

Product data sheet

Specifications



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

SH31001P0BA3000

⚠ Discontinued on: Oct 9, 2023

⚠ Discontinued

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 multiturn Hiperface DSL |
| Speed feedback resolution | 262144 points/turn x 4096 turns |
| Holding brake | Without |
| Mounting Support | International standard flange |
| Motor flange size | 3.9 in (100 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.

| | |
|--|---|
| Torque constant | 0.84 N.m/A 248 °F (120 °C) |
| Back emf constant | 60 V/krpm 68 °F (20 °C) |
| Number of motor poles | 4 |
| Rotor inertia | 1.40 kg.cm ² |
| Stator resistance | 3.8 Ohm |
| Stator inductance | 19 mH |
| Maximum radial force Fr | 1340 N 3000 rpm 1930 N 1000 rpm 1530 N 2000 rpm |
| Maximum axial force Fa | 300 N |
| Type of cooling | Natural convection |
| Length | 6.6 in (168.5 mm) |
| Centring collar diameter | 3.7 in (95 mm) |
| Centring collar depth | 0.1 in (3.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.4 in (9.0 mm) |
| Circle diameter of the mounting holes | 4.5 in (115 mm) |
| Net Weight | 9.5 lb(US) (4.3 kg) |
| Sizing reference | SH31001P |
| Network number of phases | 3 |
| Temperature copper hot | 266 °F (130 °C) |
| Electrical connection | quicklock straight connector |

Ordering and shipping details

| | |
|--------------------------|---------------|
| Category | US1PC5218359 |
| Discount Schedule | PC52 |
| GTIN | 3606481803757 |
| Returnability | No |

Packing Units

| | |
|-------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 8.3 in (21.0 cm) |
| Package 1 Width | 7.09 in (18.0 cm) |
| Package 1 Length | 14.02 in (35.6 cm) |
| Package weight(Lbs) | 10.8 lb(US) (4.9 kg) |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



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

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

No need of specific recycling operations

