Product data sheet

Specifications

Green Premium™

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

MH30703P11A2200

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	8000 rpm
[Us] Rated Supply Voltage	115...480 V
Phase	Three phase
Continuous Stall Current	3.91 A
Continuous Stall Torque	30.09 lbf.in (3.4 N.m), 115...480 V, three phase
Continuous Power	1540 W
Peak Stall Torque	90.28 lbf.in (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	28.15 lbf.in (3.18 N.m) LXM52 3.56 mA, 115 V, 1 phase 26.20 lbf.in (2.96 N.m) LXM52 3.47 mA, 230 V, 1 phase 22.39 lbf.in (2.53 N.m) LXM52 3.02 mA, 400 V, 3 phase 20.00 lbf.in (2.26 N.m) LXM52 2.74 mA, 480 V, 3 phase 28.15 lbf.in (3.18 N.m) LXM62 3.56 mA, 115 V, 1 phase 26.20 lbf.in (2.96 N.m) LXM62 3.47 mA, 230 V, 1 phase 22.39 lbf.in (2.53 N.m) LXM62 3.02 mA, 400 V, 3 phase 20.00 lbf.in (2.26 N.m) LXM62 2.74 mA, 480 V, 3 phase
Nominal Speed	1250 rpm LXM52 3.56 mA, 115 V, 1 phase 2500 rpm LXM52 3.47 mA, 230 V, 1 phase 5000 rpm LXM52 3.02 mA, 400 V, 3 phase 6500 rpm LXM52 2.74 mA, 480 V, 3 phase 1250 rpm LXM62 3.56 mA, 115 V, 1 phase 2500 rpm LXM62 3.47 mA, 230 V, 1 phase 5000 rpm LXM62 3.02 mA, 400 V, 3 phase 6500 rpm LXM62 2.74 mA, 480 V, 3 phase
Maximum Current Irms	12.57 A
Shaft End	Parallel key
Second Shaft	Without second shaft end
Shaft Diameter	0.55 in (14 mm)
Shaft Length	1.18 in (30 mm)
Key Width	0.20 in (5 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	128 periods
Holding Brake	Without
Mounting Support	International standard flange
Motor Flange Size	2.76 in (70 mm)
Electrical Connection	Rotatable right-angled connectors
Torque Constant	0.87 N.m/A 248 °F (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 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Type Of Cooling	Natural convection
Length	7.32 in (186 mm)
Centring Collar Diameter	2.36 in (60 mm)
Centring Collar Depth	0.10 in (2.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.22 in (5.5 mm)
Circle Diameter Of The Mounting Holes	3.23 in (82 mm)
Net Weight	6.61 lb(US) (3 kg)

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
Gtin	3606485395586
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.53 in (11.5 cm)
Package 1 Width	7.48 in (19.0 cm)
Package 1 Length	15.55 in (39.5 cm)
Package 1 Weight	5.51 lb(US) (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
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