

servo motor BMH, Lexium 32, 24Nm, 4000rpm, untapped shaft, with brake, IP54, 128 multiturn encoder, 3 phases

BMH1403P02F2A

Main

| Device short name | ВМН | |
|---------------------------|--|--|
| Product or component type | Servo motor | |
| Maximum mechanical speed | 4000 rpm | |
| Continuous stall torque | 24 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 24 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Peak stall torque | 71.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 71.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal output power | 4700 W for LXM32.D72N4 at 24 A, 400 V, three phase 4700 W for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal torque | 13.92 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 13.92 N.m for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Nominal speed | 3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase | |
| Product compatibility | LXM32.D72N4 at 400480 V three phase | |
| Shaft end | Smooth shaft | |
| 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

| J | |
|---------------------------|----------------------------|
| Range compatibility | Lexium 32 |
| [Us] rated supply voltage | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 18 A |
| Continuous power | 4.8 W |
| Maximum current Irms | 57.66 A for LXM32.D72N4 |
| Maximum permanent current | 62.3 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 24 mm |
| Shaft length | 50 mm |
| Feedback type | Multiturn SinCos Hiperface |
| Holding torque | 23 N.m holding brake |

| Motor flange size | 140 mm | |
|---------------------------------------|--|--|
| Number of motor stacks | 3 | |
| Torque constant | 1.3 N.m/A at 120 °C | |
| Back emf constant | 85.9 V/krpm at 120 °C | |
| Number of motor poles | 5.0 | |
| Rotor inertia | 50.27 kg.cm² | |
| Stator resistance | 0.22 Ohm at 20 °C | |
| Stator inductance | 2.165 mH at 20 °C | |
| Stator electrical time constant | 13.6 ms at 20 °C | |
| Maximum radial force Fr | 2420 N at 1000 rpm 1920 N at 2000 rpm 1680 N at 3000 rpm | |
| Maximum axial force Fa | 0.2 x Fr | |
| Brake pull-in power | 19 W | |
| type of cooling | Natural convection | |
| Length | 267 mm | |
| Centring collar diameter | 130 mm | |
| centring collar depth | 3.5 mm | |
| Number of mounting holes | 4 | |
| Mounting holes diameter | 11 mm | |
| Circle diameter of the mounting holes | 165 mm | |
| Net weight | 18.5 kg | |
| Sizing reference | BMH1403P | |
| Network number of phases | 3 | |
| Accuracy error [angular] | 1.4 ° | |
| Temperature copper hot | 135 °C | |
| Temperature magnet hot | 100 °C | |
| Temperature magnet rt | 20 °C | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 26.0 cm |
| Package 1 Width | 20.0 cm |
| Package 1 Length | 60.0 cm |
| Package 1 Weight | 18.83 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 | |
|----------------------------------|-------------------------------|
| Total lifecycle Carbon footprint | 5196 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

| Packaging made with recycled cardboard | Yes |
|--|--|
| Packaging without single use plastic | No |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number | A7df881f-135f-4256-b8c2-ea55d4c9a151 |
| REACh Regulation | REACh Declaration |
| PVC free | Yes |

Use Again

| ○ Repack and remanufacture | |
|---------------------------------|--|
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |