# Product data sheet

Specifications





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, keyed shaft, without brake, IP54, 16bit encoder, straight

BMH2051P16A1A



! Discontinued on: Oct 9, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Main

Device short name	ВМН	
Product or Component Type	Servo motor	
Maximum mechanical speed	3800 rpm	
Continuous stall torque	304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Peak stall torque	915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Nominal output power	5400 W LXM32.D72N4 24 A, 400 V, three phase 5400 W LXM32.D72N4 24 A, 480 V, three phase	
Nominal torque	228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Nominal speed	2000 rpm LXM32.D72N4 24 A, 400 V, three phase 2000 rpm LXM32.D72N4 24 A, 480 V, three phase	
Product compatibility	LXM32.D72N4 400480 V three phase	
Shaft end	Keyed	
IP Degree of Protection	IP54 standard	
Speed feedback resolution	32768 points/turn	
Holding brake	Without	
Mounting Support	International standard flange	
Electrical Connection	Straight connectors	

### Complementary

Range Compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Phase	Three phase	
Continuous stall current	21.5 A	
Continuous power	6.8 W	
Maximum current Irms	72 A LXM32.D72N4	
Maximum permanent current	78.1 A	
Second shaft	Without second shaft end	
Shaft diameter	1.5 in (38 mm)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Shaft length	3.1 in (80 mm)	
Key width	2.8 in (70 mm)	
Feedback type	Single turn SinCos Hiperface	
Motor flange size	8.07 in (205 mm)	
Number of motor stacks	1	
Back emf constant	104 V/krpm 248.0000000000 °F (120 °C)	
Number of motor poles	10	
Rotor inertia	71.4 kg.cm²	
Stator resistance	0.3 Ohm 68.0000000000 °F (20 °C)	
Stator inductance	5.9 mH 68.0000000000 °F (20 °C)	
Stator electrical time constant	19.7 ms 68.00000000000 °F (20 °C)	
Maximum radial force Fr	3730 N 1000 rpm 2960 N 2000 rpm 2580 N 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Type of cooling	Natural convection	
Length	12.6 in (321 mm)	
Centring collar diameter	7.09 in (180 mm)	
Centring collar depth	0.2 in (4 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.6 in (14 mm)	
Circle diameter of the mounting holes	ter of the mounting 8.5 in (215 mm)	
Net Weight	72.8 lb(US) (33 kg)	

## Ordering and shipping details

Category	US1PC5318282	
Discount Schedule	PC53	
GTIN	3606485202730	
Returnability	No	
Country of origin	DE	

### **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.2 in (36.0 cm)
Package 1 Width	12.2 in (31.0 cm)
Package 1 Length	22.8 in (58.0 cm)
Package 1 Weight	86.0 lb(US) (39.0 kg)

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

<b>②</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>⊘</b>	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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov