three phase 7.17 lbf.in (0.81 N.m) 480 V three phase
Nominal speed	2000 rpm 115 V single phase 4000 rpm 230 V single phase 8000 rpm 400 V three phase 8000 rpm 480 V three phase
Maximum current Irms	6.5 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	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 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.

Motor flange size	2.2 in (55 mm)
Electrical Connection	Straight connector
Torque constant	0.62 N.m/A 248 °F (120 °C)
Back emf constant	41 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.155 kg.cm²
Stator resistance	10.4 Ohm
Stator inductance	13.02 mH
Maximum radial force Fr	190 N 8000 rpm 390 N 1000 rpm 310 N 2000 rpm 270 N 3000 rpm 240 N 4000 rpm 230 N 5000 rpm 210 N 6000 rpm 200 N 7000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	8.0 in (203 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)
Net Weight	4.2 lb(US) (1.9 kg)
Sizing reference	SH30553P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
compatible drive output current 3s peak 2	6 A
Electrical connection	rotatable right angled connector

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485295626
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.5 in (11.5 cm)
Package 1 Width	7.5 in (19.0 cm)
Package 1 Length	15.6 in (39.5 cm)

Package weight(Lbs)	5.3 lb(US) (2.4 kg)

Contractual warranty

Warranty	18 months

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

Carbon footprint (kg CO2 eq, Total Life cycle)	**2086**
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

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