

Product data sheet

Specifications



servo motor BSH, Lexium 32,
0.38N.m, 9000rpm, 40mm, keyed
shaft, 16 Sincos Multi turn, without
brake, IP50

BSH0402P17A2A

Main

| | |
|---------------------------|---|
| Product Or Component Type | Servo motor |
| Device Short Name | BSH |
| Maximum Mechanical Speed | 10000 rpm |
| Continuous Stall Torque | 0.38 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.38 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.38 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Peak Stall Torque | 1.37 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.37 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 1.37 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Nominal Output Power | 275 W for LXM32.U60N4 at 1.5 A, 480 V, three phase 289 W for LXM32.U60N4 at 1.5 A, 400 V, three phase 152 W for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Nominal Torque | 0.292 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.307 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.364 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Nominal Speed | 9000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase 9000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase 4000 rpm for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Shaft End | Keyed |
| Ip Degree Of Protection | IP50 standard |
| Speed Feedback Resolution | 32768 points/turn x 4096 turns |
| Holding Brake | Without |
| Mounting Support | International standard flange |
| Electrical Connection | Rotatable right-angled connectors |

Complementary

| | |
|---------------------------|--|
| Range Compatibility | Lexium 32 |
| Supply Voltage Max | 400 V |
| Network Number Of Phases | Three phase |
| Continuous Stall Current | 1.5 A |
| Maximum Continuous Power | 398 W |
| Maximum Current Irms | 6 A for LXM32.U60N4 at 480 V 6 A for LXM32.U60N4 at 400 V 6 A for LXM32.U45M2 at 230 V |
| Maximum Permanent Current | 1.5 A |
| Switching Frequency | 8 kHz |
| Second Shaft | Without second shaft end |

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

| | |
|---------------------------------------|----------------------------|
| Shaft Diameter | 8 mm |
| Shaft Length | 25 mm |
| Key Width | 12 mm |
| Feedback Type | Multiturn SinCos Hiperface |
| Motor Flange Size | 40 mm |
| Number Of Motor Stacks | 2 |
| Torque Constant | 0.253 N.m/A at 120 °C |
| Back Emf Constant | 18 V/krpm at 20 °C |
| Number Of Motor Poles | 10 |
| Rotor Inertia | 0.0419 kg.cm ² |
| Stator Resistance | 11.6 Ohm at 20 °C |
| Stator Inductance | 12.8 mH at 20 °C |
| Stator Electrical Time Constant | 1.1 ms at 20 °C |
| Maximum Axial Force Fa | 0.2 x Fr |
| Type Of Cooling | Natural convection |
| Length | 93.4 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 |