

Product data sheet

Characteristics

MH31003P16F2200

servo motor MH3 100 8Nm,key,single 16 lines,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	7.69 A
Continuous stall torque	9 N.m, 115...480 V, three phase
Continuous power	3270 W
Peak stall torque	27 N.m, 115...480 V, three phase
Nominal output power	0.88 W, 115 V 2 W, 230 V 2.85 W, 400 V 3.27 W, 480 V
Nominal torque	8.45 N.M for LXM52 at 7.3 mA, 115 V, 1 phase 7.63 N.M for LXM52 at 6.7 mA, 230 V, 1 phase 6.8 N.M for LXM52 at 6.07 mA, 400 V, 3 phases 6.25 N.M for LXM52 at 5.64 mA, 480 V, 3 phases 8.45 N.M for LXM62 at 7.3 mA, 115 V, 1 phase 7.63 N.M for LXM62 at 6.7 mA, 230 V, 1 phase 6.8 N.M for LXM62 at 6.07 mA, 400 V, 3 phases 6.25 N.m for LXM62 at 5.64 mA, 480 V, 3 phases
Nominal speed	1000 rpm for LXM52 at 7.3 mA, 115 V, 1 phase 2500 rpm for LXM52 at 6.7 mA, 230 V, 1 phase 4000 rpm for LXM52 at 6.07 mA, 400 V, 3 phases 5000 rpm for LXM52 at 5.64 mA, 480 V, 3 phases 1000 rpm for LXM62 at 7.3 mA, 115 V, 1 phase 2500 rpm for LXM62 at 6.7 mA, 230 V, 1 phase 4000 rpm for LXM62 at 6.07 mA, 400 V, 3 phases 5000 rpm for LXM62 at 5.64 mA, 480 V, 3 phases
Maximum current I_{rms}	26.71 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	Single turn SinCos Hiperface
Speed feedback resolution	16 periods
Holding brake	With
Holding torque	9 N.m

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Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.17 N.m/A at 120 °C
Back emf constant	77.95 V/krpm
Number of motor poles	10
Rotor inertia	10.3 kg.cm ²
Stator resistance	1.08 Ohm
Stator inductance	5.23 mH
Stator electrical time constant	6.3 ms
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	234.3 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	8.15 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	7.45 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
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