

BMH0703P31A2A

servo motor BMH, Lexium 32, 3.4Nm,
8000rpm, keyed shaft, without brake, IP65,
IP67, 128bit encoder, 3 phases



Main

| | |
|---------------------------|--|
| Device short name | BMH |
| Product or Component Type | Servo motor |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 30.09 Lbf.In (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase |
| Peak stall torque | 90.3 Lbf.In (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 90.3 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase |
| Nominal output power | 1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase |
| Nominal torque | 21.2 Lbf.In (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 21.2 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase |
| Nominal speed | 5000 rpm LXM32.D18N4 6 A, 400 V, three phase 5000 rpm LXM32.D18N4 6 A, 480 V, three phase |
| Product compatibility | LXM32.D18N4 400...480 V three phase |
| Shaft end | Keyed |
| IP Degree of Protection | IP65 standard IP67 with IP67 kit |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | Without |
| Mounting Support | International standard flange |
| Electrical Connection | Rotatable right-angled connectors |

Complementary

| | |
|---------------------------|------------------------------|
| Range Compatibility | Lexium 32 |
| [Us] rated supply voltage | 480 V |
| Phase | Three phase |
| Continuous stall current | 3.91 A |
| Continuous power | 1.68 W |
| Maximum current Irms | 12.6 A LXM32.D18N4 |
| Maximum permanent current | 12.57 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.6 in (14 mm) |
| Shaft length | 1.2 in (30 mm) |
| Key width | 0.8 in (20 mm) |
| Feedback type | Single turn SinCos Hiperface |
| Motor flange size | 2.8 in (70 mm) |
| Number of motor stacks | 3 |
| Torque constant | 0.87 N.m/A 248 °F (120 °C) |
| Back emf constant | 55.8 V/krpm 248 °F (120 °C) |
| Number of motor poles | 10 |

| | |
|---------------------------------------|--|
| Rotor inertia | 1.67 kg.cm ² |
| Stator resistance | 2.65 Ohm 68 °F (20 °C) |
| Stator inductance | 8.6 mH 68 °F (20 °C) |
| Stator electrical time constant | 3.2 ms 68 °F (20 °C) |
| Maximum radial force Fr | 730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 7.3 in (186 mm) |
| Centring collar diameter | 2.4 in (60 mm) |
| Centring collar depth | 0.10 in (2.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.2 in (5.5 mm) |
| Circle diameter of the mounting holes | 3.2 in (82 mm) |
| Net Weight | 6.6 lb(US) (3 kg) |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1PC5318282 |
| Discount Schedule | PC53 |
| GTIN | 3606485199146 |
| Returnability | No |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|---------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.3 in (11.0 cm) |
| Package 1 Width | 7.9 in (20.0 cm) |
| Package 1 Length | 15.7 in (40.0 cm) |
| Package 1 Weight | 4.9 lb(US) (2.2 kg) |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

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