



servo motor BMH, Lexium 32, 84Nm, 3800rpm, keyed shaft, with brake, IP54, 16bit encoder

BMH2053P16F2A

! Discontinued on: 30 Jun 2023

! Discontinued

Main

Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	3800 rpm	
Continuous stall torque	84 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 84 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	232 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 232 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	6500 W for LXM32.D72N4 at 24 A, 400 V, three phase 6500 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	52.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 52.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal speed	1200 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1200 rpm for LXM32.D72N4 at 24 A, 480 V, three phase	
Product compatibility	ity LXM32.D72N4 at 400480 V three phase	
Shaft end	Keyed	
IP degree of protection	IP54 standard	
Speed feedback resolution	32768 points/turn	
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	25.2 A
Continuous power	9.6 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	107.4 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	
Holding torque	80 N.m holding brake	
Motor flange size	205 mm	
Number of motor stacks	3	
Torque constant	3.5 N.m/A at 120 °C	
Back emf constant	218 V/krpm at 120 °C	
Number of motor poles	10	
Rotor inertia	206 kg.cm²	
Stator resistance	0.32 Ohm at 20 °C	
Stator inductance	6.9 mH at 20 °C	
Stator electrical time constant	21.6 ms at 20 °C	
Maximum radial force Fr	4500 N at 1000 rpm 3570 N at 2000 rpm 3120 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Brake pull-in power	40 W	
Type of cooling	Natural convection	
Length	538.5 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	71.9 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	73.0 cm
Package 1 Weight	75.0 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
②	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