Product data sheet

Specifications





servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, keyed shaft, without brake, IP65, IP67, 16 multiturn encoder, straight

BMH2051P37A1A

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

Price*: 6,795.00 USD

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	IP65 standard IP67 with IP67 kit	
Speed feedback resolution	32768 points/turn x 4096 turns	
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	Multiturn 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.cm ²
Stator resistance	0.3 Ohm 68.000000000 °F (20 °C)
Stator inductance	5.9 mH 68.000000000 °F (20 °C)
Stator electrical time constant	19.7 ms 68.0000000000 °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	8.5 in (215 mm)
Net Weight	72.8 lb(US) (33 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485202914
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

Sustainability Screen Premium

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
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