# Product data sheet





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, untapped shaft, with brake, IP54, 128bit encoder, straight

BMH2051P01F1A



! Discontinued on: 18/12/2023

! Discontinued

#### Main

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	131072 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	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 Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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	
<b>⊘</b>	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
<b>Environmental Disclosure</b>	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