

servo motor BMH - 65 Nm - 3500 rpm - untapped shaft - with brake - IP65/IP67

BMH1903P22F2A

EAN Code: 3606485266213

Main

| Device short name | ВМН | |
|---------------------------|---|--|
| Product or component type | Servo motor | |
| Maximum mechanical speed | 3500 rpm | |
| Continuous stall torque | 43.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 43.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 57.6 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 57.6 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 65 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 65 N.m for LXM32MC10N4 at 40 A, 480 V, three phase | |
| Peak stall torque | 122.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 122.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 141.3 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 141.3 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 162.7 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 162.7 N.m for LXM32MC10N4 at 40 A, 480 V, three phase | |
| Nominal output power | 5700 W for LXM32.D72N4 at 24 A, 400 V, three phase 5700 W for LXM32.D72N4 at 24 A, 480 V, three phase 7330 W for LXM32MD85N4 at 32 A, 400 V, three phase 7330 W for LXM32MD85N4 at 32 A, 480 V, three phase 7750 W for LXM32MC10N4 at 40 A, 400 V, three phase 7750 W for LXM32MC10N4 at 40 A, 480 V, three phase | |
| Nominal torque | 36 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 36 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 35 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 35 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 37 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 37 N.m for LXM32MC10N4 at 40 A, 480 V, three phase | |
| Nominal speed | 1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase 2000 rpm for LXM32MD85N4 at 32 A, 400 V, three phase 2000 rpm for LXM32MD85N4 at 32 A, 480 V, three phase | |
| Product compatibility | LXM32.D72N4 at 400480 V three phase | |
| Shaft end | Smooth shaft | |
| IP degree of protection | IP65 standard IP67 with IP67 kit | |
| 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 | |
|---------------------------------------|----------------------------|--|
| Network number of phases | Three phase | |
| Continuous stall current | 36.1 A | |
| Continuous power | 7.95 W | |
| Maximum current Irms | 124.26 A for LXM32.D72N4 | |
| Maximum permanent current | 124.5 A | |
| Second shaft | Without second shaft end | |
| Shaft diameter | 38 mm | |
| Shaft length | 80 mm | |
| Feedback type | Multiturn SinCos Hiperface | |
| Holding torque | 80 N.m holding brake | |
| Motor flange size | 190 mm | |
| Number of motor stacks | 3 | |
| Torque constant | 1.8 N.m/A at 120 °C | |
| Back emf constant | 129.2 V/krpm at 120 °C | |
| Number of motor poles | 5.0 | |
| Rotor inertia | 208.8 kg.cm² | |
| Stator resistance | 0.13 Ohm at 20 °C | |
| Stator inductance | 1.81 mH at 20 °C | |
| Stator electrical time constant | 27.8 ms at 20 °C | |
| Maximum radial force Fr | 4500 N at 1000 rpm | |
| Maximum axial force Fa | 0.2 x Fr | |
| Brake pull-in power | 40 W | |
| type of cooling | Natural convection | |
| Length | 370 mm | |
| Centring collar diameter | 180 mm | |
| centring collar depth | 4 mm | |
| Number of mounting holes | 4 | |
| Mounting holes diameter | 14 mm | |
| Circle diameter of the mounting holes | 215 mm | |
| Net weight | 44.5 kg | |
| Sizing reference | BMH1903P | |
| 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 | 30.0 cm | |
|------------------|---------|--|
| Package 1 Width | 40.0 cm | |
| Package 1 Length | 79.5 cm | |
| Package 1 Weight | 31.5 ka | |

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 | |
|---|-------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 8478 |
| 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 | | |
|----------------------------|---|--|
| Circularity Profile | No need of specific recycling operations | |
| Take-back | No | |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins | |