Product data sheet

Specifications





() Discontinued

servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, keyed shaft, with brake, IP54, 128 multiturn encoder

BMH2051P12F2A

() Discontinued on: Oct 9, 2023

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

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 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 | Keyed | |
| Ip Degree Of Protection | IP54 standard | |
| Speed Feedback Resolution | 131072 points/turn x 4096 turns | |
| Holding Brake | With | |
| 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) | |
|--|---|--|
| Key Width | 2.76 in (70 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.cm ² | |
| 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 | |
| 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

| Category | US1PC5318282 | |
|-------------------|---------------|--|
| Discount Schedule | PC53 | |
| Gtin | 3606485202693 | |
| 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 Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

| 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 |