Product datasheet

Specifications

MH3 servomotor, 70mm, 3 stacks, keyed Shaft, SinCos Multiturn 16, no Brake, angular, IP65

MH30703P17A2200

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
Network number of phases	Three phase
Continuous stall current	3.91 A
Continuous stall torque	3.4 N.m, 115...480 V, three phase
Continuous power	1540 W
Peak stall torque	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	3.18 N.m for LXM52 at 3.56 mA, 115 V, three phase 2.96 N.m for LXM52 at 3.47 mA, 230 V, single phase 2.53 N.m for LXM52 at 3.02 mA, 400 V, three phase 2.26 N.m for LXM52 at 2.74 mA, 480 V, three phase 3.18 N.m for LXM62 at 3.56 mA, 115 V, single phase 2.96 N.m for LXM62 at 3.47 mA, 230 V, single phase 2.53 N.m for LXM62 at 3.02 mA, 400 V, three phase 2.26 N.m for LXM62 at 2.74 mA, 480 V, three phase
Nominal speed	1250 rpm for LXM52 at 3.56 mA, 115 V, single phase 2500 rpm for LXM52 at 3.47 mA, 230 V, single phase 5000 rpm for LXM52 at 3.02 mA, 400 V, three phase 6500 rpm for LXM52 at 2.74 mA, 480 V, three phase 1250 rpm for LXM62 at 3.56 mA, 115 V, single phase 2500 rpm for LXM62 at 3.47 mA, 230 V, single phase 5000 rpm for LXM62 at 3.02 mA, 400 V, three phase 6500 rpm for LXM62 at 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	14 mm
Shaft length	30 mm
Key width	5 mm
IP degree of protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface

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

Speed feedback resolution	16 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	0.87 N.m/A at 120 °C
Back emf constant	55 V/krpm
Number of motor poles	5.0
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 at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Type of cooling	Natural convection
Length	186 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	3 kg
Sizing reference	MH30703P
Temperature copper hot	135 °C
Output current 3s peak	12.57 A
Inertia	0.0 kg.cm² of brake 1.67 kg.cm² of motor
Nominal speed	5000 rpm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	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	**1 492 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**18 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]	**1 473 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**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

End of life manual availability	**No need of specific recycling operations**
Take-back	**Yes**