

# BMH0703P06A2A

servo motor BMH, Lexium 32, 3.4Nm,  
8000rpm, untapped shaft, without brake, IP54,  
16bit encoder, 3 phases



## Main

|                           |  |
|---------------------------|--|
| Device short name         | BMH  |
| Product or Component Type | Servo motor  |
| Maximum mechanical speed  | 8000 rpm   |
| Continuous stall torque   | 30.09 Lbf.In (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase<br>30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase |
| Peak stall torque         | 90.3 Lbf.In (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase<br>90.3 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase |
| Nominal output power      | 1300 W LXM32.D18N4 6 A, 400 V, three phase<br>1300 W LXM32.D18N4 6 A, 480 V, three phase                                 |
| Nominal torque            | 21.2 Lbf.In (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase<br>21.2 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase   |
| Nominal speed             | 5000 rpm LXM32.D18N4 6 A, 400 V, three phase<br>5000 rpm LXM32.D18N4 6 A, 480 V, three phase                             |
| Product compatibility     | LXM32.D18N4 400...480 V three phase  |
| Shaft end                 | Smooth shaft   |
| IP Degree of Protection   | IP54 standard  |
| Speed feedback resolution | 32768 points/turn  |
| 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  | 3.91 A                       |
| Continuous power          | 1.68 W                       |
| Maximum current Irms      | 12.6 A LXM32.D18N4           |
| Maximum permanent current | 12.57 A                      |
| Second shaft              | Without second shaft end     |
| Shaft diameter            | 0.6 in (14 mm)               |
| Shaft length              | 1.2 in (30 mm)               |
| Feedback type             | Single turn SinCos Hiperface |
| Motor flange size         | 2.8 in (70 mm)               |
| Number of motor stacks    | 3                            |
| Torque constant           | 0.87 N.m/A 248 °F (120 °C)   |
| Back emf constant         | 55.8 V/krpm 248 °F (120 °C)  |
| Number of motor poles     | 10                           |
| Rotor inertia             | 1.67 kg.cm <sup>2</sup>      |
| Stator resistance         | 2.65 Ohm 68 °F (20 °C)       |

|                                       |  |
|---------------------------------------|--|
| Stator inductance                     | 8.6 mH 68 °F (20 °C)   |
| Stator electrical time constant       | 3.2 ms 68 °F (20 °C)   |
| Maximum radial force Fr               | 730 N 1000 rpm<br>580 N 2000 rpm<br>510 N 3000 rpm<br>460 N 4000 rpm<br>430 N 5000 rpm<br>400 N 6000 rpm |
| Maximum axial force Fa                | 0.2 x Fr   |
| Type of cooling                       | Natural convection   |
| Length                                | 7.3 in (186 mm)  |
| Centring collar diameter              | 2.4 in (60 mm)   |
| Centring collar depth                 | 0.10 in (2.5 mm)   |
| Number of mounting holes              | 4  |
| Mounting holes diameter               | 0.2 in (5.5 mm)  |
| Circle diameter of the mounting holes | 3.2 in (82 mm)   |
| Net Weight                            | 6.6 lb(US) (3 kg)  |





### Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC5318282  |
| Discount Schedule | PC53          |
| GTIN              | 3606485199436 |
| Returnability     | No            |
| Country of origin | DE            |

### Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 4.606 in (11.700 cm)    |
| Package 1 Width              | 7.559 in (19.200 cm)    |
| Package 1 Length             | 15.630 in (39.700 cm)   |
| Package 1 Weight             | 7.954 lb(US) (3.608 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   |
| RoHS exemption information |  <a href="#">Yes</a>   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</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.  |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|