

# Product data sheet

Specifications



## SH3 OMC motor 100mm 1 st. IP65/54 smooth sh. DSL single turn str. conn.M23

SH31001P0AA3000

⚠ Discontinued on: Oct 9, 2023

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**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	6000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	3.5 A
Continuous stall torque	26.02 lbf.in (2.94 N.m) 115...480 V three phase
Continuous power	1190 W
Peak stall torque	85.0 lbf.in (9.6 N.m) 115...480 V three phase
Nominal output power	690 W 230 V single phase 1190 W 400 V three phase 1190 W 480 V three phase
Nominal torque	23.37 lbf.in (2.64 N.m) 230 V single phase 20.09 lbf.in (2.27 N.m) 400 V three phase 20.09 lbf.in (2.27 N.m) 480 V three phase
Nominal speed	2500 rpm 230 V single phase 5000 rpm 400 V three phase 6000 rpm 480 V three phase
Maximum current Irms	12 A
Shaft end	Smooth shaft
Shaft diameter	0.7 in (19 mm)
Shaft length	1.6 in (40 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5
Encoder type	Absolute single turn Hiperface DSL
Speed feedback resolution	262144 points/turn
Holding brake	Without
Mounting Support	International standard flange
Motor flange size	3.9 in (100 mm)
Electrical Connection	Straight 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>	0.84 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	60 V/krpm 68 °F (20 °C)
<b>Number of motor poles</b>	4
<b>Rotor inertia</b>	1.40 kg.cm <sup>2</sup>
<b>Stator resistance</b>	3.8 Ohm
<b>Stator inductance</b>	19 mH
<b>Maximum radial force Fr</b>	1930 N 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm
<b>Maximum axial force Fa</b>	300 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	6.6 in (168.5 mm)
<b>Centring collar diameter</b>	3.7 in (95 mm)
<b>Centring collar depth</b>	0.1 in (3.5 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.4 in (9.0 mm)
<b>Circle diameter of the mounting holes</b>	4.5 in (115 mm)
<b>Net Weight</b>	9.5 lb(US) (4.3 kg)
<b>Sizing reference</b>	SH31001P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	266 °F (130 °C)
<b>Electrical connection</b>	quicklock straight connector

## Ordering and shipping details

<b>Category</b>	US1PC5218359
<b>Discount Schedule</b>	PC52
<b>GTIN</b>	3606481803672
<b>Returnability</b>	No

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	8.3 in (21.0 cm)
<b>Package 1 Width</b>	7.09 in (18.0 cm)
<b>Package 1 Length</b>	14.02 in (35.6 cm)
<b>Package weight(Lbs)</b>	10.8 lb(US) (4.9 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 >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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](http://www.P65Warnings.ca.gov)

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

Circularity Profile

No need of specific recycling operations

