Product datasheet





servo motor BMH, Lexium 32, 24Nm, 4000rpm, keyed shaft, without brake, IP54, 16bit encoder, straight

BMH1403P16A1A



! Discontinued on: 01-Nov-2020

Main

Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	24 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 24 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	71.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 71.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	4700 W for LXM32.D72N4 at 24 A, 400 V, three phase 4700 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	13.92 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 13.92 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	bility 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	Straight connectors	

Complementary

Range compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Network number of phases	Three phase	
Continuous stall current	18 A	
Continuous power	4.8 W	
Maximum current Irms	62.3 A for LXM32.D72N4	
Maximum permanent current	62.3 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	
Motor flange size	140 mm	
Number of motor stacks	3	
Torque constant	1.34 N.m/A at 120 °C	
Back emf constant	85.9 V/krpm at 120 °C	
Number of motor poles	10	
Rotor inertia	47.5 kg.cm²	
Stator resistance	0.22 Ohm at 20 °C	
Stator inductance	3 mH at 20 °C	
Stator electrical time constant	13.6 ms at 20 °C	
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1680 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Type of cooling	Natural convection	
Length	232 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	16 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.0 cm
Package 1 Width	26.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	16.3 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