# Product data sheet

Specifications

## servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, with brake, IP65, IP67, 128 multiturn encoder, straight

BMH2051P22F1A

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price*: 8,430.00 USD**

## Main

| | |
|---|---|
| **Product Or Component Type** | Servo motor |
| **Device Short Name** | BMH |
| **Maximum Mechanical Speed** | 3800 rpm |
| **Continuous Stall Torque** | 304.47 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>304.47 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Peak Stall Torque** | 915.17 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>915.17 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal Output Power** | 5400 W LXM32.D72N4 24 A, 400 V, three phase<br>5400 W LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal Torque** | 228.35 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>228.35 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal Speed** | 2000 rpm LXM32.D72N4 24 A, 400 V, three phase<br>2000 rpm LXM32.D72N4 24 A, 480 V, three phase |
| **Product Compatibility** | LXM32.D72N4 400...480 V three phase |
| **Shaft End** | Smooth shaft |
| **Ip Degree Of Protection** | IP65 standard<br>IP67 with IP67 kit |
| **Speed Feedback Resolution** | 131072 points/turn x 4096 turns |
| **Holding Brake** | With |
| **Mounting Support** | International standard flange |
| **Electrical Connection** | Straight connectors |

## Complementary

| | |
|---|---|
| **Range Compatibility** | Lexium 32 |
| **[Us] Rated Supply Voltage** | 480 V |
| **Phase** | Three phase |
| **Continuous Stall Current** | 21.5 A |
| **Continuous Power** | 6.8 W |
| **Maximum Current Irms** | 72 A LXM32.D72N4 |
| **Maximum Permanent Current** | 78.1 A |
| **Second Shaft** | Without second shaft end |
| **Shaft Diameter** | 1.50 in (38 mm) |

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Shaft Length** | 3.15 in (80 mm) |
| **Feedback Type** | Multiturn SinCos Hiperface |
| **Holding Torque** | 708.06 lbf.in (80 N.m) holding brake |
| **Motor Flange Size** | 8.07 in (205 mm) |
| **Number Of Motor Stacks** | 1 |
| **Back Emf Constant** | 104 V/krpm 248 °F (120 °C) |
| **Number Of Motor Poles** | 10 |
| **Rotor Inertia** | 87.4 kg.cm² |
| **Stator Resistance** | 0.3 Ohm 68 °F (20 °C) |
| **Stator Inductance** | 5.9 mH 68 °F (20 °C) |
| **Stator Electrical Time Constant** | 19.7 ms 68 °F (20 °C) |
| **Maximum Radial Force Fr** | 3730 N 1000 rpm<br>2960 N 2000 rpm<br>2580 N 3000 rpm |
| **Maximum Axial Force Fa** | 0.2 x Fr |
| **Brake Pull-In Power** | 40 W |
| **Type Of Cooling** | Natural convection |
| **Length** | 14.59 in (370.5 mm) |
| **Centring Collar Diameter** | 7.09 in (180 mm) |
| **Centring Collar Depth** | 0.16 in (4 mm) |
| **Number Of Mounting Holes** | 4 |
| **Mounting Holes Diameter** | 0.55 in (14 mm) |
| **Circle Diameter Of The Mounting Holes** | 8.46 in (215 mm) |
| **Net Weight** | 83.56 lb(US) (37.9 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | US1PC5318282 |
| **Discount Schedule** | PC53 |
| **Gtin** | 3606485202624 |
| **Returnability** | No |
| **Country Of Origin** | DE |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 14.17 in (36.0 cm) |
| **Package 1 Width** | 12.20 in (31.0 cm) |
| **Package 1 Length** | 22.83 in (58.0 cm) |
| **Package 1 Weight** | 94.80 lb(US) (43.0 kg) |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

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|---|---|
| **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 |