

# BMH1002T26A1A

servo motor BMH - 6 Nm - 6000 rpm -  
untapped shaft - without brake - IP65/IP67



## Main

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Product or component type | Servo motor                                                                                                                     |
| Device short name         | BMH                                                                                                                             |
| Maximum mechanical speed  | 6000 rpm                                                                                                                        |
| Continuous stall torque   | 53.10 Lbf.in (6 N.m) LXM32.D30M2 10 A, 115 V, single phase<br>53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 230 V, single phase        |
| Peak stall torque         | 91.16 Lbf.in (10.3 N.m) LXM32.D30M2 10 A, 115 V, single phase<br>162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase |
| Nominal output power      | 750 W LXM32.D30M2 10 A, 115 V, single phase<br>1450 W LXM32.D30M2 10 A, 230 V, single phase                                     |
| Nominal torque            | 30.98 Lbf.in (3.5 N.m) LXM32.D30M2 10 A, 115 V, single phase<br>40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase    |
| Nominal speed             | 2000 rpm LXM32.D30M2 10 A, 115 V, single phase<br>3000 rpm LXM32.D30M2 10 A, 230 V, single phase                                |
| Product compatibility     | LXM32.D30M2 115 V single phase<br>LXM32.D30M2 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                                            |
| Phase                     | Three phase                                      |
| Continuous stall current  | 8.65 A                                           |
| Continuous power          | 2.39 W                                           |
| Maximum current Irms      | 15 A LXM32.D30M2 115 V<br>30 A LXM32.D30M2 230 V |
| Maximum permanent current | 30.24 A                                          |
| Second shaft              | Without second shaft end                         |
| Shaft diameter            | 0.75 in (19 mm)                                  |
| Shaft length              | 1.57 in (40 mm)                                  |
| Feedback type             | Single turn SinCos Hiperface                     |
| Motor flange size         | 3.94 in (100 mm)                                 |
| Number of motor stacks    | 2                                                |
| Torque constant           | 0.72 N.m/A 248 °F (120 °C)                       |
| Back emf constant         | 46.2 V/krpm 248 °F (120 °C)                      |
| Number of motor poles     | 10                                               |
| Rotor inertia             | 6.28 kg.cm²                                      |

|                                       |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
| Stator resistance                     | 0.54 Ohm 68 °F (20 °C)                                                                 |
| Stator inductance                     | 2.7 mH 68 °F (20 °C)                                                                   |
| Stator electrical time constant       | 5 ms 68 °F (20 °C)                                                                     |
| Maximum radial force Fr               | 990 N 1000 rpm<br>790 N 2000 rpm<br>690 N 3000 rpm<br>620 N 4000 rpm<br>580 N 5000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                               |
| Type of cooling                       | Natural convection                                                                     |
| Length                                | 6.32 in (160.6 mm)                                                                     |
| Centring collar diameter              | 3.74 in (95 mm)                                                                        |
| Centring collar depth                 | 0.14 in (3.5 mm)                                                                       |
| Number of mounting holes              | 4                                                                                      |
| Mounting holes diameter               | 0.35 in (9 mm)                                                                         |
| Circle diameter of the mounting holes | 4.53 in (115 mm)                                                                       |
| Net Weight                            | 10.85 lb(US) (4.92 kg)                                                                 |

### Ordering and shipping details

|                       |                          |
|-----------------------|--------------------------|
| Category              | 18282 - LEXIUM 32 MOTORS |
| Discount Schedule     | PC53                     |
| GTIN                  | 03606485197470           |
| Nbr. of units in pkg. | 1                        |
| Package weight(Lbs)   | 11.48 lb(US) (5.21 kg)   |
| Returnability         | No                       |
| Country of origin     | DE                       |

### Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 8.66 in (22 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 Carcinogen & Reproductive harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</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.                                                                                                                                          |

### 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)
- (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           |

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