

servo motor BMH, Lexium 32, 1.4Nm, 8000rpm, untapped shaft, without brake, IP54, 16 multiturn encoder

BMH0701T07A2A

Main

| Product Or Component Type | Servo motor |
|---------------------------|---|
| Device Short Name | вмн |
| Maximum Mechanical Speed | 8000 rpm |
| Continuous Stall Torque | 1.4 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.4 N.m for LXM32.D18M2 at 6 A, 115 V, single phase |
| Peak Stall Torque | 4 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 4.2 N.m for LXM32.D18M2 at 6 A, 115 V, single phase |
| Nominal Output Power | 450 W for LXM32.U90M2 at 3 A, 230 V, single phase 350 W for LXM32.D18M2 at 6 A, 115 V, single phase |
| Nominal Torque | 1.1 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.35 N.m for LXM32.D18M2 at 6 A, 115 V, single phase |
| Nominal Speed | 4000 rpm for LXM32.U90M2 at 3 A, 230 V, single phase 2500 rpm for LXM32.D18M2 at 6 A, 115 V, single phase |
| Product Compatibility | LXM32.D18M2 at 115 V single phase LXM32.U90M2 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 | Without |
| Mounting Support | International standard flange |
| Electrical Connection | Rotatable right-angled connectors |

Complementary

| Range Compatibility | Lexium 32 |
|---------------------------|--|
| [Us] Rated Supply Voltage | 240 V |
| Network Number Of Phases | Three phase |
| Continuous Stall Current | 2.85 A |
| Continuous Power | 1.05 W |
| Maximum Current Irms | 9.6 A for LXM32.D18M2 9.6 A for LXM32.U90M2 |
| Maximum Permanent Current | 9.56 A |
| Second Shaft | Without second shaft end |
| Shaft Diameter | 11 mm |
| Shaft Length | 23 mm |
| Feedback Type | Multiturn SinCos Hiperface |

| Motor Flange Size | 70 mm |
|---------------------------------------|--|
| Number Of Motor Stacks | 1 |
| Torque Constant | 0.49 N.m/A at 120 °C |
| Back Emf Constant | 31.17 V/krpm at 120 °C |
| Number Of Motor Poles | 10 |
| Rotor Inertia | 0.59 kg.cm ² |
| Stator Resistance | 3.2 Ohm at 20 °C |
| Stator Inductance | 9.1 mH at 20 °C |
| Stator Electrical Time Constant | 2.8 ms at 20 °C |
| Maximum Radial Force Fr | 660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm |
| Maximum Axial Force Fa | 0.2 x Fr |
| Type Of Cooling | Natural convection |
| Length | 122 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 |
| Net Weight | 1.6 kg |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 11.0 cm |
| Package 1 Width | 19.0 cm |
| Package 1 Length | 39.5 cm |
| Package 1 Weight | 2.196 kg |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 4 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 10.036 kg |

Contractual warranty

Warranty 18 months

Sustainability

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





Yes



Pvc Free

Certifications & Standards

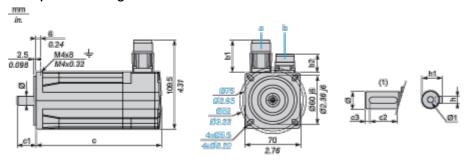
| Reach Regulation | REACh Declaration |
|---------------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must 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 |

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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 connectors | | Rotatable angled connectors | | c (without | c (with | c1 | c2 | сЗ | 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 | | (without brake) | c (with brake) | c1 | c2 | сЗ | 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 |

Product data sheet

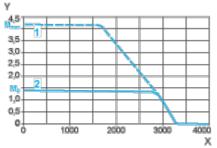
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive

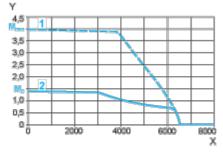


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



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