



Main

| | |
|---------------------------|--|
| Product or component type | Servo motor |
| Device short name | BMH |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 1.4 N.m for LXM32.D12N4 3 A at 400 V three phase 1.4 N.m for LXM32.D12N4 3 A at 480 V three phase 1.2 N.m for LXM32.U60N4 1.5 A at 400 V three phase 1.2 N.m for LXM32.U60N4 1.5 A at 480 V three phase |
| Peak stall torque | 4.2 N.m for LXM32.U60N4 1.5 A at 400 V three phase 4.2 N.m for LXM32.U60N4 1.5 A at 480 V three phase 4.2 N.m for LXM32.D12N4 3 A at 400 V three phase 4.2 N.m for LXM32.D12N4 3 A at 480 V three phase |
| Nominal output power | 700 W for LXM32.D12N4 3 A at 400 V three phase 700 W for LXM32.D12N4 3 A at 480 V three phase 350 W for LXM32.U60N4 1.5 A at 400 V three phase 350 W for LXM32.U60N4 1.5 A at 480 V three phase |
| Nominal torque | 1.1 N.m for LXM32.U60N4 1.5 A at 400 V three phase 1.1 N.m for LXM32.U60N4 1.5 A at 480 V three phase 1.3 N.m for LXM32.D12N4 3 A at 400 V three phase 1.3 N.m for LXM32.D12N4 3 A at 480 V three phase |
| Nominal speed | 5000 rpm for LXM32.D12N4 3 A at 400 V three phase 3000 rpm for LXM32.U60N4 1.5 A at 480 V three phase 5000 rpm for LXM32.D12N4 3 A at 480 V three phase 3000 rpm for LXM32.U60N4 1.5 A at 400 V three phase |
| Product compatibility | LXM32.U60N4 at 400...480 V three phase LXM32.D12N4 at 400...480 V three phase |
| Shaft end | Keyed |
| IP degree of protection | IP65 (standard) IP67 (with IP67 kit) |
| Speed feedback resolution | 131072 points/turn x 4096 turns |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |

Complementary

| | |
|---------------------------------------|--|
| Range compatibility | Lexium 32 |
| [Us] rated supply voltage | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 1.78 A |
| Continuous power | 1.05 W |
| Maximum current Irms | 6 A for LXM32.U60N4 6 A for LXM32.D12N4 |
| Maximum permanent current | 5.97 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 11 mm |
| Shaft length | 23 mm |
| Key width | 18 mm |
| Feedback type | Multiturn SinCos Hiperface |
| Holding torque | 3 N.m (holding brake) |
| Motor flange size | 70 mm |
| Number of motor stacks | 1 |
| Torque constant | 0.79 N.m/A at 120 °C |
| Back emf constant | 50.72 V/krpm at 120 °C |
| Number of motor poles | 10 |
| Rotor inertia | 0.7 kg.cm ² |
| Stator resistance | 8.3 Ohm at 20 °C |
| Stator inductance | 23.4 mH at 20 °C |
| Stator electrical time constant | 2.8 ms at 20 °C |
| Maximum radial force Fr | 360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 7 W |
| Type of cooling | Natural convection |
| Length | 161 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 | 2.6 kg |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0936 - Schneider Electric declaration of conformity 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 |
|-----------------|-----------|

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 | 122 | 161 | 23 | 18 | 2.5 | 4 h9 | 12.5 ⁺⁰ _{-0.13} | 11 k6 | M4 x 14 |

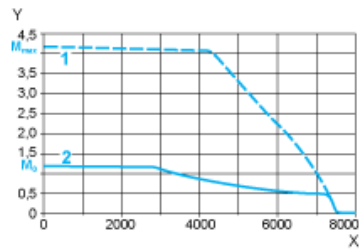
Dimensions in in.

| 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 | 4.80 | 6.33 | 0.90 | 0.70 | 0.09 | 0.16 h9 | 0.49 ⁺⁰ _{-0.0051} | 0.43 k6 | M4 x 0.55 |

400 V 3-Phase Supply Voltage

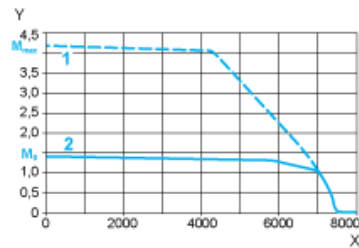
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive

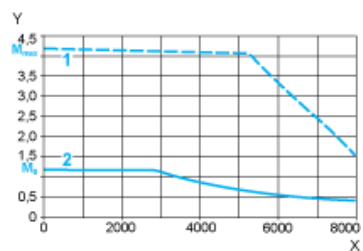


X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

480 V 3-Phase Supply Voltage

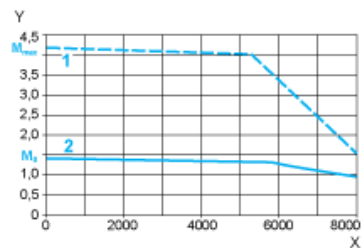
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive



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