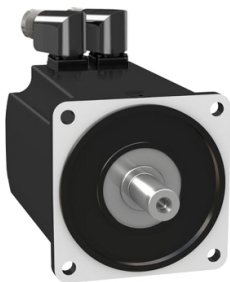


Product datasheet

Specifications



MH3 servomotor, 140mm, 3 stacks, smooth Shaft, SinCos Multiturn 128, no Brake, angular, IP65

MH31403P02A2200

⚠ Discontinued on: 14 Feb 2023

⚠ Discontinued

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	18 A
Continuous stall torque	24 N.m, 115...480 V, three phase
Continuous power	4750 W
Peak stall torque	75 N.m, 115...480 V, three phase
Nominal output power	1.78 W, 115 V 3.55 W, 230 V 4.75 W, 400 V 4.75 W, 480 V
Nominal torque	22.17 N.m for LXM52 at 18.00 mA, 115 V, three phase 19.3 N.m for LXM52 at 14.90 mA, 230 V, single phase 13.06 N.m for LXM52 at 10.42 mA, 400 V, three phase 13.06 N.m for LXM52 at 10.42 mA, 480 V, three phase 22.17 N.m for LXM62 at 18.00 mA, 115 V, single phase 19.3 N.m for LXM62 at 14.90 mA, 230 V, single phase 13.06 N.m for LXM62 at 10.42 mA, 400 V, three phase 13.06 N.m for LXM62 at 10.42 mA, 480 V, three phase
Nominal speed	750 rpm for LXM52 at 18.00 mA, 115 V, single phase 1750 rpm for LXM52 at 14.90 mA, 230 V, single phase 3500 rpm for LXM52 at 10.42 mA, 400 V, three phase 3500 rpm for LXM52 at 10.42 mA, 480 V, three phase 750 rpm for LXM62 at 18.00 mA, 115 V, single phase 1750 rpm for LXM62 at 14.90 mA, 230 V, single phase 3500 rpm for LXM62 at 10.42 mA, 400 V, three phase 3500 rpm for LXM62 at 10.42 mA, 480 V, three phase
Maximum current Irms	62.32 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	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	1.33 N.m/A at 120 °C
Back emf constant	85.9 V/krpm
Number of motor poles	10
Rotor inertia	47.54 kg.cm ²
Stator resistance	0.22 Ohm
Stator inductance	3 mH
Stator electrical time constant	13.6 ms
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1670 N at 3000 rpm
Type of cooling	Natural convection
Length	232 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
Net weight	16 kg
Sizing reference	MH31403P
Temperature copper hot	135 °C

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	17.5 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 >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
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	No