# **Product datasheet**





## servo motor MH3 100 3,3Nm,key,multi,brake,IP65/ IP67,4kRPM

MH31001P12F2200

! Discontinued on: 9 Feb 2023

! Discontinued

### 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	115480 V
Network Number Of Phases	Three phase
Continuous Stall Current	3.15 A
Continuous Stall Torque	3.4 N.m, 115480 V, three phase
Continuous Power	1520 W
Peak Stall Torque	10.8 N.m, 115480 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	3.3 N.m for LXM52 at 3.07 mA, 115 V, 1 phase
	3.2 N.m for LXM52 at 2.99 mA, 230 V, 1 phase
	3 N.m for LXM52 at 2.83 mA, 400 V, 3 phases
	2.9 N.m for LXM52 at 2.75 mA, 480 V, 3 phases
	3.3 N.m for LXM62 at 3.07 mA, 115 V, 1 phase
	3.2 N.m for LXM62 at 2.99 mA, 230 V, 1 phase
	3 N.m for LXM62 at 2.83 mA, 400 V, 3 phases
	2.9 N.m for LXM62 at 2.75 mA, 480 V, 3 phases
Nominal Speed	1000 rpm for LXM52 at 3.07 mA, 115 V, 1 phase
	2000 rpm for LXM52 at 2.99 mA, 230 V, 1 phase
	4000 rpm for LXM52 at 2.83 mA, 400 V, 3 phases
	5000 rpm for LXM52 at 2.75 mA, 480 V, 3 phases
	1000 rpm for LXM62 at 3.07 mA, 115 V, 1 phase
	2000 rpm for LXM62 at 2.99 mA, 230 V, 1 phase
	4000 rpm for LXM62 at 2.83 mA, 400 V, 3 phases
	5000 rpm for LXM62 at 2.75 mA, 480 V, 3 phases
Maximum Current Irms	10.68 A
Shaft End	Parallel key
Second Shaft	Without second shaft end
Shaft Diameter	19 mm
Shaft Length	40 mm
Key Width	6 mm

Ip Degree Of Protection	IP65 standard
Encoder Type	Multiturn SinCos Hiperface
Speed Feedback Resolution	128 periods
Holding Brake	With
Holding Torque	5.5 N.m
Mounting Support	International standard flange
Motor Flange Size	100 mm
Electrical Connection	Rotatable right-angled connectors
Torque Constant	1.09 N.m/A at 120 °C
Back Emf Constant	70.3 V/krpm
Number Of Motor Poles	10
Rotor Inertia	3.68 kg.cm <sup>2</sup>
Stator Resistance	4.12 Ohm
Stator Inductance	14.9 mH
Stator Electrical Time Constant	4.5 ms
Maximum Radial Force Fr	900 N at 1000 rpm
	720 N at 2000 rpm
	630 N at 3000 rpm
	570 N at 4000 rpm
	530 N at 5000 rpm
	330 N at 3000 Ipini
Brake Pull-In Power	12 W
Type Of Cooling	Natural convection
Length	170.3 mm
Centring Collar Diameter	95 mm
Centring Collar Depth	3.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	9 mm
Circle Diameter Of The Mounting Holes	115 mm
Net Weight	4.8 kg

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	19.500 cm
Package 1 Width	22.000 cm
Package 1 Length	40.000 cm
Package 1 Weight	5.402 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	11.454 kg

Unit Type Of Package 3	P06
Number Of Units In Package 3	8
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	53.816 kg



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Transparency RoHS/REACh

### Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

### **Certifications & Standards**

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
<b>Environmental Disclosure</b>	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

23 Apr 2024