Product data sheet

Specifications





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, without brake, IP54, 128bit encoder

BMH2051P01A2A

① Discontinued

(!) Discontinued on: Jun 30, 2023

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

Main

| Product Or Component Type | Servo motor |
|---------------------------|---|
| Device Short Name | вмн |
| Maximum Mechanical Speed | 3800 rpm |
| Continuous Stall Torque | 304.47 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 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 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 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 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 2000 rpm LXM32.D72N4 24 A, 480 V, three phase |
| Product Compatibility | LXM32.D72N4 400480 V three phase |
| Shaft End | Smooth shaft |
| Ip Degree Of Protection | IP54 standard |
| Speed Feedback Resolution | 131072 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 | 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.

| Shaft Length | 3.15 in (80 mm) | |
|---------------------------------------|---|--|
| Feedback Type | Single turn SinCos Hiperface | |
| 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 | 71.4 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 2960 N 2000 rpm 2580 N 3000 rpm | |
| Maximum Axial Force Fa | 0.2 x Fr | |
| Type Of Cooling | Natural convection | |
| Length | 12.64 in (321 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 | 72.75 lb(US) (33 kg) | |

Ordering and shipping details

| Category | US1PC5318282 |
|-------------------|---------------|
| Discount Schedule | PC53 |
| Gtin | 3606485201689 |
| Returnability | No |
| Country Of Origin | DE |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|------------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 15.75 in (40.0 cm) |
| Package 1 Width | 11.81 in (30.0 cm) |
| Package 1 Length | 31.30 in (79.5 cm) |
| Package 1 Weight | 85.98 lb(US) (39.0 kg) |

Contractual warranty

Warranty 18 months



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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

| 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 |