Product datasheet

Specifications

Main





(!) Discontinued

servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, with brake, IP54, 16bit encoder, straight

BMH2051P06F1A

! Discontinued on: 18 Apr 2024

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

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	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	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	Single turn SinCos Hiperface	
Holding torque	80 N.m holding brake	
Motor flange size	205 mm	
Number of motor stacks	1	
Back emf constant	104 V/krpm at 120 °C	
Number of motor poles	of motor poles 10	
Rotor inertia	87.4 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	
Brake pull-in power	40 W	
Type of cooling	Natural convection	
Length	370.5 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	37.9 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	58.0 cm
Package 1 Weight	43.0 kg

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

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