Product datasheet

Specification





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, without brake, IP65, IP67, 16 multiturn encoder

BMH2051P27A2A

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	Smooth shaft
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn x 4096 turns
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	
Feedback type	Multiturn 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	36.0 cm
Package 1 Width	31.0 cm
Package 1 Length	58.0 cm
Package 1 Weight	39.0 kg

Contractual warranty

Warranty 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