



Main

| | |
|---------------------------|---|
| Product or component type | Servo motor |
| Device short name | BMH |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 3.4 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 3.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase |
| Peak stall torque | 8.7 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 10.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase |
| Nominal output power | 650 W for LXM32.D30M2 at 10 A, 115 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase |
| Nominal torque | 3.1 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 2.9 N.m for LXM32.D18M2 at 6 A, 230 V, single phase |
| Nominal speed | 2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 3000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase |
| Product compatibility | LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase |
| Shaft end | Smooth shaft |
| 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 | Straight connectors |

Complementary

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|---------------------------|----------------------|
| Range compatibility | Lexium 32 |
| [Us] rated supply voltage | 240 V |
| Network number of phases | Three phase |
| Continuous stall current | 5.55 A |
| Continuous power | 1.68 W |
| Maximum current Irms | 15 A for LXM32.D30M2 |

17.8 A for LXM32.D18M2

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|---------------------------------------|--|
| Maximum permanent current | 17.84 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 14 mm |
| Shaft length | 30 mm |
| Feedback type | Multiturn SinCos Hiperface |
| Holding torque | 3 N.m holding brake |
| Motor flange size | 70 mm |
| Number of motor stacks | 3 |
| Torque constant | 0.61 N.m/A at 120 °C |
| Back emf constant | 39.3 V/krpm at 120 °C |
| Number of motor poles | 10 |
| Rotor inertia | 1.78 kg.cm ² |
| Stator resistance | 1.32 Ohm at 20 °C |
| Stator inductance | 4.3 mH at 20 °C |
| Stator electrical time constant | 3.3 ms at 20 °C |
| Maximum radial force Fr | 730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 7 W |
| Type of cooling | Natural convection |
| Length | 225 mm |
| Centring collar diameter | 60 mm |
| Centring collar depth | 2.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 mm |
| Circle diameter of the mounting holes | 82 mm |
| Product weight | 4 kg |

Offer Sustainability

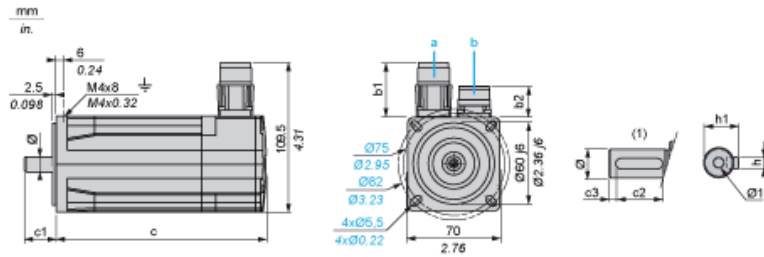
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China 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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Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)

Dimensions in mm

| Straight connect | | Rotatable angled | | c (without brake) | c (with brake) | c1 | c2 | c3 | h | h1 | Ø | Ø1 for screws |
|------------------|------|------------------|------|-------------------|----------------|----|----|----|------|-----------------------------------|-------|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | |
| 39.5 | 25.5 | 39.5 | 39.5 | 186 | 225 | 30 | 20 | 5 | 5 h9 | 16 ⁺⁰ _{-0.13} | 14 k6 | M5 x 17 |

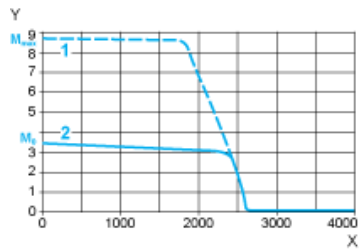
Dimensions in in.

| Straight connect | | Rotatable angled | | c (without brake) | c (with brake) | c1 | c2 | c3 | h | h1 | Ø | Ø1 for screws |
|------------------|----|------------------|------|-------------------|----------------|------|------|------|---------|---------------------------------------|---------|---------------|
| b1 | b2 | b1 | b2 | | | | | | | | | |
| 1.55 | 1 | 1.55 | 1.55 | 7.32 | 8.85 | 1.18 | 0.78 | 0.19 | 0.20 h9 | 0.63 ⁺⁰ _{-0.0051} | 0.55 k6 | M5 x 0.67 |

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

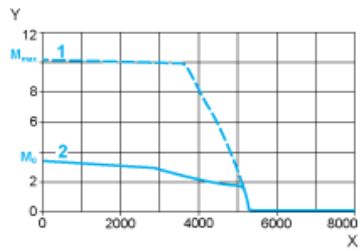


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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