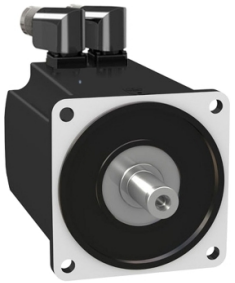
Product data sheet

Specifications

Green Premium™



servo motor MH3 140 19,5Nm,key,single 16 lines,brake,IP65/IP67,3kRPM

MH31402P16F2200

Discontinued on: Oct 9, 2023

Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

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

Complementary

Maximum Mechanical Speed	4000 rpm
[Us] Rated Supply Voltage	115...480 V
Phase	Three phase
Continuous Stall Current	16.83 A
Continuous Stall Torque	163.74 lbf.in (18.5 N.m), 115...480 V, three phase
Continuous Power	3730 W
Peak Stall Torque	491.22 lbf.in (55.5 N.m), 115...480 V, three phase
Nominal Output Power	1.71 W, 115 V 2.93 W, 230 V 3.73 W, 400 V 3.73 W, 480 V
Nominal Torque	144.62 lbf.in (16.34 N.m) LXM52 14.87 mA, 115 V, 1 phase 123.91 lbf.in (14.0 N.m) LXM52 13.13 mA, 230 V, 1 phase 90.01 lbf.in (10.17 N.m) LXM52 9.76 mA, 400 V, 3 phase 90.01 lbf.in (10.17 N.m) LXM52 9.76 mA, 480 V, 3 phase 144.62 lbf.in (16.34 N.m) LXM62 14.87 mA, 115 V, 1 phase 123.91 lbf.in (14.0 N.m) LXM62 13.13 mA, 230 V, 1 phase 90.01 lbf.in (10.17 N.m) LXM62 9.76 mA, 400 V, 3 phase 90.01 lbf.in (10.17 N.m) LXM62 9.76 mA, 480 V, 3 phase
Nominal Speed	1000 rpm LXM52 14.87 mA, 115 V, 1 phase 2000 rpm LXM52 13.13 mA, 230 V, 1 phase 3500 rpm LXM52 9.76 mA, 400 V, 3 phase 3500 rpm LXM52 9.76 mA, 480 V, 3 phase 1000 rpm LXM62 14.87 mA, 115 V, 1 phase 2000 rpm LXM62 13.13 mA, 230 V, 1 phase 3500 rpm LXM62 9.76 mA, 400 V, 3 phase 3500 rpm LXM62 9.76 mA, 480 V, 3 phase
Maximum Current Irms	57.42 A
Shaft End	Parallel key
Second Shaft	Without second shaft end
Shaft Diameter	0.94 in (24 mm)
Shaft Length	1.97 in (50 mm)
Key Width	0.31 in (8 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	159.31 lbf.in (18 N.m)
Mounting Support	International standard flange
Motor Flange Size	5.51 in (140 mm)
Electrical Connection	Rotatable right-angled connectors
Torque Constant	1.1 N.m/A 248 °F (120 °C)
Back Emf Constant	70.7 V/krpm
Number Of Motor Poles	10
Rotor Inertia	33.5 kg.cm²
Stator Resistance	0.23 Ohm
Stator Inductance	2.99 mH
Stator Electrical Time Constant	13 ms
Maximum Radial Force Fr	2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm
Brake Pull-In Power	18 W
Type Of Cooling	Natural convection
Length	8.94 in (227 mm)
Centring Collar Diameter	5.12 in (130 mm)
Centring Collar Depth	0.14 in (3.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.43 in (11 mm)
Circle Diameter Of The Mounting Holes	6.50 in (165 mm)
Net Weight	31.53 lb(US) (14.3 kg)

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
Gtin	3606485397283
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package 1 Weight	29.32 lb(US) (13.3 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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov