Product data sheet

Specifications

MH3 servomotor, 70mm, 3 stacks, keyed Shaft, SinCos Multiturn 16, Brake, angular, IP65

MH30703P17F2200

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	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	90.3 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, three phase 26.20 lbf.in (2.96 N.m) LXM52 3.47 mA, 230 V, single phase 22.39 lbf.in (2.53 N.m) LXM52 3.02 mA, 400 V, three phase 20.003 lbf.in (2.26 N.m) LXM52 2.74 mA, 480 V, three phase 28.15 lbf.in (3.18 N.m) LXM62 3.56 mA, 115 V, single phase 26.20 lbf.in (2.96 N.m) LXM62 3.47 mA, 230 V, single phase 22.39 lbf.in (2.53 N.m) LXM62 3.02 mA, 400 V, three phase 20.003 lbf.in (2.26 N.m) LXM62 2.74 mA, 480 V, three phase
Nominal speed	1250 rpm LXM52 3.56 mA, 115 V, single phase 2500 rpm LXM52 3.47 mA, 230 V, single phase 5000 rpm LXM52 3.02 mA, 400 V, three phase 6500 rpm LXM52 2.74 mA, 480 V, three phase 1250 rpm LXM62 3.56 mA, 115 V, single phase 2500 rpm LXM62 3.47 mA, 230 V, single phase 5000 rpm LXM62 3.02 mA, 400 V, three phase 6500 rpm LXM62 2.74 mA, 480 V, three phase
Maximum current Irms	12.57 A
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
Key width	0.2 in (5 mm)
IP Degree of Protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface

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

Speed feedback resolution	16 periods
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	0.87 N.m/A 248 °F (120 °C)
Back emf constant	55 V/krpm
Number of motor poles	5.0
Rotor inertia	1.78 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
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	8.9 in (225 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	8.8 lb(US) (4 kg)
Sizing reference	MH30703P
Temperature copper hot	275 °F (135 °C)
Output current 3s peak	12.57 A
Inertia	0.11 kg.cm² of brake 1.67 kg.cm² of motor
Nominal speed	5000 rpm

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485395722
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)	5.5 lb(US) (2.5 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	**1 503 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**29 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.5 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**1 473 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 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**