Product data sheet

Specification





servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, untapped shaft, with brake, IP65, IP67, 16 multiturn encoder, straight

BMH1402P27F1A

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

Price*: 3,637.50 USD

Main

Device short name	ВМН	
Product or Component Type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Peak stall torque	445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Nominal output power	3500 W LXM32.D72N4 24 A, 400 V, three phase 3500 W LXM32.D72N4 24 A, 480 V, three phase	
Nominal torque	108.0 lbf.in (12.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 108.0 lbf.in (12.2 N.m) LXM32.D72N4 24 A, 480 V, three phase	
Nominal speed	3000 rpm LXM32.D72N4 24 A, 400 V, three phase 3000 rpm LXM32.D72N4 24 A, 480 V, three phase	
Product compatibility	LXM32.D72N4 400480 V three phase	
Shaft end	Smooth shaft	
IP Degree of Protection	IP65 standard IP67 with IP67 kit	
Speed feedback resolution	32768 points/turn x 4096 turns	
Holding brake	With	
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	16.83 A
Continuous power	4.44 W
Maximum current Irms	57.4 A LXM32.D72N4
Maximum permanent current	57.4 A
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 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	2.0 in (50 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	159.3 lbf.in (18 N.m) holding brake
Motor flange size	5.5 in (140 mm)
Number of motor stacks	2
Torque constant	1.1 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	70.7 V/krpm 248.0000000000 °F (120 °C)
Number of motor poles	10
Rotor inertia	33.5 kg.cm ²
Stator resistance	0.23 Ohm 68.0000000000 °F (20 °C)
Stator inductance	3 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	13 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	8.9 in (227 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	31.5 lb(US) (14.3 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485207889
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.874 in (20.000 cm)
Package 1 Width	10.827 in (27.500 cm)
Package 1 Length	23.228 in (59.000 cm)
Package 1 Weight	33.069 lb(US) (15.000 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	6

Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	31.496 in (80.000 cm)
Package 2 Length	23.622 in (60.000 cm)
Package 2 Weight	216.053 lb(US) (98.000 kg)

Contractual warranty

Warranty 18 months

Sustainability Green 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

Ø	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