



## Main

|                           |                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product or Component Type | Servo motor                                                                                                              |
| Device short name         | BMH                                                                                                                      |
| Maximum mechanical speed  | 8000 rpm                                                                                                                 |
| Continuous stall torque   | 22.13 Lbf.in (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase<br>22.13 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase |
| Peak stall torque         | 65.50 Lbf.in (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase<br>65.50 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 480 V, three phase |
| Nominal output power      | 700 W LXM32.D12N4 3 A, 400 V, three phase<br>700 W LXM32.D12N4 3 A, 480 V, three phase                                   |
| Nominal torque            | 19.47 Lbf.in (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase<br>19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase |
| Nominal speed             | 3000 rpm LXM32.D12N4 3 A, 400 V, three phase<br>3000 rpm LXM32.D12N4 3 A, 480 V, three phase                             |
| Product compatibility     | LXM32.D12N4 400...480 V three phase                                                                                      |
| Shaft end                 | Smooth shaft                                                                                                             |
| IP Degree of Protection   | IP54 standard                                                                                                            |
| Speed feedback resolution | 131072 points/turn                                                                                                       |
| Holding brake             | Without                                                                                                                  |
| Mounting Support          | International standard flange                                                                                            |
| Electrical Connection     | Straight connectors                                                                                                      |

## Complementary

|                           |                              |
|---------------------------|------------------------------|
| Range Compatibility       | Lexium 32                    |
| [Us] rated supply voltage | 480 V                        |
| Phase                     | Three phase                  |
| Continuous stall current  | 2.94 A                       |
| Continuous power          | 1.51 W                       |
| Maximum current Irms      | 9.7 A LXM32.D12N4            |
| Maximum permanent current | 9.68 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 |
| Motor flange size         | 2.76 in (70 mm)              |
| Number of motor stacks    | 2                            |
| Torque constant           | 0.84 N.m/A 248 °F (120 °C)   |
| Back emf constant         | 54.08 V/krpm 248 °F (120 °C) |
| Number of motor poles     | 10                           |
| Rotor inertia             | 1.13 kg.cm <sup>2</sup>      |
| Stator resistance         | 3.8 Ohm 68 °F (20 °C)        |
| Stator inductance         | 12.2 mH 68 °F (20 °C)        |

|                                       |                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| Stator electrical time constant       | 3.2 ms 68 °F (20 °C)                                                                                     |
| Maximum radial force Fr               | 710 N 1000 rpm<br>560 N 2000 rpm<br>490 N 3000 rpm<br>450 N 4000 rpm<br>410 N 5000 rpm<br>390 N 6000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                                                 |
| Type of cooling                       | Natural convection                                                                                       |
| Length                                | 6.06 in (154 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                            | 5.07 lb(US) (2.3 kg)                                                                                     |

### Ordering and shipping details

|                   |                        |
|-------------------|------------------------|
| Category          | 18282-LEXIUM 32 MOTORS |
| Discount Schedule | PC53                   |
| GTIN              | 3606485198873          |
| 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             | 4.41 lb(US) (2.0 kg) |

### Offer Sustainability

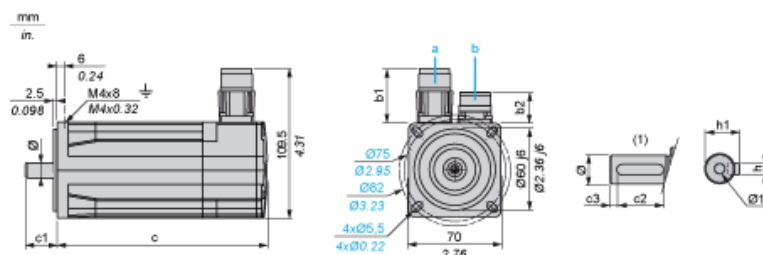
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| RoHS exemption information | <a href="#">Yes</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 | 154               | 193            | 23 | 18 | 2.5 | 4 h9 | 12.5 <sup>+0</sup> <sub>-0.13</sub> | 11 k6 | M4 x 14       |

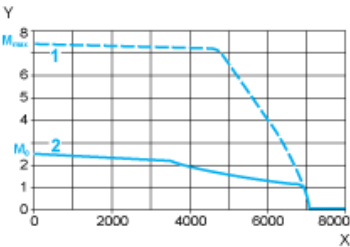
Dimensions in in.

| 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 | 6.06              | 7.59           | 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     |

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

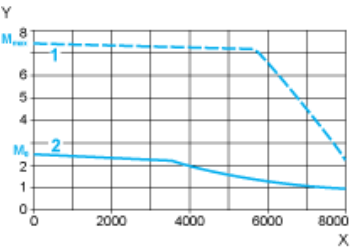


- X Speed in rpm  
Y Torque in Nm  
1 Peak torque  
2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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