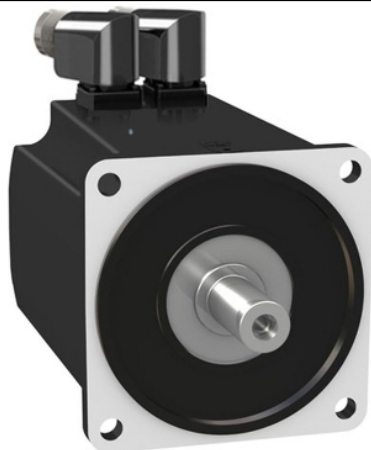


# BMH1403P17A2A

servo motor BMH, Lexium 32, 24Nm, 4000rpm,  
keyed shaft, without brake, IP54, 16 multiturn  
encoder, 3 phases



## Main

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product or Component Type | Servo motor                                                                                                                      |
| Device short name         | BMH                                                                                                                              |
| Maximum mechanical speed  | 4000 rpm                                                                                                                         |
| Continuous stall torque   | 212.42 Lbf.In (24 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>212.42 lbf.in (24 N.m) LXM32.D72N4 24 A, 480 V, three phase       |
| Peak stall torque         | 635.48 Lbf.In (71.8 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>635.48 lbf.in (71.8 N.m) LXM32.D72N4 24 A, 480 V, three phase   |
| Nominal output power      | 4700 W LXM32.D72N4 24 A, 400 V, three phase<br>4700 W LXM32.D72N4 24 A, 480 V, three phase                                       |
| Nominal torque            | 123.20 Lbf.In (13.92 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>123.20 lbf.in (13.92 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| Nominal speed             | 3000 rpm LXM32.D72N4 24 A, 400 V, three phase<br>3000 rpm LXM32.D72N4 24 A, 480 V, three phase                                   |
| Product compatibility     | LXM32.D72N4 400...480 V three phase                                                                                              |
| Shaft end                 | Keyed                                                                                                                            |
| IP Degree of Protection   | IP54 standard                                                                                                                    |
| Speed feedback resolution | 32768 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 | 480 V                       |
| Phase                     | Three phase                 |
| Continuous stall current  | 18 A                        |
| Continuous power          | 4.8 W                       |
| Maximum current Irms      | 62.3 A LXM32.D72N4          |
| Maximum permanent current | 62.3 A                      |
| Second shaft              | Without second shaft end    |
| Shaft diameter            | 0.94 in (24 mm)             |
| Shaft length              | 1.97 in (50 mm)             |
| Key width                 | 1.57 in (40 mm)             |
| Feedback type             | Multiturn SinCos Hiperface  |
| Motor flange size         | 5.51 in (140 mm)            |
| Number of motor stacks    | 3                           |
| Torque constant           | 1.34 N.m/A 248 °F (120 °C)  |
| Back emf constant         | 85.9 V/krpm 248 °F (120 °C) |
| Number of motor poles     | 10                          |
| Rotor inertia             | 47.5 kg.cm <sup>2</sup>     |

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Stator resistance                     | 0.22 Ohm 68 °F (20 °C)                                |
| Stator inductance                     | 3 mH 68 °F (20 °C)                                    |
| Stator electrical time constant       | 13.6 ms 68 °F (20 °C)                                 |
| Maximum radial force Fr               | 2420 N 1000 rpm<br>1920 N 2000 rpm<br>1680 N 3000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                              |
| Type of cooling                       | Natural convection                                    |
| Length                                | 9.13 in (232 mm)                                      |
| Centring collar diameter              | 5.12 in (130 mm)                                      |
| Centring collar depth                 | 0.14 in (3.5 mm)                                      |
| Number of mounting holes              | 4                                                     |
| Mounting holes diameter               | 0.43 in (11 mm)                                       |
| Circle diameter of the mounting holes | 6.50 in (165 mm)                                      |
| Net Weight                            | 35.27 lb(US) (16 kg)                                  |

## Ordering and shipping details

|                   |                        |
|-------------------|------------------------|
| Category          | 18282-LEXIUM 32 MOTORS |
| Discount Schedule | PC53                   |
| GTIN              | 3606485208398          |
| Returnability     | No                     |
| Country of origin | DE                     |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 7.68 in (19.500 cm)        |
| Package 1 Width              | 10.24 in (26.000 cm)       |
| Package 1 Length             | 23.62 in (60.000 cm)       |
| Package 1 Weight             | 39.07 lb(US) (17.724 kg)   |
| Unit Type of Package 2       | P06                        |
| Number of Units in Package 2 | 6                          |
| Package 2 Height             | 29.53 in (75.000 cm)       |
| Package 2 Width              | 31.50 in (80.000 cm)       |
| Package 2 Length             | 23.62 in (60.000 cm)       |
| Package 2 Weight             | 252.09 lb(US) (114.344 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)                                                                                                                                                                                                                                  |
| 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>                                                                                                                                                           |
| Circularity Profile        | No need of specific recycling operations                                                                                                                                                                                                                                                    |
| 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 |
|----------|-----------|