

Product datasheet

Specifications



servo motor MH3 140 11, 1Nm, no key, multi, no brake, IP65/
IP67, 3kRPM

MH31401P02A2200

⚠ Discontinued on: 9 Feb 2023

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EAN Code: 3606485396743

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	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
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
Net weight	8 kg
Sizing reference	MH31401P
Temperature copper hot	135 °C
compatible drive output current 3s peak 2	45 A

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	18 months
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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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) 3002

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

PVC free Yes

Use Again

Repack and remanufacture

Circularity Profile No need of specific recycling operations

Take-back No

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins