

Product datasheet

Specifications



servo motor BMH, Lexium 32,
34.4Nm, 3800rpm, untapped shaft,
with brake, IP65, IP67, 128
multiturn encoder, straight

BMH2051P22F1A

Main

| | |
|---------------------------|--|
| Device short name | BMH |
| Product or component type | Servo motor |
| Maximum mechanical speed | 3800 rpm |
| Continuous stall torque | 34.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 34.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase |
| Peak stall torque | 103.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 103.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase |
| Nominal output power | 5400 W for LXM32.D72N4 at 24 A, 400 V, three phase 5400 W for LXM32.D72N4 at 24 A, 480 V, three phase |
| Nominal torque | 25.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 25.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase |
| Nominal speed | 2000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase |
| Product compatibility | LXM32.D72N4 at 400...480 V three phase |
| Shaft end | Smooth shaft |
| IP degree of protection | IP65 standard IP67 with IP67 kit |
| Speed feedback resolution | 131072 points/turn x 4096 turns |
| Holding brake | With |
| mounting support | International standard flange |
| Electrical connection | Straight connectors |

Complementary

| | |
|---------------------------|----------------------------|
| Range compatibility | Lexium 32 |
| [Us] rated supply voltage | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 21.5 A |
| Continuous power | 6.8 W |
| Maximum current Irms | 72 A for LXM32.D72N4 |
| Maximum permanent current | 78.1 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 38 mm |
| Shaft length | 80 mm |
| Feedback type | Multiturn SinCos Hiperface |

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 | 80 N.m holding brake |
| Motor flange size | 205 mm |
| Number of motor stacks | 1 |
| Back emf constant | 104 V/krpm at 120 °C |
| Number of motor poles | 10 |
| Rotor inertia | 87.4 kg.cm² |
| Stator resistance | 0.3 Ohm at 20 °C |
| Stator inductance | 5.9 mH at 20 °C |
| Stator electrical time constant | 19.7 ms at 20 °C |
| Maximum radial force Fr | 3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 40 W |
| Type of cooling | Natural convection |
| Length | 370.5 mm |
| Centring collar diameter | 180 mm |
| Centring collar depth | 4 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 14 mm |
| Circle diameter of the mounting holes | 215 mm |
| Net weight | 37.9 kg |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 36.0 cm |
| Package 1 Width | 31.0 cm |
| Package 1 Length | 58.0 cm |
| Package 1 Weight | 43.0 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-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

| | |
|---|-----|
| <div>✓</div> Mercury Free | |
| <div>✓</div> Rohs Exemption Information | Yes |
| <div>✓</div> Pvc Free | |

Certifications & Standards

| | |
|--------------------------|---|
| 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 |