Product datasheet

Specification





servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, keyed shaft, without brake, IP54, 16bit encoder

BMH1402P16A2A

Main

Device short name	вмн
product or component type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	18.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 18.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	50.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 50.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal output power	3500 W for LXM32.D72N4 at 24 A, 400 V, three phase 3500 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal torque	12.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 12.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal speed	3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

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Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	16.83 A
Continuous power	4.44 W
Maximum current Irms	57.4 A for LXM32.D72N4
Maximum permanent current	57.4 A
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	40 mm
Feedback type	Single turn SinCos Hiperface

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Motor flange size	140 mm
Number of motor stacks	2
Torque constant	1.1 N.m/A at 120 °C
Back emf constant	70.7 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	32 kg.cm²
Stator resistance	0.23 Ohm at 20 °C
Stator inductance	3 mH at 20 °C
Stator electrical time constant	13 ms at 20 °C
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	192 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
net weight	12 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.000 cm
Package 1 Width	60.000 cm
Package 1 Length	27.000 cm
Package 1 Weight	13.776 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	105.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	171.000 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Certifications & Standards

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
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration