Product data sheet
Characteristics

MH30701P02A2200
MH3 servomotor, 70mm, 1 stack, smooth Shaft, SinCos Multiturn 128, no Brake, angular, IP65



Main

Range compatibility	PacDrive 3
Device short name	MH3
Product or component type	Servo motor

Complementary

Maximum mechanical speed	8000 Rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.78 A
Continuous stall torque	1.4 N.M, 115...480 V, three phase
Continuous power	930 W
Peak stall torque	4.2 N.M, 115...480 V, three phase
Nominal output power	0.18 W, 115 V 0.42 W, 230 V 0.75 W, 400 V 0.93 W, 480 V
Nominal torque	1.38 N.M for LXM52 at 1.75 mA, 115 V, three phase 1.34 N.M for LXM52 at 1.75 mA, 230 V, single phase 1.3 N.M for LXM52 at 1.72 mA, 400 V, three phase 1.27 N.M for LXM52 at 1.7 mA, 480 V, three phase 1.38 N.M for LXM62 at 1.75 mA, 115 V, single phase 1.34 N.M for LXM62 at 1.75 mA, 230 V, single phase 1.3 N.M for LXM62 at 1.72 mA, 400 V, three phase 1.27 N.M for LXM62 at 1.7 mA, 480 V, three phase
Nominal speed	1250 rpm for LXM52 at 1.75 mA, 115 V, single phase 3000 rpm for LXM52 at 1.75 mA, 230 V, single phase 5500 rpm for LXM52 at 1.72 mA, 400 V, three phase 7000 rpm for LXM52 at 1.7 mA, 480 V, three phase 1250 rpm for LXM62 at 1.75 mA, 115 V, single phase 3000 rpm for LXM62 at 1.75 mA, 230 V, single phase 5500 rpm for LXM62 at 1.72 mA, 400 V, three phase 7000 rpm for LXM62 at 1.7 mA, 480 V, three phase
Maximum current Irms	5.97 A
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
IP degree of protection	IP65 standard
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	0.79 N.M/A at 120 °C
Back emf constant	50.72 V/Krpm
Number of motor poles	5.0
Rotor inertia	0.59 Kg.Cm²
Stator resistance	8.28 Ohm
Stator inductance	23.4 MH
Stator electrical time constant	2.8 Ms
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm
Type of cooling	Natural convection
Length	122 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
Net weight	1.6 Kg
Sizing reference	MH30701P
Temperature copper hot	135 °C
Output current 3s peak	5.97 A
Inertia	0.0 Kg.Cm² of brake 0.59 Kg.Cm² of motor
Nominal speed	5500 rpm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.100 Cm
Package 1 Width	19.500 Cm
Package 1 Length	39.800 Cm
Package 1 Weight	2.204 Kg

Offer Sustainability

Recyclability potential, in %	87
Total lifecycle Carbon footprint	583 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	13.814601506591968
Carbon footprint of the manufacturing phase [A1 to A3]	14 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	3.276270123253999
Carbon footprint of the distribution phase [A4]	3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.7563556700070693
Carbon footprint of the installation phase [A5]	0.8 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	562.3092308924922
Carbon footprint of the use phase [B2, B3, B4, B6]	562 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	2.365021026547517
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Total lifecycle Carbon footprint	583
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes

REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised