Product datasheet

Specifications

servo motor BMH, Lexium 32, 62.5Nm, 3800rpm, untapped shaft, with brake, IP54, 16bit encoder, straight

BMH2052P06F1A

Discontinued

Discontinued on: 18 Apr 2024

To be end-of-service on: 18 Apr 2026

Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	62.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 62.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Peak stall torque	170 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 170 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	41.6 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 41.6 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal speed	1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	With
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	24.2 A
Continuous power	7.85 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	38 mm

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Shaft length	80 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	80 N.m holding brake
Motor flange size	205 mm
Number of motor stacks	2
Torque constant	2.6 N.m/A at 120 °C
Back emf constant	161 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	145 kg.cm²
Stator resistance	0.3 Ohm at 20 °C
Stator inductance	5.6 mH at 20 °C
Stator electrical time constant	18.7 ms at 20 °C
Maximum radial force Fr	4200 N at 1000 rpm 3330 N at 2000 rpm 2910 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	454.5 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	48.9 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	58.0 kg

Contractual warranty

Warranty	18 months

Sustainability

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Guide to assess a product's sustainability >

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