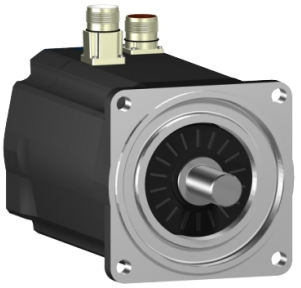
# Product data sheet

Specifications



## servo motor SH3 100 2,94Nm,nokey,multi,nobrake,str.conn,IP54/IP65,6k RPM

SH31001P02A1000

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price*: 1,539.28 USD**

## Main

| | |
|---|---|
| **Range Compatibility** | PacDrive 3 |
| **Product Or Component Type** | Servo motor |
| **Device Short Name** | SH3.....P |

## 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** | 84.97 lbf.in (9.6 N.m) 115...480 V three phase |
| **Nominal Output Power** | 410 W 115 V single phase<br>790 W 230 V single phase<br>1410 W 400 V three phase<br>1630 W 480 V three phase |
| **Nominal Torque** | 25.76 lbf.in (2.91 N.m) 115 V single phase<br>23.37 lbf.in (2.64 N.m) 230 V single phase<br>20.09 lbf.in (2.27 N.m) 400 V three phase<br>20.09 lbf.in (2.27 N.m) 480 V three phase |
| **Nominal Speed** | 1250 rpm 115 V single phase<br>2500 rpm 230 V single phase<br>5000 rpm 400 V three phase<br>6000 rpm 480 V three phase |
| **Maximum Current Irms** | 12 A |
| **Shaft End** | Smooth shaft |
| **Shaft Diameter** | 0.75 in (19 mm) |
| **Shaft Length** | 1.57 in (40 mm) |
| **Ip Degree Of Protection** | IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5<br>IP65 motor: conforming to EN/IEC 60034-5<br>IP65 shaft bushing: conforming to EN/IEC 60034-5 |
| **Encoder Type** | Absolute multiturn SinCos Hiperface |
| **Speed Feedback Resolution** | 128 periods |
| **Holding Brake** | Without |
| **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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Motor Flange Size** | 3.94 in (100 mm) |
| **Electrical Connection** | Straight connector |
| **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** | 1.4 kg.cm² |
| **Stator Resistance** | 3.8 Ohm |
| **Stator Inductance** | 27.15 mH |
| **Maximum Radial Force Fr** | 900 N 1000 rpm<br>720 N 2000 rpm<br>630 N 3000 rpm<br>570 N 4000 rpm<br>530 N 5000 rpm |
| **Maximum Axial Force Fa** | 160 N |
| **Type Of Cooling** | Natural convection |
| **Length** | 6.63 in (168.5 mm) |
| **Centring Collar Diameter** | 3.74 in (95 mm) |
| **Centring Collar Depth** | 0.14 in (3.5 mm) |
| **Number Of Mounting Holes** | 4 |
| **Mounting Holes Diameter** | 0.35 in (9.0 mm) |
| **Circle Diameter Of The Mounting Holes** | 4.53 in (115 mm) |
| **Net Weight** | 9.48 lb(US) (4.3 kg) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC5218359 |
| **Discount Schedule** | PC52 |
| **Gtin** | 3606481972194 |
| **Returnability** | No |
| **Country Of Origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Weight** | 9.46 lb(US) (4.291 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

- Mercury Free
- Rohs Exemption Information — Yes
- Pvc Free

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| **China Rohs Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **Circularity Profile** | No need of specific recycling operations |
| **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 |