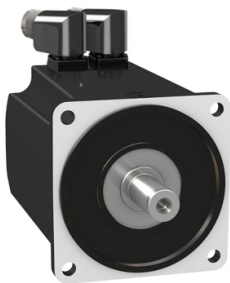


Product data sheet

Specifications



servo motor MH3 140
27,8Nm,key,multi,brake,IP65/
IP67,3kRPM

MH31403P02F2200

Product availability: Non-Stock - Not normally stocked in distribution facility

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
Phase	Three phase
Continuous stall current	18 A
Continuous stall torque	212.4 lbf.in (24 N.m), 115...480 V, three phase
Continuous power	4750 W
Peak stall torque	663.8 lbf.in (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	196.22 lbf.in (22.17 N.m) LXM52 18.00 mA, 115 V, three phase 170.8 lbf.in (19.3 N.m) LXM52 14.90 mA, 230 V, single phase 115.59 lbf.in (13.06 N.m) LXM52 10.42 mA, 400 V, three phase 115.59 lbf.in (13.06 N.m) LXM52 10.42 mA, 480 V, three phase 196.22 lbf.in (22.17 N.m) LXM62 18.00 mA, 115 V, single phase 170.8 lbf.in (19.3 N.m) LXM62 14.90 mA, 230 V, single phase 115.59 lbf.in (13.06 N.m) LXM62 10.42 mA, 400 V, three phase 115.59 lbf.in (13.06 N.m) LXM62 10.42 mA, 480 V, three phase
Nominal speed	750 rpm LXM52 18.00 mA, 115 V, single phase 1750 rpm LXM52 14.90 mA, 230 V, single phase 3500 rpm LXM52 10.42 mA, 400 V, three phase 3500 rpm LXM52 10.42 mA, 480 V, three phase 750 rpm LXM62 18.00 mA, 115 V, single phase 1750 rpm LXM62 14.90 mA, 230 V, single phase 3500 rpm LXM62 10.42 mA, 400 V, three phase 3500 rpm LXM62 10.42 mA, 480 V, three phase
Maximum current Irms	57.66 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
IP Degree of Protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	128 periods

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	With
Holding torque	203.6 lbf.in (23 N.m)
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)
Electrical Connection	Rotatable right-angled connectors
Torque constant	1.3 N.m/A 248 °F (120 °C)
Back emf constant	85.9 V/krpm
Number of motor poles	5.0
Rotor inertia	50.27 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 1000 rpm 1920 N 2000 rpm 1670 N 3000 rpm
Brake pull-in power	19 W
Type of cooling	Natural convection
Length	10.5 in (267 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	40.8 lb(US) (18.5 kg)
Sizing reference	MH31403P
Temperature copper hot	275 °F (135 °C)
Output current 3s peak	57.66 A
Inertia	2.73 kg.cm ² of brake 47.54 kg.cm ² of motor
Nominal speed	3000 rpm

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485397405
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.9 in (20.0 cm)

Package 1 Width	10.2 in (26.0 cm)
Package 1 Length	23.2 in (59.0 cm)
Package weight(Lbs)	38.6 lb(US) (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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	5 397 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	126 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]	5 267 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	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No