Product data sheet

Specifications





① Discontinued

servo motor BMH, Lexium 32, 1.2Nm, 8000rpm, keyed shaft, with brake, IP65, IP67, 16 multiturn encoder, straight

BMH0701P37F1A

() Discontinued on: Jun 30, 2023

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

Main

| Servo motor | | | | | | | |
|--|--|--|--|--|--|--|--|
| ВМН | | | | | | | |
| 8000 rpm | | | | | | | |
| 10.62 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 10.62 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 12.39 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 12.39 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 480 V, three phase | | | | | | | |
| 37.17 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 480 V, three phase | | | | | | | |
| 350 W LXM32.U60N4 1.5 A, 400 V, three phase 350 W LXM32.U60N4 1.5 A, 480 V, three phase 700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase | | | | | | | |
| 9.74 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 9.74 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 11.51 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 11.51 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 480 V, three phase | | | | | | | |
| 3000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 3000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 5000 rpm LXM32.D12N4 3 A, 400 V, three phase 5000 rpm LXM32.D12N4 3 A, 480 V, three phase | | | | | | | |
| LXM32.U60N4 400480 V three phase LXM32.D12N4 400480 V three phase | | | | | | | |
| Keyed | | | | | | | |
| IP65 standard IP67 with IP67 kit | | | | | | | |
| 32768 points/turn x 4096 turns | | | | | | | |
| With | | | | | | | |
| International standard flange | | | | | | | |
| Straight connectors | | | | | | | |
| | | | | | | | |

Complementary

| Range Compatibility | Lexium 32 |
|---------------------------|-------------|
| [Us] Rated Supply Voltage | 480 V |
| Phase | Three phase |

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

| Continuous Stall Current | 1.78 A |
|---------------------------------------|--|
| Continuous Power | 1.05 W |
| Maximum Current Irms | 6 A LXM32.U60N4 6 A LXM32.D12N4 |
| Maximum Permanent Current | 5.97 A |
| Second Shaft | Without second shaft end |
| Shaft Diameter | 0.43 in (11 mm) |
| Shaft Length | 0.91 in (23 mm) |
| Key Width | 0.71 in (18 mm) |
| Feedback Type | Multiturn SinCos Hiperface |
| Holding Torque | 26.55 lbf.in (3 N.m) holding brake |
| Motor Flange Size | 2.76 in (70 mm) |
| Number Of Motor Stacks | 1 |
| Torque Constant | 0.79 N.m/A 248 °F (120 °C) |
| Back Emf Constant | 50.72 V/krpm 248 °F (120 °C) |
| Number Of Motor Poles | 10 |
| Rotor Inertia | 0.7 kg.cm ² |
| Stator Resistance | 8.3 Ohm 68 °F (20 °C) |
| Stator Inductance | 23.4 mH 68 °F (20 °C) |
| Stator Electrical Time Constant | 2.8 ms 68 °F (20 °C) |
| Maximum Radial Force Fr | 660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm |
| Maximum Axial Force Fa | 0.2 x Fr |
| Brake Pull-In Power | 7 W |
| Type Of Cooling | Natural convection |
| Length | 6.34 in (161 mm) |
| Centring Collar Diameter | 2.36 in (60 mm) |
| Centring Collar Depth | 0.10 in (2.5 mm) |
| Number Of Mounting Holes | 4 |
| Mounting Holes Diameter | 0.22 in (5.5 mm) |
| Circle Diameter Of The Mounting Holes | 3.23 in (82 mm) |
| Net Weight | 5.73 lb(US) (2.6 kg) |

Ordering and shipping details

| Category | US1PC5318282 |
|-------------------|---------------|
| Discount Schedule | PC53 |
| Gtin | 3606485193434 |
| Returnability | No |
| Country Of Origin | DE |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|----------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 4.33 in (11.0 cm) |
| Package 1 Width | 7.87 in (20.0 cm) |
| Package 1 Length | 15.75 in (40.0 cm) |
| Package 1 Weight | 6.17 lb(US) (2.8 kg) |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

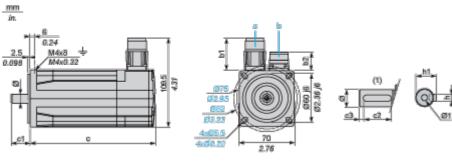
Certifications & Standards

| Reach Regulation | REACh Declaration | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | | | | | | |
| China Rohs Regulation | China RoHS declaration | | | | | | | |
| Environmental Disclosure | Product Environmental Profile | | | | | | | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | | | | | | | |
| Circularity Profile | No need of specific recycling operations | | | | | | | |
| 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 cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | | | | | | | |

Dimensions Drawings

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 Rotatable ar connectors | | • | c (without c (with brake) brake) | | c1 c2 | c2 | c3 | h | h1 | ø | Ø1 for | |
|----------------------------------|------|------|-------------------------------------|--------|--------|----|----|-----|------|------------------------------|--------|---------|
| b1 | b2 | b1 | b2 | brake) | brake) | | | | | | | screws |
| 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.

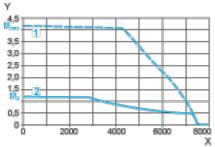
| Straight connectors | | Rotatable angled connectors | | c (without brake) | c (with brake) | c1 | c2 | c3 | h | h1 | ø | Ø1 for screws |
|---------------------|----|-----------------------------------|------|-------------------------|-------------------|------|------|------|---------|--------------------------------|---------|------------------|
| b1 | b2 | b1 | b2 | brake) | | | | | | | | |
| 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 |

Performance Curves

400 V 3-Phase Supply Voltage

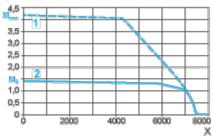
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

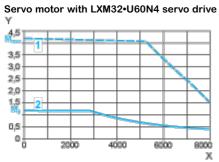
Servo motor with LXM32•D12N4 servo drive Υ



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

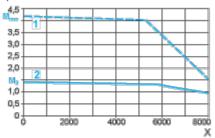
480 V 3-Phase Supply Voltage

Torque/Speed Curves



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

Servo motor with LXM32•D12N4 servo drive Υ



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