BMH1002P17F2A

servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder





Main

| Device short name | ВМН |
|---------------------------|---|
| Product or component type | Servo motor |
| Maximum mechanical speed | 6000 rpm |
| Continuous stall torque | 6.2 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 6.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase |
| Peak stall torque | 18.4 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase |
| Nominal output power | 1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase |
| Nominal torque | 3.9 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.m for LXM32.D18N4 at 6 A, 480 V, three phase |
| Nominal speed | 4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase |
| Product compatibility | LXM32.D18N4 at 400480 V three phase |
| Shaft end | Keyed |
| IP degree of protection | IP54 standard |
| Speed feedback resolution | 32768 points/turn x 4096 turns |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |

Complementary

| Complementary | | |
|---------------------------|----------------------------|--|
| Range compatibility | Lexium 32 | |
| [Us] rated supply voltage | 480 V | |
| Network number of phases | Three phase | |
| Continuous stall current | 5.04 A | |
| Continuous power | 2.36 W | |
| Maximum current Irms | 18 A for LXM32.D18N4 | |
| Maximum permanent current | 18.23 A | |
| Second shaft | Without second shaft end | |
| Shaft diameter | 19 mm | |
| Shaft length | 40 mm | |
| Key width | 30 mm | |
| Feedback type | Multiturn SinCos Hiperface | |
| Holding torque | 5.5 N.m holding brake | |
| Motor flange size | 100 mm | |
| Number of motor stacks | 2 | |
| | | |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| Torque constant | 1.2 N.m/A at 120 °C | | |
|---------------------------------------|---|--|--|
| Back emf constant | 77 V/krpm at 120 °C | | |
| Number of motor poles | 10 | | |
| Rotor inertia | 6.77 kg.cm² | | |
| Stator resistance | 1.51 Ohm at 20 °C | | |
| Stator inductance | 7.5 mH at 20 °C | | |
| Stator electrical time constant | 5 ms at 20 °C | | |
| Maximum radial force Fr | 990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm | | |
| Maximum axial force Fa | 0.2 x Fr | | |
| Brake pull-in power | 12 W | | |
| Type of cooling | Natural convection | | |
| Length | 202.3 mm | | |
| Centring collar diameter | 95 mm | | |
| Centring collar depth | 3.5 mm | | |
| Number of mounting holes | 4 | | |
| Mounting holes diameter | 9 mm | | |
| Circle diameter of the mounting holes | 115 mm | | |
| Net weight | 6.4 kg | | |
| | | | |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|---------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 22.0 cm | |
| Package 1 Width | 20.0 cm | |
| Package 1 Length | 40.0 cm | |
| Package 1 Weight | 6.68 kg | |
| | | |

Offer Sustainability

| Sustainable offer status | Green Premium product | | | |
|----------------------------|---|--|--|--|
| REACh Regulation | ☑ REACh Declaration | | | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | | |
| Mercury free | Yes | | | |
| China RoHS Regulation | ☑ China RoHS Declaration | | | |
| RoHS exemption information | €Yes | | | |
| 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 | | | |
| PVC free | Yes | | | |

Contractual warranty

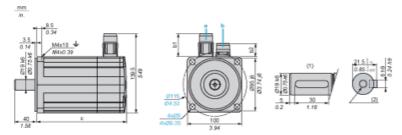
| Warranty | 18 months |
|----------|-----------|

Product data sheet **Dimensions Drawings**

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Servo Motors Dimensions

Example with Straight Connectors



- Power supply for servo motor brake
- Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
 (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

| Straight connector | S | Rotatable angled connectors | | c (without brake) | c (with brake) |
|--------------------|------|-----------------------------|------|-------------------|----------------|
| b1 | b2 | b1 | b2 | | |
| 39.5 | 25.5 | 39.5 | 39.5 | 160 | 202 |

Dimensions in in.

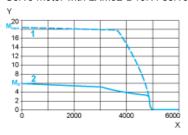
| Straight connectors | 3 | Rotatable angled connectors | | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b1 | b2 | b1 | b2 | | |
| 1.55 | 1.00 | 1.55 | 1.55 | 6.29 | 7.95 |

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

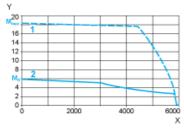


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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