

Product data sheet

Characteristics

MH30701P07F2200

servo motor MH3 070 1,4Nm,no key,multi 16 lines,brake,IP65/IP67,6kRPM



Main

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

Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.78 A
Continuous stall torque	1.4 N.m, 115...480 V, three phase
Continuous power	930 W
Peak stall torque	4.2 N.m, 115...480 V, three phase
Nominal output power	0.18 W, 115 V 0.42 W, 230 V 0.75 W, 400 V 0.93 W, 480 V
Nominal torque	1.38 N.M for LXM52 at 1.75 mA, 115 V, 1 phase 1.34 N.M for LXM52 at 1.75 mA, 230 V, 1 phase 1.3 N.M for LXM52 at 1.72 mA, 400 V, 3 phases 1.27 N.M for LXM52 at 1.7 mA, 480 V, 3 phases 1.38 N.M for LXM62 at 1.75 mA, 115 V, 1 phase 1.34 N.M for LXM62 at 1.75 mA, 230 V, 1 phase 1.3 N.M for LXM62 at 1.72 mA, 400 V, 3 phases 1.27 N.m for LXM62 at 1.7 mA, 480 V, 3 phases
Nominal speed	1250 rpm for LXM52 at 1.75 mA, 115 V, 1 phase 3000 rpm for LXM52 at 1.75 mA, 230 V, 1 phase 5500 rpm for LXM52 at 1.72 mA, 400 V, 3 phases 7000 rpm for LXM52 at 1.7 mA, 480 V, 3 phases 1250 rpm for LXM62 at 1.75 mA, 115 V, 1 phase 3000 rpm for LXM62 at 1.75 mA, 230 V, 1 phase 5500 rpm for LXM62 at 1.72 mA, 400 V, 3 phases 7000 rpm for LXM62 at 1.7 mA, 480 V, 3 phases
Maximum current I_{rms}	5.97 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
IP degree of protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	16 periods
Holding brake	With
Holding torque	3 N.m
Mounting support	International standard flange

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Motor flange size	70 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	0.79 N.m/A at 120 °C
Back emf constant	50.72 V/krpm
Number of motor poles	10
Rotor inertia	0.7 kg.cm ²
Stator resistance	8.28 Ohm
Stator inductance	23.4 mH
Stator electrical time constant	2.8 ms
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	161 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	2.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	2.1 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