

# BSH1004T31A2A

AC servo motor BSH, Lexium 15, 8.18N.m, 3500rpm, keyed shaft, without brake, IP65



## Main

|                           |  |
|---------------------------|--|
| Device short name         | BSH  |
| Product or Component Type | Servo motor  |
| Maximum mechanical speed  | 6000 rpm   |
| Continuous stall torque   | 82.40 Lbf.In (9.31 N.m) LXM15MD40N4, 230 V, three phase<br>72.40 lbf.in (8.18 N.m) LXM15LD28M3, 230 V, three phase   |
| Peak stall torque         | 139.0 Lbf.In (15.7 N.m) LXM15LD28M3, 230 V, three phase<br>186.22 lbf.in (21.04 N.m) LXM15MD40N4, 230 V, three phase |
| Nominal output power      | 2500 W LXM15LD28M3, 230 V, three phase<br>2500 W LXM15MD40N4, 230 V, three phase                                     |
| Nominal torque            | 62.0 Lbf.In (7 N.m) LXM15LD28M3, 230 V, three phase<br>62.0 lbf.in (7 N.m) LXM15MD40N4, 230 V, three phase           |
| Nominal speed             | 3500 rpm LXM15LD28M3, 230 V, three phase<br>3500 rpm LXM15MD40N4, 230 V, three phase                                 |
| Product compatibility     | LXM15LD28M3 230 V three phase<br>LXM15MD40N4 230 V three phase   |
| Shaft end                 | Keyed  |
| IP Degree of Protection   | IP65 standard<br>IP67 with IP67 kit  |
| Speed feedback resolution | 131072 points/turn   |
| Holding brake             | Without  |
| Mounting Support          | International standard flange  |
| Electrical Connection     | Rotatable right-angled connectors  |

## Complementary

|                           |  |
|---------------------------|--|
| Range Compatibility       | Lexium 15  |
| Supply voltage max        | 480 V  |
| Phase                     | Three phase  |
| Continuous stall current  | 12.7 A   |
| Maximum continuous power  | 3.64 W   |
| Maximum current Irms      | 34.8 A LXM15LD28M3<br>61 A LXM15MD40N4   |
| Maximum permanent current | 66.3 A   |
| Second shaft              | Without second shaft end   |
| Shaft diameter            | 0.9 in (24 mm)   |
| Shaft length              | 2.0 in (50 mm)   |
| Key width                 | 1.6 in (40 mm)   |
| Feedback type             | Single turn SinCos Hiperface   |
| Motor flange size         | 3.9 in (100 mm)  |
| Number of motor stacks    | 4  |
| Torque constant           | 1.62 N.M/A 248.0000000000 °F (120 °C)<br>0.86 N.m/A 248.0000000000 °F (120 °C) |

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|                                       |   |
|---------------------------------------|---|
| Back emf constant                     | 103 V/Krpm 248.0000000000 °F (120 °C)<br>50 V/krpm 248.0000000000 °F (120 °C) |
| Number of motor poles                 | 8   |
| Rotor inertia                         | 4.22 kg.cm <sup>2</sup>   |
| Stator resistance                     | 1.81 Ohm 68.0000000000 °F (20 °C)   |
| Stator inductance                     | 13 MH 68.0000000000 °F (20 °C)<br>2.9 mH 68.0000000000 °F (20 °C)             |
| Stator electrical time constant       | 6.44 Ms 68.0000000000 °F (20 °C)<br>7.18 ms 68.0000000000 °F (20 °C)          |
| Maximum radial force Fr               | 1070 N 1000 rpm<br>740 N 3000 rpm<br>850 N 2000 rpm                           |
| Maximum axial force Fa                | 0.2 x Fr  |
| Type of cooling                       | Natural convection  |
| Length                                | 10.9 in (276.5 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                            | 20.3 lb(US) (9.2 kg)  |




### Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC5318282  |
| Discount Schedule | PC53          |
| GTIN              | 3389118199392 |
| Returnability     | No            |
| Country of origin | DE            |

### Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 7.6 in (19.2 cm)       |
| Package 1 Width              | 6.9 in (17.5 cm)       |
| Package 1 Length             | 21.9 in (55.7 cm)      |
| Package 1 Weight             | 22.05 lb(US) (10.0 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> |
| 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 |  Yes   |
| 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 |
|----------|-----------|