

# Product data sheet

Specifications



servo motor MH3 070  
2,2Nm,key,multi 16  
lines,brake,IP65/IP67,6kRPM

MH30702P17F2200

## 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	2.94 A
Continuous stall torque	21.95 lbf.in (2.48 N.m), 115...480 V, three phase
Continuous power	1380 W
Peak stall torque	65.5 lbf.in (7.4 N.m), 115...480 V, three phase
Nominal output power	0.31 W, 115 V 0.7 W, 230 V 1.16 W, 400 V 1.38 W, 480 V
Nominal torque	20.98 lbf.in (2.37 N.m) LXM52 2.82 mA, 115 V, three phase 19.74 lbf.in (2.23 N.m) LXM52 2.7 mA, 230 V, single phase 17.79 lbf.in (2.01 N.m) LXM52 2.49 mA, 400 V, three phase 16.73 lbf.in (1.89 N.m) LXM52 2.36 mA, 480 V, three phase 20.98 lbf.in (2.37 N.m) LXM62 2.82 mA, 115 V, single phase 19.74 lbf.in (2.23 N.m) LXM62 2.7 mA, 230 V, single phase 17.79 lbf.in (2.01 N.m) LXM62 2.49 mA, 400 V, three phase 16.73 lbf.in (1.89 N.m) LXM62 2.36 mA, 480 V, three phase
Nominal speed	1250 rpm LXM52 2.82 mA, 115 V, single phase 3000 rpm LXM52 2.7 mA, 230 V, single phase 5500 rpm LXM52 2.49 mA, 400 V, three phase 7000 rpm LXM52 2.36 mA, 480 V, three phase 1250 rpm LXM62 2.82 mA, 115 V, single phase 3000 rpm LXM62 2.7 mA, 230 V, single phase 5500 rpm LXM62 2.49 mA, 400 V, three phase 7000 rpm LXM62 2.36 mA, 480 V, three phase
Maximum current Irms	9.65 A
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Key width	0.2 in (4 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	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	0.84 N.m/A 248 °F (120 °C)
Back emf constant	54.08 V/krpm
Number of motor poles	5.0
Rotor inertia	1.24 kg.cm <sup>2</sup>
Stator resistance	3.84 Ohm
Stator inductance	12.19 mH
Stator electrical time constant	3.2 ms
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	7.6 in (193 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	7.3 lb(US) (3.3 kg)
Sizing reference	MH30702P
Temperature copper hot	275 °F (135 °C)
Output current 3s peak	9.65 A
Inertia	0.11 kg.cm <sup>2</sup> of brake 1.13 kg.cm <sup>2</sup> of motor
Nominal speed	5500 rpm

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	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 1 Weight	5.07 lb(US) (2.3 kg)

## Contractual warranty





## 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	1 320 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	24 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 296 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	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
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	Nej