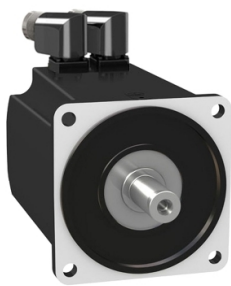


Product datasheet

Specifications



MH3 servomotor, 140mm, 1 stack, keyed Shaft, SinCos Multiturn 128, no Brake, angular, IP65

MH31401P12A2200

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	8.58 A
Continuous stall torque	10.3 N.m, 115...480 V, three phase
Continuous power	2640 W
Peak stall torque	39.9 N.m, 115...480 V, three phase
Nominal output power	0.98 W, 115 V 1.78 W, 230 V 2.64 W, 400 V 2.64 W, 480 V
Nominal torque	9.36 N.m for LXM52 at 7.82 mA, 115 V, three phase 8.5 N.m for LXM52 at 7.3 mA, 230 V, single phase 7.22 N.m for LXM52 at 6.35 mA, 400 V, three phase 7.22 N.m for LXM52 at 6.35 mA, 480 V, three phase 9.36 N.m for LXM62 at 7.82 mA, 115 V, single phase 8.5 N.m for LXM62 at 7.3 mA, 230 V, single phase 7.22 N.m for LXM62 at 6.35 mA, 400 V, three phase 7.22 N.m for LXM62 at 6.35 mA, 480 V, three phase
Nominal speed	1000 rpm for LXM52 at 7.82 mA, 115 V, single phase 2000 rpm for LXM52 at 7.3 mA, 230 V, single phase 3500 rpm for LXM52 at 6.35 mA, 400 V, three phase 3500 rpm for LXM52 at 6.35 mA, 480 V, three phase 1000 rpm for LXM62 at 7.82 mA, 115 V, single phase 2000 rpm for LXM62 at 7.3 mA, 230 V, single phase 3500 rpm for LXM62 at 6.35 mA, 400 V, three phase 3500 rpm for LXM62 at 6.35 mA, 480 V, three phase
Maximum current Irms	29.8 A
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 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	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	140 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.16 N.m/A at 120 °C
Back emf constant	77.41 V/krpm
Number of motor poles	5.0
Rotor inertia	16.46 kg.cm ²
Stator resistance	0.69 Ohm
Stator inductance	6.72 mH
Stator electrical time constant	9.7 ms
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Type of cooling	Natural convection
Length	152 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	8 kg
Sizing reference	MH31401P
Temperature copper hot	135 °C
Output current 3s peak	29.8 A
Inertia	0.0 kg.cm ² of brake 16.46 kg.cm ² of motor
Nominal speed	3500 rpm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	9.3 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	3 002 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	67 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 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]	2 933 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 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
--------	----

Use Again



Repack and remanufacture

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