

# Product datasheet

Specifications



servo motor MH3 070 3,1Nm, no key, single, no brake, IP65/ IP67, 6kRPM

MH30703P01A2200

## Main

Range Compatibility	PacDrive 3
Product Or Component Type	AC servo motors
Device Short Name	MH3

## Complementary

Maximum Mechanical Speed	8000 rpm
[Us] Rated Supply Voltage	115...480 V
Network Number Of Phases	Three phase
Continuous Stall Current	3.91 A
Continuous Stall Torque	3.4 N.m, 115...480 V, three phase
Continuous Power	1540 W
Peak Stall Torque	10.2 N.m, 115...480 V, three phase
Nominal Output Power	0.42 W, 115 V 0.75 W, 230 V 1.32 W, 400 V 1.54 W, 480 V
Nominal Torque	3.18 N.m for LXM52 at 3.56 mA, 115 V, 1 phase 2.96 N.m for LXM52 at 3.47 mA, 230 V, 1 phase 2.53 N.m for LXM52 at 3.02 mA, 400 V, 3 phases 2.26 N.m for LXM52 at 2.74 mA, 480 V, 3 phases 3.18 N.m for LXM62 at 3.56 mA, 115 V, 1 phase 2.96 N.m for LXM62 at 3.47 mA, 230 V, 1 phase 2.53 N.m for LXM62 at 3.02 mA, 400 V, 3 phases 2.26 N.m for LXM62 at 2.74 mA, 480 V, 3 phases
Nominal Speed	1250 rpm for LXM52 at 3.56 mA, 115 V, 1 phase 2500 rpm for LXM52 at 3.47 mA, 230 V, 1 phase 5000 rpm for LXM52 at 3.02 mA, 400 V, 3 phases 6500 rpm for LXM52 at 2.74 mA, 480 V, 3 phases 1250 rpm for LXM62 at 3.56 mA, 115 V, 1 phase 2500 rpm for LXM62 at 3.47 mA, 230 V, 1 phase 5000 rpm for LXM62 at 3.02 mA, 400 V, 3 phases 6500 rpm for LXM62 at 2.74 mA, 480 V, 3 phases
Maximum Current Irms	12.57 A
Shaft End	Smooth shaft
Second Shaft	Without second shaft end
Shaft Diameter	14 mm
Shaft Length	30 mm
Ip Degree Of Protection	IP65 standard
Encoder Type	Single turn SinCos Hiperface
Speed Feedback Resolution	128 periods

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Holding Brake	Without
Mounting Support	International standard flange
Motor Flange Size	70 mm
Electrical Connection	Rotatable right-angled connectors
Torque Constant	0.87 N.m/A at 120 °C
Back Emf Constant	55 V/krpm
Number Of Motor Poles	10
Rotor Inertia	1.67 kg.cm²
Stator Resistance	2.65 Ohm
Stator Inductance	8.64 mH
Stator Electrical Time Constant	3.2 ms
Maximum Radial Force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Type Of Cooling	Natural convection
Length	186 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	3 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	2.5 kg

Sustainability



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	

Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations