

# Product datasheet

## Characteristics

# MH31003P12F2200

servo motor MH3 100 8Nm,key,multi,brake,IP65/ IP67,4kRPM



### Main

Range compatibility	PacDrive 3
Product or component type	AC servo motors
Device short name	MH3

### 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, 115 V 7.63 N.m, 230 V 6.8 N.m, 400 V 6.25 N.m, 480 V
Nominal speed	2500 rpm, 230 V 1000 rpm, 115 V 4000 rpm, 400 V 5000 rpm, 480 V
Maximum current Irms	26.71 A
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Key width	6 mm

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	Multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	9 N.m
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	10
Rotor inertia	10.3 kg.cm²
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
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	234.3 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
Product weight	8.15 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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