# Product data sheet

Specifications

Green Premium™

## servo motor MH3 100 5,8Nm,no key,single 16 lines,no brake,IP65/IP67,4kRPM

MH31002P06A2200

Discontinued on: Oct 9, 2023

Discontinued

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range Compatibility** | PacDrive 3 |
| **Product Or Component Type** | AC servo motors |
| **Device Short Name** | MH3 |

## Complementary

| | |
|---|---|
| **Maximum Mechanical Speed** | 6000 rpm |
| **[Us] Rated Supply Voltage** | 115...480 V |
| **Phase** | Three phase |
| **Continuous Stall Current** | 5.04 A |
| **Continuous Stall Torque** | 53.10 lbf.in (6 N.m), 115...480 V, three phase |
| **Continuous Power** | 2270 W |
| **Peak Stall Torque** | 159.31 lbf.in (18 N.m), 115...480 V, three phase |
| **Nominal Output Power** | 0.59 W, 115 V<br>1.12 W, 230 V<br>1.95 W, 400 V<br>2.27 W, 480 V |
| **Nominal Torque** | 50.18 lbf.in (5.67 N.m) LXM52 4.81 mA, 115 V, 1 phase<br>47.17 lbf.in (5.33 N.m) LXM52 4.58 mA, 230 V, 1 phase<br>41.33 lbf.in (4.67 N.m) LXM52 4.1 mA, 400 V, 3 phase<br>37.17 lbf.in (4.2 N.m) LXM52 3.73 mA, 480 V, 3 phase<br>50.18 lbf.in (5.67 N.m) LXM62 4.81 mA, 115 V, 1 phase<br>47.17 lbf.in (5.33 N.m) LXM62 4.58 mA, 230 V, 1 phase<br>41.33 lbf.in (4.67 N.m) LXM62 4.1 mA, 400 V, 3 phase<br>37.17 lbf.in (4.2 N.m) LXM62 3.73 mA, 480 V, 3 phase |
| **Nominal Speed** | 1000 rpm LXM52 4.81 mA, 115 V, 1 phase<br>2000 rpm LXM52 4.58 mA, 230 V, 1 phase<br>4000 rpm LXM52 4.1 mA, 400 V, 3 phase<br>5000 rpm LXM52 3.73 mA, 480 V, 3 phase<br>1000 rpm LXM62 4.81 mA, 115 V, 1 phase<br>2000 rpm LXM62 4.58 mA, 230 V, 1 phase<br>4000 rpm LXM62 4.1 mA, 400 V, 3 phase<br>5000 rpm LXM62 3.73 mA, 480 V, 3 phase |
| **Maximum Current Irms** | 17.4 A |
| **Shaft End** | Smooth shaft |
| **Second Shaft** | Without second shaft end |
| **Shaft Diameter** | 0.75 in (19 mm) |
| **Shaft Length** | 1.57 in (40 mm) |
| **Ip Degree Of Protection** | IP65 standard |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Encoder Type** | Single turn SinCos Hiperface |
| **Speed Feedback Resolution** | 16 periods |
| **Holding Brake** | Without |
| **Mounting Support** | International standard flange |
| **Motor Flange Size** | 3.94 in (100 mm) |
| **Electrical Connection** | Rotatable right-angled connectors |
| **Torque Constant** | 1.19 N.m/A 248 °F (120 °C) |
| **Back Emf Constant** | 78 V/krpm |
| **Number Of Motor Poles** | 10 |
| **Rotor Inertia** | 6.28 kg.cm² |
| **Stator Resistance** | 1.97 Ohm |
| **Stator Inductance** | 8.24 mH |
| **Stator Electrical Time Constant** | 5 ms |
| **Maximum Radial Force Fr** | 990 N 1000 rpm<br>790 N 2000 rpm<br>690 N 3000 rpm<br>620 N 4000 rpm<br>580 N 5000 rpm |
| **Type Of Cooling** | Natural convection |
| **Length** | 6.32 in (160.6 mm) |
| **Centring Collar Diameter** | 3.74 in (95 mm) |
| **Centring Collar Depth** | 0.14 in (3.5 mm) |
| **Number Of Mounting Holes** | 4 |
| **Mounting Holes Diameter** | 0.35 in (9 mm) |
| **Circle Diameter Of The Mounting Holes** | 4.53 in (115 mm) |
| **Net Weight** | 10.85 lb(US) (4.92 kg) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC5218359 |
| **Discount Schedule** | PC52 |
| **Gtin** | 3606485396149 |
| **Returnability** | No |
| **Country Of Origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 8.27 in (21.0 cm) |
| **Package 1 Width** | 7.09 in (18.0 cm) |
| **Package 1 Length** | 14.02 in (35.6 cm) |
| **Package 1 Weight** | 12.39 lb(US) (5.62 kg) |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| **China Rohs Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **Circularity Profile** | No need of specific recycling operations |
| **California Proposition 65** | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |