# **Product data sheet**

Specification





servo motor BMH, Lexium 32, 8.2Nm, 6000rpm, keyed shaft, without brake, IP54, 128 multiturn encoder

BMH1003T12A2A

Product availability: Stock - Normally stocked in distribution facility

Price\*: 1,870.00 USD

#### Main

| Device short name         | вмн  |
|---------------------------|--|
| Product or Component Type | Servo motor  |
| Maximum mechanical speed  | 6000 rpm   |
| Continuous stall torque   | 72.58 lbf.in (8.2 N.m) LXM32.D30M2 10 A, 230 V, single phase   |
| Peak stall torque         | 201.80 lbf.in (22.8 N.m) LXM32.D30M2 10 A, 230 V, single phase |
| Nominal output power      | 1450 W LXM32.D30M2 10 A, 230 V, single phase                   |
| Nominal torque            | 49.56 lbf.in (5.6 N.m) LXM32.D30M2 10 A, 230 V, single phase   |
| Nominal speed             | 2500 rpm LXM32.D30M2 10 A, 230 V, single phase                 |
| Product compatibility     | LXM32.D30M2 230 V single phase                                 |
| Shaft end                 | Keyed  |
| IP Degree of Protection   | IP54 standard  |
| Speed feedback resolution | 131072 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                      |
| Phase                     | Three phase                |
| Continuous stall current  | 10 A                       |
| Continuous power          | 2.62 W                     |
| Maximum current Irms      | 30 A LXM32.D30M2           |
| Maximum permanent current | 33.85 A                    |
| Second shaft              | Without second shaft end   |
| Shaft diameter            | 0.7 in (19 mm)             |
| Shaft length              | 1.6 in (40 mm)             |
| Key width                 | 1.2 in (30 mm)             |
| Feedback type             | Multiturn SinCos Hiperface |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| Motor flange size                     | 3.9 in (100 mm)   |
|---------------------------------------|---|
| Number of motor stacks                | 3   |
| Torque constant                       | 0.851 N.m/A 248 °F (120 °C)   |
| Back emf constant                     | 54.8 V/krpm 248 °F (120 °C)   |
| Number of motor poles                 | 10  |
| Rotor inertia                         | 9.37 kg.cm²   |
| Stator resistance                     | 0.47 Ohm 68 °F (20 °C)  |
| Stator inductance                     | 3 mH 68 °F (20 °C)  |
| Stator electrical time constant       | 6.4 ms 68 °F (20 °C)  |
| Maximum radial force Fr               | 1050 N 1000 rpm<br>830 N 2000 rpm<br>730 N 3000 rpm<br>660 N 4000 rpm<br>610 N 5000 rpm |
| Maximum axial force Fa                | 0.2 x Fr  |
| Type of cooling                       | Natural convection  |
| Length                                | 7.6 in (192.6 mm)   |
| Centring collar diameter              | 3.7 in (95 mm)  |
| Centring collar depth                 | 0.1 in (3.5 mm)   |
| Number of mounting holes              | 4   |
| Mounting holes diameter               | 0.4 in (9 mm)   |
| Circle diameter of the mounting holes | 4.5 in (115 mm)   |
| Net Weight                            | 14.3 lb(US) (6.5 kg)  |

# Ordering and shipping details

| Category          | 18282-LEXIUM 32 MOTORS |
|-------------------|------------------------|
| Discount Schedule | PC53                   |
| GTIN              | 3606485197852          |
| Returnability     | No                     |
| Country of origin | DE                     |

## **Packing Units**

| Unit Type of Package 1       | PCE                  |
|------------------------------|----------------------|
| Number of Units in Package 1 | 1                    |
| Package 1 Height             | 7.9 in (20.0 cm)     |
| Package 1 Width              | 8.7 in (22.0 cm)     |
| Package 1 Length             | 15.7 in (40.0 cm)    |
| Package 1 Weight             | 15.0 lb(US) (6.8 kg) |

### **Contractual warranty**

Warranty 18 months



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

#### Well-being performance



#### **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 |
|                           |   |