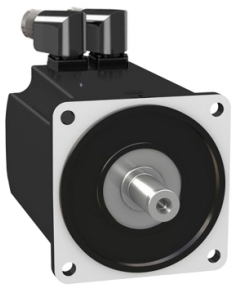
Product data sheet

Specifications



MH3 servomotor, 140mm, 2 stacks, smooth Shaft, SinCos Multiturn 16, Brake, angular, IP65

MH31402P07F2200

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

Main

Range Compatibility	PacDrive 3
Device short name	MH3
Product or Component Type	Servo motor

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	163.7 lbf.in (18.5 N.m), 115...480 V, three phase
Continuous power	3730 W
Peak stall torque	491.2 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, three phase 123.9 lbf.in (14.0 N.m) LXM52 13.13 mA, 230 V, single phase 90.01 lbf.in (10.17 N.m) LXM52 9.76 mA, 400 V, three phase 90.01 lbf.in (10.17 N.m) LXM52 9.76 mA, 480 V, three phase 144.62 lbf.in (16.34 N.m) LXM62 14.87 mA, 115 V, single phase 123.9 lbf.in (14.0 N.m) LXM62 13.13 mA, 230 V, single phase 90.01 lbf.in (10.17 N.m) LXM62 9.76 mA, 400 V, three phase 90.01 lbf.in (10.17 N.m) LXM62 9.76 mA, 480 V, three phase
Nominal speed	1000 rpm LXM52 14.87 mA, 115 V, single phase 2000 rpm LXM52 13.13 mA, 230 V, single phase 3500 rpm LXM52 9.76 mA, 400 V, three phase 3500 rpm LXM52 9.76 mA, 480 V, three phase 1000 rpm LXM62 14.87 mA, 115 V, single phase 2000 rpm LXM62 13.13 mA, 230 V, single phase 3500 rpm LXM62 9.76 mA, 400 V, three phase 3500 rpm LXM62 9.76 mA, 480 V, three phase
Maximum current Irms	46.22 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
IP Degree of Protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	16 periods

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

Holding brake	With
Holding torque	159.3 lbf.in (18 N.m)
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)
Electrical Connection	Rotatable right-angled connectors
Torque constant	1.24 N.m/A 248 °F (120 °C)
Back emf constant	70.7 V/krpm
Number of motor poles	5.0
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	8.9 in (227 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	31.5 lb(US) (14.3 kg)
Sizing reference	MH31402P
Temperature copper hot	275 °F (135 °C)
Output current 3s peak	46.22 A
Inertia	1.5 kg.cm² of brake 32.0 kg.cm² of motor
Nominal speed	3000 rpm

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485397160
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)

Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	23.2 in (59.0 cm)
Package weight(Lbs)	29.3 lb(US) (13.3 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**4 238 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**96 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**4 139 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
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**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**
Take-back	**No**