Product datasheet

Specifications

Green Premium™

servo motor MH3 070 3,1Nm,key,single 16 lines,no brake,IP65/IP67,6kRPM

MH30703P16A2200

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	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	Parallel key
Second Shaft	Without second shaft end
Shaft Diameter	14 mm
Shaft Length	30 mm
Key Width	5 mm

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

Ip Degree Of Protection	IP65 standard
Encoder Type	Single turn SinCos Hiperface
Speed Feedback Resolution	16 periods
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

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

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

Learn more about Green Premium >

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