

# Product data sheet

Specifications



SH3 servomotor, 55mm, 1 stack,  
smooth Shaft, SinCos Multiturn 128,  
no Brake, angular, IP65/67

SH30551P02A2200

## 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	Smooth shaft
Shaft diameter	0.4 in (9 mm)
Shaft length	0.8 in (20 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5 IP67 housing: conforming to IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting Support	International standard flange
Motor flange size	2.2 in (55 mm)
Electrical Connection	Rotatable right angled connector

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

<b>Torque constant</b>	0.58 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	40 V/krpm 68 °F (20 °C)
<b>Number of motor poles</b>	3.0
<b>Rotor inertia</b>	0.059 kg.cm <sup>2</sup>
<b>Stator resistance</b>	41.8 Ohm
<b>Stator inductance</b>	37.13 mH
<b>Maximum radial force Fr</b>	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
<b>Maximum axial force Fa</b>	40 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	5.2 in (132.5 mm)
<b>Centring collar diameter</b>	1.6 in (40 mm)
<b>Centring collar depth</b>	0.08 in (2 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.2 in (5.5 mm)
<b>Circle diameter of the mounting holes</b>	2.5 in (63 mm)
<b>Net Weight</b>	2.6 lb(US) (1.2 kg)
<b>Sizing reference</b>	SH30551P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	266 °F (130 °C)
<b>Electrical connection</b>	rotatable right angled connector
<b>Output current 3s peak</b>	2.9 A
<b>Inertia</b>	0.0 kg.cm <sup>2</sup> of brake 0.059 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

<b>GTIN</b>	3606481550453
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	4.5 in (11.5 cm)
<b>Package 1 Width</b>	7.5 in (19 cm)
<b>Package 1 Length</b>	15.6 in (39.5 cm)
<b>Package weight(Lbs)</b>	3.629 lb(US) (1.646 kg)

## Contractual warranty

<b>Warranty (in months)</b>	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	960 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]	952 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
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## Use Again



### Repack and remanufacture

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