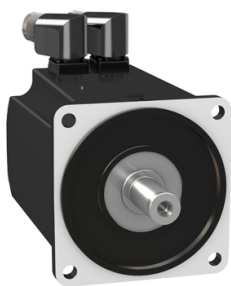


Product data sheet

Specifications



servo motor MH3 140
11,1Nm,key,single 16
lines,brake,IP65/IP67,3kRPM

MH31401P16F2200

⚠ Discontinued on: Oct 9, 2023

⚠ Discontinued

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	8.58 A
Continuous stall torque	91.2 lbf.in (10.3 N.m), 115...480 V, three phase
Continuous power	2640 W
Peak stall torque	353.1 lbf.in (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	82.84 lbf.in (9.36 N.m) LXM52 7.82 mA, 115 V, three phase 75.2 lbf.in (8.5 N.m) LXM52 7.3 mA, 230 V, single phase 63.90 lbf.in (7.22 N.m) LXM52 6.35 mA, 400 V, three phase 63.90 lbf.in (7.22 N.m) LXM52 6.35 mA, 480 V, three phase 82.84 lbf.in (9.36 N.m) LXM62 7.82 mA, 115 V, single phase 75.2 lbf.in (8.5 N.m) LXM62 7.3 mA, 230 V, single phase 63.90 lbf.in (7.22 N.m) LXM62 6.35 mA, 400 V, three phase 63.90 lbf.in (7.22 N.m) LXM62 6.35 mA, 480 V, three phase
Nominal speed	1000 rpm LXM52 7.82 mA, 115 V, single phase 2000 rpm LXM52 7.3 mA, 230 V, single phase 3500 rpm LXM52 6.35 mA, 400 V, three phase 3500 rpm LXM52 6.35 mA, 480 V, three phase 1000 rpm LXM62 7.82 mA, 115 V, single phase 2000 rpm LXM62 7.3 mA, 230 V, single phase 3500 rpm LXM62 6.35 mA, 400 V, three phase 3500 rpm LXM62 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	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Key width	0.3 in (8 mm)

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

IP Degree of Protection	IP65 standard
Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	16 periods
Holding brake	With
Holding torque	159.3 lbf.in (18 N.m)
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)
Electrical Connection	Rotatable right-angled connectors
Torque constant	1.2 N.m/A 248 °F (120 °C)
Back emf constant	77.41 V/krpm
Number of motor poles	10
Rotor inertia	17.96 kg.cm²
Stator resistance	0.69 Ohm
Stator inductance	6.72 mH
Stator electrical time constant	9.7 ms
Maximum radial force Fr	1930 N 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	7.4 in (187 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	22.7 lb(US) (10.3 kg)
Sizing reference	MH31401P
Temperature copper hot	275 °F (135 °C)

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485396965
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	7.9 in (20.0 cm)

Package 1 Length	23.2 in (59.0 cm)
Package weight(Lbs)	20.5 lb(US) (9.3 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	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations