

Product datasheet

Specifications



servo motor MH3 100 8Nm,no key,single,no brake,IP65/IP67,4kRPM

MH31003P01A2200

⚠ Discontinued on: 9 Feb 2023

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EAN Code: 3606485396385

Main

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

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	7.69 A
Continuous stall torque	9 N.m, 115...480 V, three phase
Continuous power	3270 W
Peak stall torque	27 N.m, 115...480 V, three phase
Nominal output power	0.88 W, 115 V 2 W, 230 V 2.85 W, 400 V 3.27 W, 480 V
Nominal torque	8.45 N.m for LXM52 at 7.3 mA, 115 V, three phase 7.63 N.m for LXM52 at 6.7 mA, 230 V, single phase 6.8 N.m for LXM52 at 6.07 mA, 400 V, three phase 6.25 N.m for LXM52 at 5.64 mA, 480 V, three phase 8.45 N.m for LXM62 at 7.3 mA, 115 V, single phase 7.63 N.m for LXM62 at 6.7 mA, 230 V, single phase 6.8 N.m for LXM62 at 6.07 mA, 400 V, three phase 6.25 N.m for LXM62 at 5.64 mA, 480 V, three phase
Nominal speed	1000 rpm for LXM52 at 7.3 mA, 115 V, single phase 2500 rpm for LXM52 at 6.7 mA, 230 V, single phase 4000 rpm for LXM52 at 6.07 mA, 400 V, three phase 5000 rpm for LXM52 at 5.64 mA, 480 V, three phase 1000 rpm for LXM62 at 7.3 mA, 115 V, single phase 2500 rpm for LXM62 at 6.7 mA, 230 V, single phase 4000 rpm for LXM62 at 6.07 mA, 400 V, three phase 5000 rpm for LXM62 at 5.64 mA, 480 V, three phase
Maximum current Irms	26.71 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
IP degree of protection	IP65 standard

Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.17 N.m/A at 120 °C
Back emf constant	77.95 V/krpm
Number of motor poles	5.0
Rotor inertia	10.3 kg.cm ²
Stator resistance	1.08 Ohm
Stator inductance	5.23 mH
Stator electrical time constant	6.3 ms
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm
type of cooling	Natural convection
Length	192.6 mm
Centring collar diameter	95 mm
centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Net weight	6.5 kg
Sizing reference	MH31003P
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	21.0 cm
Package 1 Width	18.0 cm
Package 1 Length	35.6 cm
Package 1 Weight	6.7 kg

Logistical informations

Country of origin	DE
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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)	3215
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