Product datasheet

Specification





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, keyed shaft, without brake, IP54, 16bit encoder

BMH2051P16A2A

Main

Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	3800 rpm	
Continuous stall torque	34.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 34.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	103.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 103.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	5400 W for LXM32.D72N4 at 24 A, 400 V, three phase 5400 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	25.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 25.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal speed	2000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2000 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

,	
Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	21.5 A
Continuous power	6.8 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	78.1 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Key width	70 mm
Feedback type	Single turn SinCos Hiperface

Motor flange size	205 mm	
Number of motor stacks	1	
Back emf constant	104 V/krpm at 120 °C	
Number of motor poles	10	
Rotor inertia	71.4 kg.cm²	
Stator resistance	0.3 Ohm at 20 °C	
Stator inductance	5.9 mH at 20 °C	
Stator electrical time constant	19.7 ms at 20 °C	
Maximum radial force Fr	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Type of cooling	Natural convection	
Length	321 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	
Net weight	33 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	40 cm
Package 1 Width	30 cm
Package 1 Length	79.5 cm
Package 1 Weight	37 kg
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	73.5 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	91 kg
Unit Type of Package 3	P06
Number of Units in Package 3	2
Package 3 Height	77 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	82.5 kg

Contractual warranty

Warranty

29-Aug-2024

18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations