

# Product datasheet

Specifications



servo motor BMH, Lexium 32,  
6Nm, 6000rpm, untapped shaft,  
without brake, IP65, IP67, 16bit  
encoder, straight

BMH1002T26A1A

❗ Discontinued

❗ Discontinued on: 18 Apr 2024

❗ To be end-of-service on: 18 Apr 2026

## Main

|                           |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Device short name         | BMH                                                                                                            |
| Product or component type | Servo motor                                                                                                    |
| Maximum mechanical speed  | 6000 rpm                                                                                                       |
| Continuous stall torque   | 6 N.m for LXM32.D30M2 at 10 A, 115 V, single phase<br>6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase       |
| Peak stall torque         | 10.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase<br>18.4 N.m for LXM32.D30M2 at 10 A, 230 V, single phase |
| Nominal output power      | 750 W for LXM32.D30M2 at 10 A, 115 V, single phase<br>1450 W for LXM32.D30M2 at 10 A, 230 V, single phase      |
| Nominal torque            | 3.5 N.m for LXM32.D30M2 at 10 A, 115 V, single phase<br>4.6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase   |
| Nominal speed             | 2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase<br>3000 rpm for LXM32.D30M2 at 10 A, 230 V, single phase |
| Product compatibility     | LXM32.D30M2 at 115 V single phase<br>LXM32.D30M2 at 230 V single phase                                         |
| Shaft end                 | Smooth shaft                                                                                                   |
| IP degree of protection   | IP65 standard<br>IP67 with IP67 kit                                                                            |
| Speed feedback resolution | 32768 points/turn                                                                                              |
| Holding brake             | Without                                                                                                        |
| mounting support          | International standard flange                                                                                  |
| Electrical connection     | Straight connectors                                                                                            |

## Complementary

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Range compatibility       | Lexium 32                                                      |
| [Us] rated supply voltage | 240 V                                                          |
| Network number of phases  | Three phase                                                    |
| Continuous stall current  | 8.65 A                                                         |
| Continuous power          | 2.39 W                                                         |
| Maximum current Irms      | 15 A for LXM32.D30M2 at 115 V<br>30 A for LXM32.D30M2 at 230 V |
| Maximum permanent current | 30.24 A                                                        |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Second shaft                          | Without second shaft end                                                                              |
| Shaft diameter                        | 19 mm                                                                                                 |
| Shaft length                          | 40 mm                                                                                                 |
| Feedback type                         | Single turn SinCos Hiperface                                                                          |
| Motor flange size                     | 100 mm                                                                                                |
| Number of motor stacks                | 2                                                                                                     |
| Torque constant                       | 0.72 N.m/A at 120 °C                                                                                  |
| Back emf constant                     | 46.2 V/krpm at 120 °C                                                                                 |
| Number of motor poles                 | 10                                                                                                    |
| Rotor inertia                         | 6.28 kg.cm²                                                                                           |
| Stator resistance                     | 0.54 Ohm at 20 °C                                                                                     |
| Stator inductance                     | 2.7 mH at 20 °C                                                                                       |
| Stator electrical time constant       | 5 ms at 20 °C                                                                                         |
| Maximum radial force Fr               | 990 N at 1000 rpm<br>790 N at 2000 rpm<br>690 N at 3000 rpm<br>620 N at 4000 rpm<br>580 N at 5000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                                              |
| Type of cooling                       | Natural convection                                                                                    |
| Length                                | 160.6 mm                                                                                              |
| Centring collar diameter              | 95 mm                                                                                                 |
| Centring collar depth                 | 3.5 mm                                                                                                |
| Number of mounting holes              | 4                                                                                                     |
| Mounting holes diameter               | 9 mm                                                                                                  |
| Circle diameter of the mounting holes | 115 mm                                                                                                |
| Net weight                            | 4.92 kg                                                                                               |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 22.0 cm |
| Package 1 Width              | 20.0 cm |
| Package 1 Length             | 40.0 cm |
| Package 1 Weight             | 5.22 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

|                                         |     |
|-----------------------------------------|-----|
| <div>✓</div> Mercury Free               |     |
| <div>✓</div> Rohs Exemption Information | Yes |
| <div>✓</div> Pvc Free                   |     |

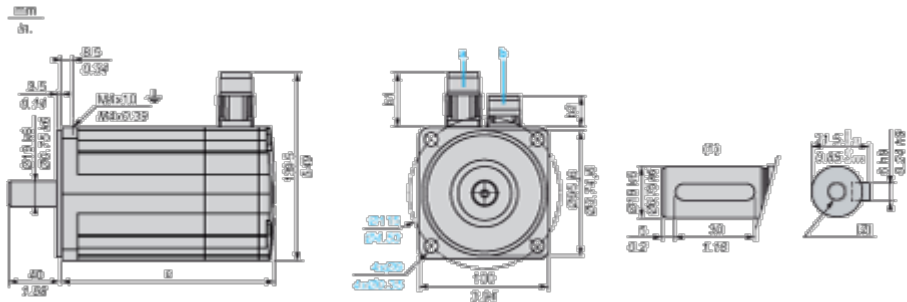
Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| 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                                                                                    |

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)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

| Straight connectors |      | Rotatable angled connectors |      | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b1                  | b2   | b1                          | b2   |                   |                |
| 39.5                | 25.5 | 39.5                        | 39.5 | 160               | 202            |

Dimensions in in.

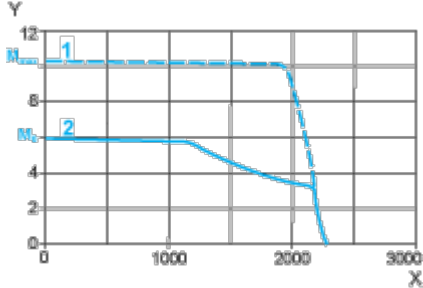
| Straight connectors |      | Rotatable angled connectors |      | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b1                  | b2   | b1                          | b2   |                   |                |
| 1.55                | 1.00 | 1.55                        | 1.55 | 6.29              | 7.95           |

Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

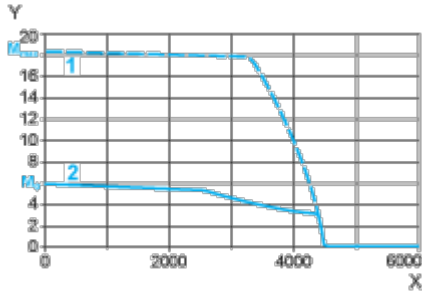


- X    Speed in rpm
- Y    Torque in Nm
- 1    Peak torque
- 2    Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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