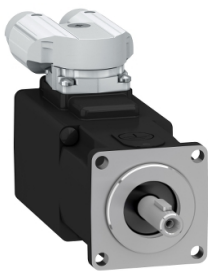


Product data sheet

Specifications



servo motor SH3 040
0,21Nm,key,single,brake,90°conn,
IP54/IP65,9k RPM

SH30401P16F2000

⚠ Discontinued - Service only

⚠ Discontinued on: Mar 31, 2022

⚠ To be end-of-service on: Mar 31, 2025

Main

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

Complementary

| | |
|---------------------------|--|
| Maximum Mechanical Speed | 9000 rpm |
| [Us] Rated Supply Voltage | 115...480 V |
| Network Number Of Phases | Three phase |
| Continuous Stall Current | 1.12 A |
| Continuous Stall Torque | 0.21 N.m at 115...480 V three phase |
| Continuous Power | 170 W |
| Peak Stall Torque | 0.75 N.m at 480 V three phase |
| Nominal Output Power | 77 W at 115 V single phase 77 W at 230 V single phase 166 W at 400 V three phase 166 W at 480 V three phase |
| Nominal Torque | 0.176 N.m at 115 V single phase 0.176 N.m at 230 V single phase 0.184 N.m at 400 V three phase 0.184 N.m at 480 V three phase |
| Nominal Speed | 4000 rpm at 115 V single phase 4000 rpm at 230 V single phase 9000 rpm at 400 V three phase 9000 rpm at 480 V three phase |
| Maximum Current Irms | 4.5 A |
| Shaft End | Parallel key |
| Shaft Diameter | 8 mm |
| Shaft Length | 25 mm |
| Key Width | 3 mm |
| Ip Degree Of Protection | IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5 |
| Encoder Type | Absolute single turn SinCos Hiperface |
| Speed Feedback Resolution | 16 periods |
| Holding Brake | With |

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

| | |
|---------------------------------------|-------------------------------|
| Holding Torque | 0.4 N.m |
| Mounting Support | International standard flange |
| Motor Flange Size | 40 mm |
| Electrical Connection | Straight connector |
| Torque Constant | 0.19 N.m/A at 120 °C |
| Back Emf Constant | 13.6 V/krpm at 20 °C |
| Number Of Motor Poles | 5 |
| Rotor Inertia | 0.04 kg.cm² |
| Stator Resistance | 17.2 Ohm |
| Stator Inductance | 14.6 mH |
| Type Of Cooling | Natural convection |
| Length | 99.4 mm |
| Centring Collar Diameter | 30 mm |
| Centring Collar Depth | 2.5 mm |
| Number Of Mounting Holes | 4 |
| Mounting Holes Diameter | 4.5 mm |
| Circle Diameter Of The Mounting Holes | 46 mm |
| Net Weight | 0.6 kg |

Packing Units

| | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 11.0 cm |
| Package 1 Width | 17.0 cm |
| Package 1 Length | 24.0 cm |
| Package 1 Weight | 627.0 g |

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-CO₂ 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 |