

# Product data sheet

## Characteristics

# MH31001P01A2200

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



### Main

Range compatibility	PacDrive 3
Device short name	MH3
Product or component type	AC servo motors

### Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	3.15 A
Continuous stall torque	3.4 N.m, 115...480 V, three phase
Continuous power	1520 W
Peak stall torque	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	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 $I_{rms}$	10.68 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
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	100 mm

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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	3.19 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
Type of cooling	Natural convection
Length	128.6 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	3.34 kg

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	18.0 cm
Package 1 Length	35.6 cm
Package 1 Weight	3.54 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
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
PVC free	Yes