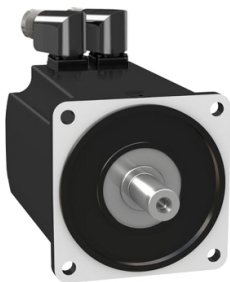


Product datasheet

Specifications



MH3 servomotor, 140mm, 2 stacks, smooth Shaft, SinCos Singleturn 128, no Brake, angular, IP65

MH31402P01A2200

Main

Range compatibility	PacDrive 3
Device short name	MH3
Product or component type	Servo motor

Complementary

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	16.83 A
Continuous stall torque	18.5 N.m, 115...480 V, three phase
Continuous power	3730 W
Peak stall torque	55.5 N.m, 115...480 V, three phase
Nominal output power	1.71 W, 115 V 2.93 W, 230 V 3.73 W, 400 V 3.73 W, 480 V
Nominal torque	16.34 N.m for LXM52 at 14.87 mA, 115 V, three phase 14.0 N.m for LXM52 at 13.13 mA, 230 V, single phase 10.17 N.m for LXM52 at 9.76 mA, 400 V, three phase 10.17 N.m for LXM52 at 9.76 mA, 480 V, three phase 16.34 N.m for LXM62 at 14.87 mA, 115 V, single phase 14.0 N.m for LXM62 at 13.13 mA, 230 V, single phase 10.17 N.m for LXM62 at 9.76 mA, 400 V, three phase 10.17 N.m for LXM62 at 9.76 mA, 480 V, three phase
Nominal speed	1000 rpm for LXM52 at 14.87 mA, 115 V, single phase 2000 rpm for LXM52 at 13.13 mA, 230 V, single phase 3500 rpm for LXM52 at 9.76 mA, 400 V, three phase 3500 rpm for LXM52 at 9.76 mA, 480 V, three phase 1000 rpm for LXM62 at 14.87 mA, 115 V, single phase 2000 rpm for LXM62 at 13.13 mA, 230 V, single phase 3500 rpm for LXM62 at 9.76 mA, 400 V, three phase 3500 rpm for LXM62 at 9.76 mA, 480 V, three phase
Maximum current Irms	46.22 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
IP degree of protection	IP65 standard
Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	128 periods

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

Holding brake	Without
Mounting support	International standard flange
Motor flange size	140 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.24 N.m/A at 120 °C
Back emf constant	70.7 V/krpm
Number of motor poles	5.0
Rotor inertia	32 kg.cm²
Stator resistance	0.23 Ohm
Stator inductance	2.99 mH
Stator electrical time constant	13 ms
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm
Type of cooling	Natural convection
Length	192 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	12 kg
Sizing reference	MH31402P
Temperature copper hot	135 °C
Output current 3s peak	46.22 A
Inertia	0.0 kg.cm² of brake 32.0 kg.cm² of motor
Nominal speed	3000 rpm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.600 cm
Package 1 Width	26.500 cm
Package 1 Length	60.100 cm
Package 1 Weight	13.644 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	4 238 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	96 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	4 139 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 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