

# Product data sheet

Specifications



## servo motor MH3 070 2,2Nm,no key,single,brake,IP65/IP67,6kRPM

MH30702P01F2200

⚠ Discontinued on: Sep 30, 2023

⚠ End-of-service on: Mar 31, 2025

⚠ Discontinued - Service only

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

### Main

|                           |             |
|---------------------------|-------------|
| Range Compatibility       | PacDrive 3  |
| Device short name         | MH3         |
| Product or Component Type | Servo motor |

### Complementary

|                           |   |
|---------------------------|---|
| Maximum mechanical speed  | 8000 rpm  |
| [Us] rated supply voltage | 115...480 V   |
| Phase                     | Three phase   |
| Continuous stall current  | 2.94 A  |
| Continuous stall torque   | 21.95 lbf.in (2.48 N.m), 115...480 V, three phase   |
| Continuous power          | 1380 W  |
| Peak stall torque         | 65.5 lbf.in (7.4 N.m), 115...480 V, three phase   |
| Nominal output power      | 0.31 W, 115 V<br>0.7 W, 230 V<br>1.16 W, 400 V<br>1.38 W, 480 V   |
| Nominal torque            | 20.98 lbf.in (2.37 N.m) LXM52 2.82 mA, 115 V, three phase<br>19.74 lbf.in (2.23 N.m) LXM52 2.7 mA, 230 V, single phase<br>17.79 lbf.in (2.01 N.m) LXM52 2.49 mA, 400 V, three phase<br>16.73 lbf.in (1.89 N.m) LXM52 2.36 mA, 480 V, three phase<br>20.98 lbf.in (2.37 N.m) LXM62 2.82 mA, 115 V, single phase<br>19.74 lbf.in (2.23 N.m) LXM62 2.7 mA, 230 V, single phase<br>17.79 lbf.in (2.01 N.m) LXM62 2.49 mA, 400 V, three phase<br>16.73 lbf.in (1.89 N.m) LXM62 2.36 mA, 480 V, three phase |
| Nominal speed             | 1250 rpm LXM52 2.82 mA, 115 V, single phase<br>3000 rpm LXM52 2.7 mA, 230 V, single phase<br>5500 rpm LXM52 2.49 mA, 400 V, three phase<br>7000 rpm LXM52 2.36 mA, 480 V, three phase<br>1250 rpm LXM62 2.82 mA, 115 V, single phase<br>3000 rpm LXM62 2.7 mA, 230 V, single phase<br>5500 rpm LXM62 2.49 mA, 400 V, three phase<br>7000 rpm LXM62 2.36 mA, 480 V, three phase  |
| Maximum current Irms      | 9.68 A  |
| Shaft end                 | Smooth shaft  |
| Second shaft              | Without second shaft end  |
| Shaft diameter            | 0.4 in (11 mm)  |
| Shaft length              | 0.9 in (23 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.

|                                       |  |
|---------------------------------------|--|
| Encoder type                          | Single turn SinCos Hiperface   |
| Speed feedback resolution             | 128 periods  |
| Holding brake                         | With   |
| Holding torque                        | 26.6 lbf.in (3 N.m)  |
| Mounting Support                      | International standard flange  |
| Motor flange size                     | 2.8 in (70 mm)   |
| Electrical Connection                 | Rotatable right-angled connectors  |
| Torque constant                       | 0.84 N.m/A 248 °F (120 °C)   |
| Back emf constant                     | 54.08 V/krpm   |
| Number of motor poles                 | 10   |
| Rotor inertia                         | 1.24 kg.cm <sup>2</sup>  |
| Stator resistance                     | 3.84 Ohm   |
| Stator inductance                     | 12.19 mH   |
| Stator electrical time constant       | 3.2 ms   |
| Maximum radial force Fr               | 710 N 1000 rpm<br>560 N 2000 rpm<br>490 N 3000 rpm<br>450 N 4000 rpm<br>410 N 5000 rpm<br>390 N 6000 rpm |
| Brake pull-in power                   | 7 W  |
| Type of cooling                       | Natural convection   |
| Length                                | 7.6 in (193 mm)  |
| Centring collar diameter              | 2.4 in (60 mm)   |
| Centring collar depth                 | 0.10 in (2.5 mm)   |
| Number of mounting holes              | 4  |
| Mounting holes diameter               | 0.2 in (5.5 mm)  |
| Circle diameter of the mounting holes | 3.2 in (82 mm)   |
| Net Weight                            | 7.3 lb(US) (3.3 kg)  |
| Sizing reference                      | MH30702P   |
| Temperature copper hot                | 275 °F (135 °C)  |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC5218359  |
| Discount Schedule | PC52          |
| GTIN              | 3606485395128 |
| Returnability     | No            |
| Country of origin | DE            |

## Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Nbr. of units in pkg.  | 1                |
| Package 1 Height       | 4.5 in (11.5 cm) |

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|                            |                      |
|----------------------------|----------------------|
| <b>Package 1 Width</b>     | 7.5 in (19.0 cm)     |
| <b>Package 1 Length</b>    | 15.6 in (39.5 cm)    |
| <b>Package weight(Lbs)</b> | 5.07 lb(US) (2.3 kg) |

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## **Contractual warranty**

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|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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

| <b>Materials and Substances</b>        |  |
|--|--|
| Packaging made with recycled cardboard | No   |
| Packaging without single use plastic   | No   |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope)   |
| REACH Regulation                       | <a href="#">REACH Declaration</a>  |
| California proposition 65              | <b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| PVC free                               | Yes  |

### Use Longer

| <b>Lifetime extension</b> |    |
|---------------------------|----|
| Repair                    | No |

### Use Again

| <b>Repack and remanufacture</b> |  |
|---------------------------------|--|
| Circularity Profile             | No need of specific recycling operations |
| Take-back                       | No                                       |