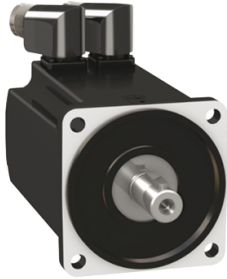


Product datasheet

Specifications



MH3 servomotor, 100mm, 1 stack, keyed Shaft, SinCos Multiturn 16, Brake, angular, IP65

MH31001P17F2200

⚠ Discontinued on: 9 Feb 2023

⚠ Discontinued

Main

| | |
|---------------------------|-------------|
| Range compatibility | PacDrive 3 |
| Device short name | MH3 |
| Product or component type | Servo motor |

Complementary

| | |
|---------------------------|--|
| Maximum mechanical speed | 6000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 3.15 A |
| Continuous stall torque | 3.4 N.m, 115...480 V, three phase |
| Continuous power | 1520 W |
| Peak stall torque | 10.8 N.m, 115...480 V, three phase |
| Nominal output power | 0.35 W, 115 V 0.67 W, 230 V 1.26 W, 400 V 1.52 W, 480 V |
| Nominal torque | 3.3 N.m for LXM52 at 3.07 mA, 115 V, three phase 3.2 N.m for LXM52 at 2.99 mA, 230 V, single phase 3 N.m for LXM52 at 2.83 mA, 400 V, three phase 2.9 N.m for LXM52 at 2.75 mA, 480 V, three phase 3.3 N.m for LXM62 at 3.07 mA, 115 V, single phase 3.2 N.m for LXM62 at 2.99 mA, 230 V, single phase 3 N.m for LXM62 at 2.83 mA, 400 V, three phase 2.9 N.m for LXM62 at 2.75 mA, 480 V, three phase |
| Nominal speed | 1000 rpm for LXM52 at 3.07 mA, 115 V, single phase 2000 rpm for LXM52 at 2.99 mA, 230 V, single phase 4000 rpm for LXM52 at 2.83 mA, 400 V, three phase 5000 rpm for LXM52 at 2.75 mA, 480 V, three phase 1000 rpm for LXM62 at 3.07 mA, 115 V, single phase 2000 rpm for LXM62 at 2.99 mA, 230 V, single phase 4000 rpm for LXM62 at 2.83 mA, 400 V, three phase 5000 rpm for LXM62 at 2.75 mA, 480 V, three phase |
| Maximum current Irms | 10.68 A |
| Shaft end | Parallel key |
| Second shaft | Without second shaft end |
| Shaft diameter | 19 mm |
| Shaft length | 40 mm |
| Key width | 6 mm |
| IP degree of protection | IP65 standard |

| | |
|--|---|
| Encoder type | Multiturn SinCos Hiperface |
| Speed feedback resolution | 16 periods |
| Holding brake | With |
| Holding torque | 5.5 N.m |
| Mounting support | International standard flange |
| Motor flange size | 100 mm |
| Electrical connection | Rotatable right-angled connectors |
| Torque constant | 1.09 N.m/A at 120 °C |
| Back emf constant | 70.3 V/krpm |
| Number of motor poles | 10 |
| Rotor inertia | 3.68 kg.cm ² |
| Stator resistance | 4.12 Ohm |
| Stator inductance | 14.9 mH |
| Stator electrical time constant | 4.5 ms |
| Maximum radial force Fr | 900 N at 1000 rpm 720 N at 2000 rpm 630 N at 3000 rpm 570 N at 4000 rpm 530 N at 5000 rpm |
| Brake pull-in power | 12 W |
| Type of cooling | Natural convection |
| Length | 170.3 mm |
| Centring collar diameter | 95 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9 mm |
| Circle diameter of the mounting holes | 115 mm |
| Product weight | 4.8 kg |
| Sizing reference | MH31001P |
| Temperature copper hot | 135 °C |

Packing Units

| | |
|-------------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.6 cm |
| Package 1 Width | 22.1 cm |
| Package 1 Length | 44.6 cm |
| Package 1 Weight | 4.04 kg |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



Environmental Data

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 >](#)

Use Better

| Materials and Substances | |
|--|--|
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant By Exemption |
| PVC free | Yes |

Use Longer

| Lifetime extension | |
|---------------------------|----|
| Repair | No |

Use Again

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