Product datasheet

Specifications





servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, untapped shaft, without brake, IP65, IP67, 16bit encoder, straight

BMH1402P26A1A

Main

| Device short name | ВМН | |
|---------------------------|--|--|
| Product or component type | Servo motor | |
| Maximum mechanical speed | 4000 rpm | |
| Continuous stall torque | 18.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 18.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Peak stall torque | 50.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 50.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal output power | 3500 W for LXM32.D72N4 at 24 A, 400 V, three phase 3500 W for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal torque | 12.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 12.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal speed | 3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Product compatibility | LXM32.D72N4 at 400480 V three phase | |
| Shaft end | Smooth shaft | |
| IP degree of protection | IP65 standard IP67 with IP67 kit | |
| Speed feedback resolution | 32768 points/turn | |
| Holding brake | Without | |
| 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 | 16.83 A | |
| Continuous power | 4.44 W | |
| Maximum current Irms | 57.4 A for LXM32.D72N4 | |
| Maximum permanent current | 57.4 A | |
| Second shaft | Without second shaft end | |
| Shaft diameter | 24 mm | |
| Shaft length | 50 mm | |
| Feedback type | Single turn SinCos Hiperface | |

| Motor flange size | 140 mm | |
|---------------------------------------|--|--|
| Number of motor stacks | 2 | |
| Torque constant | 1.1 N.m/A at 120 °C | |
| Back emf constant | 70.7 V/krpm at 120 °C | |
| Number of motor poles | 10 | |
| Rotor inertia | 32 kg.cm² | |
| Stator resistance | 0.23 Ohm at 20 °C | |
| Stator inductance | 3 mH at 20 °C | |
| Stator electrical time constant | 13 ms at 20 °C | |
| Maximum radial force Fr | 2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm | |
| Maximum axial force Fa | 0.2 x Fr | |
| Type of cooling | Natural convection | |
| Length | 192 mm | |
| Centring collar diameter | 130 mm | |
| Centring collar depth | 3.5 mm | |
| Number of mounting holes | 4 | |
| Mounting holes diameter | 11 mm | |
| Circle diameter of the mounting holes | 165 mm | |
| Net weight | 12 kg | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|---------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 20.0 cm |
| Package 1 Width | 26.0 cm |
| Package 1 Length | 60.0 cm |
| Package 1 Weight | 12.3 kg |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

| | Mercury Free | |
|----------|----------------------------|-----|
| ⊘ | Rohs Exemption Information | Yes |
| ⊘ | 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 |