

# Product datasheet

## Characteristics

# MH30703P02A2200

servo motor MH3 070 3,1Nm,no key,multi,no  
brake,IP65/IP67,6kRPM



## Main

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

## Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	3.91 A
Continuous stall torque	3.4 N.m, 115...480 V, three phase
Continuous power	1540 W
Peak stall torque	10.2 N.m, 115...480 V, three phase
Nominal output power	0.42 W, 115 V 0.75 W, 230 V 1.32 W, 400 V 1.54 W, 480 V
Nominal torque	3.18 N.m, 115 V 2.96 N.m, 230 V 2.53 N.m, 400 V 2.26 N.m, 480 V
Nominal speed	1250 rpm, 115 V 2500 rpm, 230 V 5000 rpm, 400 V 6500 rpm, 480 V
Maximum current Irms	12.57 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
IP degree of protection	IP65 standard

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

Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	0.87 N.m/A at 120 °C
Back emf constant	55 V/krpm
Number of motor poles	10
Rotor inertia	1.67 kg.cm <sup>2</sup>
Stator resistance	2.65 Ohm
Stator inductance	8.64 mH
Stator electrical time constant	3.2 ms
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Type of cooling	Natural convection
Length	186 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Product weight	3 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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