

# BMH0701T26F1A

servo motor BMH - 1.4 Nm - 8000 rpm -  
untapped shaft - with brake - IP65/IP67



## Main

|                           |  |
|---------------------------|--|
| Product or component type | Servo motor  |
| Device short name         | BMH  |
| Maximum mechanical speed  | 8000 rpm   |
| Continuous stall torque   | 12.39 Lbf.in (1.4 N.m) LXM32.U90M2 3 A, 230 V, single phase<br>12.39 lbf.in (1.4 N.m) LXM32.D18M2 6 A, 115 V, single phase |
| Peak stall torque         | 35.40 Lbf.in (4 N.m) LXM32.U90M2 3 A, 230 V, single phase<br>37.17 lbf.in (4.2 N.m) LXM32.D18M2 6 A, 115 V, single phase   |
| Nominal output power      | 450 W LXM32.U90M2 3 A, 230 V, single phase<br>350 W LXM32.D18M2 6 A, 115 V, single phase                                   |
| Nominal torque            | 9.74 Lbf.in (1.1 N.m) LXM32.U90M2 3 A, 230 V, single phase<br>11.95 lbf.in (1.35 N.m) LXM32.D18M2 6 A, 115 V, single phase |
| Nominal speed             | 4000 rpm LXM32.U90M2 3 A, 230 V, single phase<br>2500 rpm LXM32.D18M2 6 A, 115 V, single phase                             |
| Product compatibility     | LXM32.D18M2 115 V single phase<br>LXM32.U90M2 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             | With   |
| Mounting support          | International standard flange  |
| Electrical connection     | Straight connectors  |

## Complementary

|                           |  |
|---------------------------|--|
| Range compatibility       | Lexium 32                              |
| [Us] rated supply voltage | 240 V                                  |
| Phase                     | Three phase                            |
| Continuous stall current  | 2.85 A                                 |
| Continuous power          | 1.05 W                                 |
| Maximum current Irms      | 9.6 A LXM32.D18M2<br>9.6 A LXM32.U90M2 |
| Maximum permanent current | 9.56 A                                 |
| Second shaft              | Without second shaft end               |
| Shaft diameter            | 0.43 in (11 mm)                        |
| Shaft length              | 0.91 in (23 mm)                        |
| Feedback type             | Single turn 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           | 0.49 N.m/A 248 °F (120 °C)             |
| Back emf constant         | 31.17 V/krpm 248 °F (120 °C)           |
| Number of motor poles     | 10                                     |

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|                                       |  |
|---------------------------------------|--|
| Rotor inertia                         | 0.7 kg.cm <sup>2</sup>   |
| Stator resistance                     | 3.2 Ohm 68 °F (20 °C)  |
| Stator inductance                     | 9.1 mH 68 °F (20 °C)   |
| Stator electrical time constant       | 2.8 ms 68 °F (20 °C)   |
| Maximum radial force Fr               | 660 N 1000 rpm<br>520 N 2000 rpm<br>460 N 3000 rpm<br>410 N 4000 rpm<br>380 N 5000 rpm<br>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              | 18282 - LEXIUM 32 MOTORS |
| Discount Schedule     | PC53                     |
| GTIN                  | 03606485194219           |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 6.16 lb(US) (2.79 kg)    |
| Returnability         | No                       |
| Country of origin     | DE                       |

### Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 4.33 in (11 cm)  |
| Package 1 width        | 7.87 in (20 cm)  |
| Package 1 Length       | 15.75 in (40 cm) |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| 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.  |
| PVC free                   | Yes   |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 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 connectors |      | Rotatable angled connectors |      | 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 <sup>+0</sup> <sub>-0.13</sub> | 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   |                   |                |      |      |      |         |                                       |         |               |
| 1.55                | 1  | 1.55                        | 1.55 | 4.80              | 6.33           | 0.90 | 0.70 | 0.09 | 0.16 h9 | 0.49 <sup>+0</sup> <sub>-0.0051</sub> | 0.43 k6 | M4 x 0.55     |

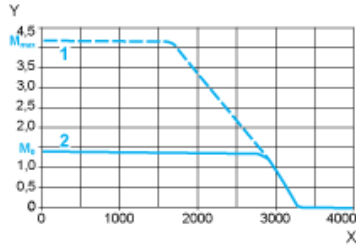
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115 V Single-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32-D18M2 servo drive



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

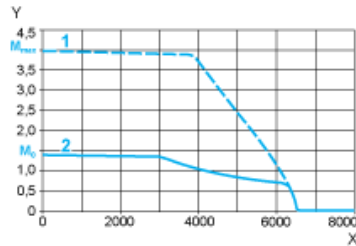
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230 V Single-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32-U90M2 servo drive



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