Product data sheet

Specifications

Discontinued

servo motor MH3 100 3,3Nm,key,single,no brake,IP65/ IP67,4kRPM

MH31001P11A2200

Discontinued on: Oct 9, 2023

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.

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	3.9 in (100 mm)
Electrical Connection	Rotatable right-angled connectors
Torque constant	1.09 N.m/A 248 °F (120 °C)
Back emf constant	70.3 V/krpm
Number of motor poles	10
Rotor inertia	3.19 kg.cm²
Stator resistance	4.12 Ohm
Stator inductance	14.9 mH
Stator electrical time constant	4.5 ms
Maximum radial force Fr	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm
Type of cooling	Natural convection
Length	5.06 in (128.6 mm)
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	7.36 lb(US) (3.34 kg)
Sizing reference	MH31001P
Temperature copper hot	275 °F (135 °C)

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485395906
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.3 in (21.0 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	14.02 in (35.6 cm)

Package weight(Lbs)	8.91 lb(US) (4.04 kg)

Contractual warranty

Warranty (in months)	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**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**