

Product datasheet

Specifications



MH3 servomotor, 70mm, 2 stacks, smooth Shaft, SinCos Multiturn 128, Brake, angular, IP65

MH30702P02F2200

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	2.48 N.m, 115...480 V, three phase
Continuous power	1380 W
Peak stall torque	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	2.37 N.m for LXM52 at 2.82 mA, 115 V, three phase 2.23 N.m for LXM52 at 2.7 mA, 230 V, single phase 2.01 N.m for LXM52 at 2.49 mA, 400 V, three phase 1.89 N.m for LXM52 at 2.36 mA, 480 V, three phase 2.37 N.m for LXM62 at 2.82 mA, 115 V, single phase 2.23 N.m for LXM62 at 2.7 mA, 230 V, single phase 2.01 N.m for LXM62 at 2.49 mA, 400 V, three phase 1.89 N.m for LXM62 at 2.36 mA, 480 V, three phase
Nominal speed	1250 rpm for LXM52 at 2.82 mA, 115 V, single phase 3000 rpm for LXM52 at 2.7 mA, 230 V, single phase 5500 rpm for LXM52 at 2.49 mA, 400 V, three phase 7000 rpm for LXM52 at 2.36 mA, 480 V, three phase 1250 rpm for LXM62 at 2.82 mA, 115 V, single phase 3000 rpm for LXM62 at 2.7 mA, 230 V, single phase 5500 rpm for LXM62 at 2.49 mA, 400 V, three phase 7000 rpm for LXM62 at 2.36 mA, 480 V, three phase
Maximum current Irms	9.65 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
IP degree of protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	128 periods

Holding brake	With
Holding torque	3 N.m
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	0.84 N.m/A at 120 °C
Back emf constant	54.08 V/krpm
Number of motor poles	5.0
Rotor inertia	1.24 kg.cm ²
Stator resistance	3.84 Ohm
Stator inductance	12.19 mH
Stator electrical time constant	3.2 ms
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	193 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
Product weight	3.3 kg
Sizing reference	MH30702P
Temperature copper hot	135 °C
Output current 3s peak	9.65 A
Inertia	0.11 kg.cm ² of brake 1.13 kg.cm ² of motor
Nominal speed	5500 rpm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.8 cm
Package 1 Width	17.5 cm
Package 1 Length	37.8 cm
Package 1 Weight	2.3 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	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	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

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