Product datasheet

Specifications

Green Premium™

servo motor MH3 100 3,3Nm,key,single 16 lines,brake,IP65/IP67,4kRPM

MH31001P16F2200

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	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 Irms	10.68 A
Shaft End	Parallel key
Second Shaft	Without second shaft end
Shaft Diameter	19 mm
Shaft Length	40 mm
Key Width	6 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	With
Holding Torque	5.5 N.m
Mounting Support	International standard flange
Motor Flange Size	100 mm
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	3.68 kg.cm²
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
Brake Pull-In Power	12 W
Type Of Cooling	Natural convection
Length	170.3 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	4.8 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	4.04 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