

# Product datasheet

## Characteristics

# MH31902P02F2200

## servo motor MH3 190 64,9Nm,no key,multi,brake,IP65/IP67,2kRPM



### Main

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

### Complementary

Maximum mechanical speed	3800 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	30.8 A
Continuous stall torque	48 N.m, 115...480 V, three phase
Continuous power	6260 W
Peak stall torque	220 N.m, 115...480 V, three phase
Nominal output power	6.07 W, 400 V 6.07 W, 480 V
Nominal torque	29 N.m, 400 V 29 N.m, 480 V
Nominal speed	2000 rpm, 400 V 2000 rpm, 480 V
Maximum current Irms	114 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
IP degree of protection	IP65 standard
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	60 N.m

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

Mounting support	International standard flange
Motor flange size	190 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.56 N.m/A at 120 °C
Back emf constant	108.3 V/krpm
Number of motor poles	10
Rotor inertia	144.8 kg.cm <sup>2</sup>
Stator resistance	0.15 Ohm
Stator inductance	3.86 mH
Stator electrical time constant	18.7 ms
Maximum radial force Fr	3200 N at 1000 rpm 3100 N at 2000 rpm 3000 N at 3000 rpm 2950 N at 4000 rpm
Brake pull-in power	25 W
Type of cooling	Natural convection
Length	308 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Product weight	48.9 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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