

BMH1001T11F2A

servo motor BMH - 3.4 Nm - 6000 rpm - keyed shaft - with brake - IP54



Product availability: Non-Stock - Not normally stocked in distribution facility



Main

| | |
|---------------------------|--|
| Product or component type | Servo motor |
| Device short name | BMH |
| Maximum mechanical speed | 6000 rpm |
| Continuous stall torque | 30.09 Lbf.In (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Peak stall torque | 78.77 Lbf.In (8.9 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.28 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Nominal output power | 700 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase |
| Nominal torque | 29.21 Lbf.In (3.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 24.78 lbf.in (2.8 N.m) LXM32.D18M2 6 A, 230 V, single phase |
| Nominal speed | 2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase |
| Product compatibility | LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase |
| Shaft end | Keyed |
| IP degree of protection | IP54 standard |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |

Complementary

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|---------------------------|--|
| Range compatibility | Lexium 32 |
| [Us] rated supply voltage | 240 V |
| Phase | Three phase |
| Continuous stall current | 5.11 A |
| Continuous power | 1.74 W |
| Maximum current Irms | 15 A LXM32.D30M2 19.4 A LXM32.D18M2 |
| Maximum permanent current | 19.38 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 0.75 in (19 mm) |
| Shaft length | 1.57 in (40 mm) |
| Key width | 1.18 in (30 mm) |
| Feedback type | Single turn SinCos Hiperface |
| Holding torque | 48.68 lbf.in (5.5 N.m) holding brake |
| Motor flange size | 3.94 in (100 mm) |
| Number of motor stacks | 1 |
| Torque constant | 0.67 N.m/A 248 °F (120 °C) |
| Back emf constant | 43.3 V/krpm 248 °F (120 °C) |

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|---------------------------------------|--|
| Number of motor poles | 10 |
| Rotor inertia | 3.68 kg.cm ² |
| Stator resistance | 1.19 Ohm 68 °F (20 °C) |
| Stator inductance | 5.3 mH 68 °F (20 °C) |
| Stator electrical time constant | 4.5 ms 68 °F (20 °C) |
| Maximum radial force Fr | 900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 12 W |
| Type of cooling | Natural convection |
| Length | 6.70 in (170.3 mm) |
| Centring collar diameter | 3.74 in (95 mm) |
| Centring collar depth | 0.14 in (3.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.35 in (9 mm) |
| Circle diameter of the mounting holes | 4.53 in (115 mm) |
| Net weight | 10.58 lb(US) (4.8 kg) |

Ordering and shipping details

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|---------------------|--------------------------|
| Category | 18282 - LEXIUM 32 MOTORS |
| Discount Schedule | PC53 |
| GTIN | 03606485200774 |
| Package weight(Lbs) | 4.99 kg (11 lb(US)) |
| Returnability | No |
| Country of origin | DE |

Offer Sustainability

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|----------------------------|---|
| 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 Carcinogen & 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) EU RoHS Declaration |
| 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. |

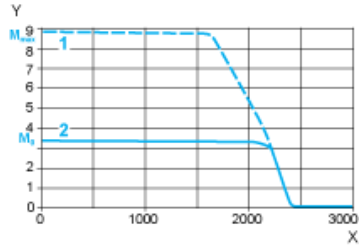
Contractual warranty

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| Warranty | 18 months |
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115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

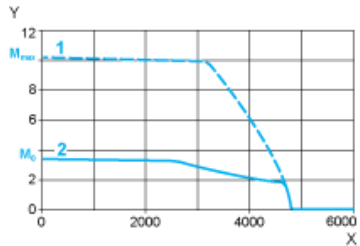


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque