Product datasheet

Specifications





servo motor BMH, Lexium 32, 24Nm, 4000rpm, untapped shaft, with brake, IP65, IP67, 16 multiturn encoder, 3 phases

BMH1403P27F2A

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	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	With	
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	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
Feedback type	Multiturn SinCos Hiperface

Holding torque	23 N.m holding brake
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	50.27 kg.cm ²
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
Brake pull-in power	19 W
Type of cooling	Natural convection
Length	267 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	18.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	18.83 kg

Contractual warranty

Warranty

18 months

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



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