

# Product data sheet

Specifications



## SH3 servomotor, 55mm, 2 stacks, keyed Shaft, SinCos Singleturn 128, Brake, angular, IP54/65

SH30552P11F2000

### 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	1.2 A
Continuous stall torque	6.28 lbf.in (0.71 N.m) 115...480 V three phase
Continuous power	530 W
Peak stall torque	22.1 lbf.in (2.5 N.m) 115...480 V three phase
Nominal output power	160 W 115 V single phase 310 W 230 V single phase 600 W 400 V three phase 670 W 480 V three phase
Nominal torque	6.82 lbf.in (0.77 N.m) 115 V single phase 6.64 lbf.in (0.75 N.m) 230 V single phase 5.58 lbf.in (0.63 N.m) 400 V three phase 5.58 lbf.in (0.63 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	4.8 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 single turn 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	Rotatable right angled connector
Torque constant	0.59 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	0.117 kg.cm <sup>2</sup>
Stator resistance	17.4 Ohm
Stator inductance	18.2 mH
Maximum radial force Fr	370 N 1000 rpm 290 N 2000 rpm 260 N 3000 rpm 230 N 4000 rpm 220 N 5000 rpm 200 N 6000 rpm 190 N 7000 rpm 190 N 8000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	7.1 in (181 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	3.5 lb(US) (1.6 kg)
Sizing reference	SH30552P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	4.8 A
Inertia	0.021 kg.cm <sup>2</sup> of brake 0.096 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

GTIN	3606481550484
------	---------------

## 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)	3.62 lb(US) (1.64 kg)

## Contractual warranty





## 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	1 428 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7 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]	1 420 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACH Regulation	<a href="#">REACH Declaration</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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