

# Product data sheet

Specifications



servo motor MH3 100  
3,3Nm,key,single 16  
lines,brake,IP65/IP67,4kRPM

MH31001P16F2200

⚠ Discontinued on: Oct 9, 2023

⚠ Discontinued

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	6000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	3.15 A
Continuous stall torque	30.09 lbf.in (3.4 N.m), 115...480 V, three phase
Continuous power	1520 W
Peak stall torque	95.6 lbf.in (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	29.2 lbf.in (3.3 N.m) LXM52 3.07 mA, 115 V, three phase 28.3 lbf.in (3.2 N.m) LXM52 2.99 mA, 230 V, single phase 26.6 lbf.in (3 N.m) LXM52 2.83 mA, 400 V, three phase 25.7 lbf.in (2.9 N.m) LXM52 2.75 mA, 480 V, three phase 29.2 lbf.in (3.3 N.m) LXM62 3.07 mA, 115 V, single phase 28.3 lbf.in (3.2 N.m) LXM62 2.99 mA, 230 V, single phase 26.6 lbf.in (3 N.m) LXM62 2.83 mA, 400 V, three phase 25.7 lbf.in (2.9 N.m) LXM62 2.75 mA, 480 V, three phase
Nominal speed	1000 rpm LXM52 3.07 mA, 115 V, single phase 2000 rpm LXM52 2.99 mA, 230 V, single phase 4000 rpm LXM52 2.83 mA, 400 V, three phase 5000 rpm LXM52 2.75 mA, 480 V, three phase 1000 rpm LXM62 3.07 mA, 115 V, single phase 2000 rpm LXM62 2.99 mA, 230 V, single phase 4000 rpm LXM62 2.83 mA, 400 V, three phase 5000 rpm LXM62 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	0.7 in (19 mm)
Shaft length	1.6 in (40 mm)
Key width	0.2 in (6 mm)

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

<b>IP Degree of Protection</b>	IP65 standard
<b>Encoder type</b>	Single turn SinCos Hiperface
<b>Speed feedback resolution</b>	16 periods
<b>Holding brake</b>	With
<b>Holding torque</b>	48.7 lbf.in (5.5 N.m)
<b>Mounting Support</b>	International standard flange
<b>Motor flange size</b>	3.9 in (100 mm)
<b>Electrical Connection</b>	Rotatable right-angled connectors
<b>Torque constant</b>	1.09 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	70.3 V/krpm
<b>Number of motor poles</b>	10
<b>Rotor inertia</b>	3.68 kg.cm <sup>2</sup>
<b>Stator resistance</b>	4.12 Ohm
<b>Stator inductance</b>	14.9 mH
<b>Stator electrical time constant</b>	4.5 ms
<b>Maximum radial force Fr</b>	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm
<b>Brake pull-in power</b>	12 W
<b>Type of cooling</b>	Natural convection
<b>Length</b>	6.7 in (170.3 mm)
<b>Centring collar diameter</b>	3.7 in (95 mm)
<b>Centring collar depth</b>	0.1 in (3.5 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.4 in (9 mm)
<b>Circle diameter of the mounting holes</b>	4.5 in (115 mm)
<b>Net Weight</b>	10.6 lb(US) (4.8 kg)
<b>Sizing reference</b>	MH31001P
<b>Temperature copper hot</b>	275 °F (135 °C)

## Ordering and shipping details

<b>Category</b>	US1PC5218359
<b>Discount Schedule</b>	PC52
<b>GTIN</b>	3606485396002
<b>Returnability</b>	No
<b>Country of origin</b>	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	8.3 in (21.0 cm)

---

<b>Package 1 Width</b>	7.09 in (18.0 cm)
<b>Package 1 Length</b>	14.02 in (35.6 cm)
<b>Package weight(Lbs)</b>	8.91 lb(US) (4.04 kg)

---

## **Contractual warranty**

---

<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



#### Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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](http://www.P65Warnings.ca.gov)

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

Circularity Profile

No need of specific recycling operations