



## Main

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

## Complementary

|                           |                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 8000 rpm                                                                                                                                                                                                                                                                                                                                                                                               |
| [Us] rated supply voltage | 115...480 V                                                                                                                                                                                                                                                                                                                                                                                            |
| Network number of phases  | Three phase                                                                                                                                                                                                                                                                                                                                                                                            |
| Continuous stall current  | 1.78 A                                                                                                                                                                                                                                                                                                                                                                                                 |
| Continuous stall torque   | 1.4 N.m, 115...480 V, three phase                                                                                                                                                                                                                                                                                                                                                                      |
| Continuous power          | 930 W                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak stall torque         | 4.2 N.m, 115...480 V, three phase                                                                                                                                                                                                                                                                                                                                                                      |
| Nominal output power      | 0.18 W, 115 V<br>0.42 W, 230 V<br>0.75 W, 400 V<br>0.93 W, 480 V                                                                                                                                                                                                                                                                                                                                       |
| Nominal torque            | 1.38 N.M for LXM52 at 1.75 mA, 115 V, 1 phase<br>1.34 N.M for LXM52 at 1.75 mA, 230 V, 1 phase<br>1.3 N.M for LXM52 at 1.72 mA, 400 V, 3 phases<br>1.27 N.M for LXM52 at 1.7 mA, 480 V, 3 phases<br>1.38 N.M for LXM62 at 1.75 mA, 115 V, 1 phase<br>1.34 N.M for LXM62 at 1.75 mA, 230 V, 1 phase<br>1.3 N.M for LXM62 at 1.72 mA, 400 V, 3 phases<br>1.27 N.m for LXM62 at 1.7 mA, 480 V, 3 phases   |
| Nominal speed             | 1250 rpm for LXM52 at 1.75 mA, 115 V, 1 phase<br>3000 rpm for LXM52 at 1.75 mA, 230 V, 1 phase<br>5500 rpm for LXM52 at 1.72 mA, 400 V, 3 phases<br>7000 rpm for LXM52 at 1.7 mA, 480 V, 3 phases<br>1250 rpm for LXM62 at 1.75 mA, 115 V, 1 phase<br>3000 rpm for LXM62 at 1.75 mA, 230 V, 1 phase<br>5500 rpm for LXM62 at 1.72 mA, 400 V, 3 phases<br>7000 rpm for LXM62 at 1.7 mA, 480 V, 3 phases |
| Maximum current Irms      | 5.97 A                                                                                                                                                                                                                                                                                                                                                                                                 |
| Shaft end                 | Smooth shaft                                                                                                                                                                                                                                                                                                                                                                                           |
| Second shaft              | Without second shaft end                                                                                                                                                                                                                                                                                                                                                                               |
| Shaft diameter            | 11 mm                                                                                                                                                                                                                                                                                                                                                                                                  |
| Shaft length              | 23 mm                                                                                                                                                                                                                                                                                                                                                                                                  |
| IP degree of protection   | IP65 standard                                                                                                                                                                                                                                                                                                                                                                                          |
| Encoder type              | Single turn SinCos Hiperface                                                                                                                                                                                                                                                                                                                                                                           |
| Speed feedback resolution | 128 periods                                                                                                                                                                                                                                                                                                                                                                                            |
| Holding brake             | Without                                                                                                                                                                                                                                                                                                                                                                                                |
| Mounting support          | International standard flange                                                                                                                                                                                                                                                                                                                                                                          |
| Motor flange size         | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                 | Rotatable right-angled connectors                                                                                          |
| Torque constant                       | 0.79 N.m/A at 120 °C                                                                                                       |
| Back emf constant                     | 50.72 V/krpm                                                                                                               |
| Number of motor poles                 | 10                                                                                                                         |
| Rotor inertia                         | 0.59 kg.cm <sup>2</sup>                                                                                                    |
| Stator resistance                     | 8.28 Ohm                                                                                                                   |
| Stator inductance                     | 23.4 mH                                                                                                                    |
| Stator electrical time constant       | 2.8 ms                                                                                                                     |
| Maximum radial force Fr               | 660 N at 1000 rpm<br>520 N at 2000 rpm<br>460 N at 3000 rpm<br>410 N at 4000 rpm<br>380 N at 5000 rpm<br>360 N at 6000 rpm |
| Type of cooling                       | Natural convection                                                                                                         |
| Length                                | 122 mm                                                                                                                     |
| Centring collar diameter              | 60 mm                                                                                                                      |
| Centring collar depth                 | 2.5 mm                                                                                                                     |
| Number of mounting holes              | 4                                                                                                                          |
| Mounting holes diameter               | 5.5 mm                                                                                                                     |
| Circle diameter of the mounting holes | 82 mm                                                                                                                      |
| Net weight                            | 1.6 kg                                                                                                                     |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 11.5 cm  |
| Package 1 Width              | 19.0 cm  |
| Package 1 Length             | 39.5 cm  |
| Package 1 Weight             | 2.218 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                                                                                                                               |