

# Product data sheet

Specifications



servo motor BMH - 62.5 Nm - 3800 rpm - keyed shaft - without brake - IP65/IP67

BMH2052P32A2A

## Main

|                           |                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------|
| Product or component type | Servo motor                                                                                                  |
| Device short name         | BMH                                                                                                          |
| Maximum mechanical speed  | 3800 rpm                                                                                                     |
| Continuous stall torque   | 62.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase<br>62.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase |
| Peak stall torque         | 170 N.m for LXM32.D72N4 at 24 A, 400 V, three phase<br>170 N.m for LXM32.D72N4 at 24 A, 480 V, three phase   |
| Nominal output power      | 6500 W for LXM32.D72N4 at 24 A, 400 V, three phase<br>6500 W for LXM32.D72N4 at 24 A, 480 V, three phase     |
| Nominal torque            | 41.6 N.m for LXM32.D72N4 at 24 A, 400 V, three phase<br>41.6 N.m for LXM32.D72N4 at 24 A, 480 V, three phase |
| Nominal speed             | 1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase<br>1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase |
| Product compatibility     | LXM32.D72N4 at 400...480 V three phase                                                                       |
| Shaft end                 | Keyed                                                                                                        |
| IP degree of protection   | IP65 standard<br>IP67 with IP67 kit                                                                          |
| 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 | 480 V                    |
| Network number of phases  | Three phase              |
| Continuous stall current  | 24.2 A                   |
| Continuous power          | 7.85 W                   |
| Maximum current Irms      | 72 A for LXM32.D72N4     |
| Maximum permanent current | 96.8 A                   |
| Second shaft              | Without second shaft end |
| Shaft diameter            | 38 mm                    |

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| Shaft length                          | 80 mm                                                          |
| Key width                             | 70 mm                                                          |
| Feedback type                         | Multiturn SinCos Hiperface                                     |
| Motor flange size                     | 205 mm                                                         |
| Number of motor stacks                | 2                                                              |
| Torque constant                       | 2.6 N.m/A at 120 °C                                            |
| Back emf constant                     | 161 V/krpm at 120 °C                                           |
| Number of motor poles                 | 10                                                             |
| Rotor inertia                         | 129 kg.cm²                                                     |
| Stator resistance                     | 0.3 Ohm at 20 °C                                               |
| Stator inductance                     | 5.6 mH at 20 °C                                                |
| Stator electrical time constant       | 18.7 ms at 20 °C                                               |
| Maximum radial force Fr               | 4200 N at 1000 rpm<br>3330 N at 2000 rpm<br>2910 N at 3000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                       |
| Type of cooling                       | Natural convection                                             |
| Length                                | 405 mm                                                         |
| Centring collar diameter              | 180 mm                                                         |
| Centring collar depth                 | 4 mm                                                           |
| Number of mounting holes              | 4                                                              |
| Mounting holes diameter               | 14 mm                                                          |
| Circle diameter of the mounting holes | 215 mm                                                         |
| Net weight                            | 44 kg                                                          |

### Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 54.0 kg |
| Package 1 Height             | 36 cm   |
| Package 1 width              | 31 cm   |
| Package 1 Length             | 73 cm   |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| 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>                                                                               |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free                   | Yes                                                                                                                         |

|                           |                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Contractual warranty

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