

① Discontinued

servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder, straight

BMH1402P07F1A

(!) Discontinued on: Oct 9, 2023

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

Main

| Device short name | вмн | |
|---------------------------|---|--|
| Product or Component Type | Servo motor | |
| Maximum mechanical speed | 4000 rpm | |
| Continuous stall torque | 163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 480 V, three phase | |
| Peak stall torque | 445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 480 V, three phase | |
| Nominal output power | 3500 W LXM32.D72N4 24 A, 400 V, three phase 3500 W LXM32.D72N4 24 A, 480 V, three phase | |
| Nominal torque | 108.0 lbf.in (12.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 108.0 lbf.in (12.2 N.m) LXM32.D72N4 24 A, 480 V, three phase | |
| Nominal speed | 3000 rpm LXM32.D72N4 24 A, 400 V, three phase 3000 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 | 32768 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 | 16.83 A | |
| Continuous power | 4.44 W | |
| Maximum current Irms | 57.4 A LXM32.D72N4 | |
| Maximum permanent current | 57.4 A | |
| Second shaft | Without second shaft end | |
| Shaft diameter | 0.9 in (24 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 | 2.0 in (50 mm) | |
|---------------------------------------|--|--|
| Feedback type | Multiturn SinCos Hiperface | |
| Holding torque | 159.3 lbf.in (18 N.m) holding brake | |
| Motor flange size | 5.5 in (140 mm) | |
| Number of motor stacks | 2 | |
| Torque constant | 1.1 N.m/A 248 °F (120 °C) | |
| Back emf constant | 70.7 V/krpm 248 °F (120 °C) | |
| Number of motor poles | 10 | |
| Rotor inertia | 33.5 kg.cm² | |
| Stator resistance | 0.23 Ohm 68 °F (20 °C) | |
| Stator inductance | 3 mH 68 °F (20 °C) | |
| Stator electrical time constant | 13 ms 68 °F (20 °C) | |
| Maximum radial force Fr | 2240 N 1000 rpm 1780 N 2000 rpm | |
| | 1550 N 3000 rpm | |
| Maximum axial force Fa | 0.2 x Fr | |
| Brake pull-in power | 18 W | |
| type of cooling | Natural convection | |
| Length | 8.9 in (227 mm) | |
| Centring collar diameter | 5.1 in (130 mm) | |
| centring collar depth | 0.1 in (3.5 mm) | |
| Number of mounting holes | 4 | |
| Mounting holes diameter | 0.4 in (11 mm) | |
| Circle diameter of the mounting holes | 6.5 in (165 mm) | |
| Product Weight | 31.5 lb(US) (14.3 kg) | |
| Sizing reference | BMH1402P | |
| Network number of phases | 3 | |
| Accuracy error [angular] | 4.8 ° | |
| Coefficient 1_1 | -0.0015580971044942 N.m/rpm | |
| Coefficient 1_2 | -0.0000000740962495854577 N.m/rpm² | |
| Coefficient 1_3 | 0.0000000000968956725377379 N.m/rpm3 | |
| Coefficient 1_4 | -0.00000000000052956438523721 N.m/rpm4 | |
| Coefficient 1_5 | 0.000000000000000122533438374952 N.m/rpm5 | |
| Coefficient 1_6 | -0.0000000000000000000010211119865247 N.m/rpm6 | |
| Saturation coefficient 1 | 0.00000000000000089283669812 | |
| Saturation coefficient 2 | -0.008682328907048 | |
| Saturation coefficient 3 | -0.00000000000000003881898687 | |
| Coefficient 2_1 | 0.000210624396135302 N.m/rpm | |
| Temperature copper hot | 275 °F (135 °C) | |
| Temperature magnet hot | 212 °F (100 °C) | |
| Temperature magnet rt | 68 °F (20 °C) | |
| | | |

Ordering and shipping details

| Category | US1PC5318282 | |
|-------------------|---------------|--|
| Discount Schedule | PC53 | |
| GTIN | 3606485207865 | |
| Returnability | No | |
| Country of origin | DE | |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|-------------------------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 7.87 in (20.0 cm) | |
| Package 1 Width | 10.43 in (26.5 cm) | |
| Package 1 Length | 23.62 in (60.0 cm) | |
| Package 1 Weight | 33.03 lb(US) (14.98 kg) | |

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

| Materials and Substances | |
|---------------------------|---|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| 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 |
| PVC free | Yes |

Use Again

| ○ Repack and remanufacture | | |
|----------------------------|--|--|
| 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. | |