



## Main

|                           |                 |
|---------------------------|-----------------|
| Range compatibility       | PacDrive 3      |
| Device short name         | MH3             |
| Product or component type | AC servo motors |

## 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<br>0.67 W, 230 V<br>1.26 W, 400 V<br>1.52 W, 480 V                                                                                                                                                                                                                                                                                                                                         |
| Nominal torque            | 3.3 N.M for LXM52 at 3.07 mA, 115 V, 1 phase<br>3.2 N.M for LXM52 at 2.99 mA, 230 V, 1 phase<br>3 N.M for LXM52 at 2.83 mA, 400 V, 3 phases<br>2.9 N.M for LXM52 at 2.75 mA, 480 V, 3 phases<br>3.3 N.M for LXM62 at 3.07 mA, 115 V, 1 phase<br>3.2 N.M for LXM62 at 2.99 mA, 230 V, 1 phase<br>3 N.M for LXM62 at 2.83 mA, 400 V, 3 phases<br>2.9 N.m for LXM62 at 2.75 mA, 480 V, 3 phases             |
| Nominal speed             | 1000 rpm for LXM52 at 3.07 mA, 115 V, 1 phase<br>2000 rpm for LXM52 at 2.99 mA, 230 V, 1 phase<br>4000 rpm for LXM52 at 2.83 mA, 400 V, 3 phases<br>5000 rpm for LXM52 at 2.75 mA, 480 V, 3 phases<br>1000 rpm for LXM62 at 3.07 mA, 115 V, 1 phase<br>2000 rpm for LXM62 at 2.99 mA, 230 V, 1 phase<br>4000 rpm for LXM62 at 2.83 mA, 400 V, 3 phases<br>5000 rpm for LXM62 at 2.75 mA, 480 V, 3 phases |
| Maximum current Irms      | 10.68 A                                                                                                                                                                                                                                                                                                                                                                                                  |
| Shaft end                 | Smooth shaft                                                                                                                                                                                                                                                                                                                                                                                             |
| Second shaft              | Without second shaft end                                                                                                                                                                                                                                                                                                                                                                                 |
| Shaft diameter            | 19 mm                                                                                                                                                                                                                                                                                                                                                                                                    |
| Shaft length              | 40 mm                                                                                                                                                                                                                                                                                                                                                                                                    |
| IP degree of protection   | IP65 standard                                                                                                                                                                                                                                                                                                                                                                                            |
| Encoder type              | Multiturn SinCos Hiperface                                                                                                                                                                                                                                                                                                                                                                               |
| Speed feedback resolution | 16 periods                                                                                                                                                                                                                                                                                                                                                                                               |
| Holding brake             | Without                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                         | 3.19 kg.cm <sup>2</sup>                                                                               |
| 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<br>720 N at 2000 rpm<br>630 N at 3000 rpm<br>570 N at 4000 rpm<br>530 N at 5000 rpm |
| Type of cooling                       | Natural convection                                                                                    |
| Length                                | 128.6 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                                                                                                |
| Net weight                            | 3.34 kg                                                                                               |

### Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 21.0 cm |
| Package 1 Width              | 18.0 cm |
| Package 1 Length             | 35.6 cm |
| Package 1 Weight             | 4.04 kg |

### Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                        |
| Mercury free               | Yes                                                                                                                               |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| 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       |
| PVC free                   | Yes                                                                                                                               |