



Main

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|---------------------------|---|
| 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 10 A at 115 V single phase 3.4 N.m for LXM32.D18M2 6 A at 230 V single phase |
| Peak stall torque | 8.7 N.m for LXM32.D30M2 10 A at 115 V single phase 10.2 N.m for LXM32.D18M2 6 A at 230 V single phase |
| Nominal output power | 900 W for LXM32.D18M2 6 A at 230 V single phase 650 W for LXM32.D30M2 10 A at 115 V single phase |
| Nominal torque | 3.1 N.m for LXM32.D30M2 10 A at 115 V single phase 2.9 N.m for LXM32.D18M2 6 A at 230 V single phase |
| Nominal speed | 2000 rpm for LXM32.D30M2 10 A at 115 V single phase 3000 rpm for LXM32.D18M2 6 A at 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 | IP65 (standard) IP67 (with IP67 kit) |
| Speed feedback resolution | 32768 points/turn |
| Holding brake | Without |
| 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 |
| Network number of phases | Three phase |
| Continuous stall current | 5.55 A |
| Continuous power | 1.68 W |

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|---------------------------------------|--|
| Maximum current Irms | 15 A for LXM32.D30M2 17.8 A for LXM32.D18M2 |
| Maximum permanent current | 17.84 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 14 mm |
| Shaft length | 30 mm |
| Feedback type | Single turn SinCos Hiperface |
| 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 | 1.67 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 | 400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 186 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 | 3 kg |

Offer Sustainability

| | |
|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 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 |

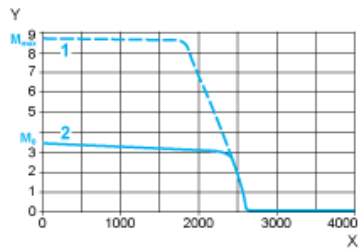
Dimensions in in.

| 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

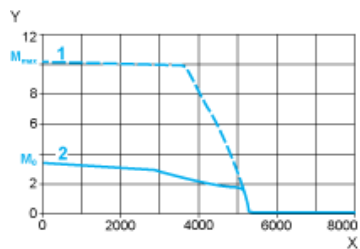


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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