

Product data sheet

Specifications



MH3 servomotor, 70mm, 1 stack, smooth Shaft, SinCos Multiturn 16, Brake, angular, IP65

MH30701P07F2200

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	8000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	1.78 A
Continuous stall torque	12.4 lbf.in (1.4 N.m), 115...480 V, three phase
Continuous power	930 W
Peak stall torque	37.2 lbf.in (4.2 N.m), 115...480 V, three phase
Nominal output power	0.18 W, 115 V 0.42 W, 230 V 0.75 W, 400 V 0.93 W, 480 V
Nominal torque	12.21 lbf.in (1.38 N.m) LXM52 1.75 mA, 115 V, three phase 11.86 lbf.in (1.34 N.m) LXM52 1.75 mA, 230 V, single phase 11.5 lbf.in (1.3 N.m) LXM52 1.72 mA, 400 V, three phase 11.24 lbf.in (1.27 N.m) LXM52 1.7 mA, 480 V, three phase 12.21 lbf.in (1.38 N.m) LXM62 1.75 mA, 115 V, single phase 11.86 lbf.in (1.34 N.m) LXM62 1.75 mA, 230 V, single phase 11.5 lbf.in (1.3 N.m) LXM62 1.72 mA, 400 V, three phase 11.24 lbf.in (1.27 N.m) LXM62 1.7 mA, 480 V, three phase
Nominal speed	1250 rpm LXM52 1.75 mA, 115 V, single phase 3000 rpm LXM52 1.75 mA, 230 V, single phase 5500 rpm LXM52 1.72 mA, 400 V, three phase 7000 rpm LXM52 1.7 mA, 480 V, three phase 1250 rpm LXM62 1.75 mA, 115 V, single phase 3000 rpm LXM62 1.75 mA, 230 V, single phase 5500 rpm LXM62 1.72 mA, 400 V, three phase 7000 rpm LXM62 1.7 mA, 480 V, three phase
Maximum current Irms	5.97 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 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	26.6 lbf.in (3 N.m)
Mounting Support	International standard flange
Motor flange size	2.8 in (70 mm)
Electrical Connection	Rotatable right-angled connectors
Torque constant	0.79 N.m/A 248 °F (120 °C)
Back emf constant	50.72 V/krpm
Number of motor poles	5.0
Rotor inertia	0.7 kg.cm ²
Stator resistance	8.28 Ohm
Stator inductance	23.4 mH
Stator electrical time constant	2.8 ms
Maximum radial force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	6.3 in (161 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net Weight	5.7 lb(US) (2.6 kg)
Sizing reference	MH30701P
Temperature copper hot	275 °F (135 °C)
Output current 3s peak	5.97 A
Inertia	0.11 kg.cm ² of brake 0.59 kg.cm ² of motor
Nominal speed	5500 rpm

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485394923
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	4.5 in (11.5 cm)
Package 1 Width	7.5 in (19.0 cm)
Package 1 Length	15.6 in (39.5 cm)
Package weight(Lbs)	4.6 lb(US) (2.1 kg)

Contractual warranty

Warranty (in months)	18
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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	858 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	842 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 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
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Use Again



Repack and remanufacture

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