Product data sheet

Specification





servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, untapped shaft, without brake, IP65, IP67, 128bit encoder

BMH1002P21A2A

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

Price*: 1,415.00 USD

Main

Product Or Component Type	Servo motor			
Device Short Name	вмн			
Maximum Mechanical Speed	6000 rpm			
Continuous Stall Torque	54.87 lbf.in (6.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D18N4 6 A, 480 V, three phase			
Peak Stall Torque	162.85 lbf.in (18.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 162.85 lbf.in (18.4 N.m) LXM32.D18N4 6 A, 480 V, three phase			
Nominal Output Power	1600 W LXM32.D18N4 6 A, 400 V, three phase 1600 W LXM32.D18N4 6 A, 480 V, three phase			
Nominal Torque	34.52 lbf.in (3.9 N.m) LXM32.D18N4 6 A, 400 V, three phase 34.52 lbf.in (3.9 N.m) LXM32.D18N4 6 A, 480 V, three phase			
Nominal Speed	4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase			
Product Compatibility	LXM32.D18N4 400480 V three phase			
Shaft End	Smooth shaft			
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit			
Speed Feedback Resolution	131072 points/turn			
Holding Brake	Without			
Mounting Support	International standard flange			
Electrical Connection	Rotatable right-angled connectors			

Complementary

Range Compatibility	Lexium 32	
[Us] Rated Supply Voltage	480 V	
Phase	Three phase	
Continuous Stall Current	5.04 A	
Continuous Power	2.36 W	
Maximum Current Irms	18 A LXM32.D18N4	
Maximum Permanent Current	18.23 A	
Second Shaft	Without second shaft end	
Shaft Diameter	0.75 in (19 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	1.57 in (40 mm)		
Feedback Type	Single turn SinCos Hiperface		
Motor Flange Size	3.94 in (100 mm)		
Number Of Motor Stacks	2		
Torque Constant	1.2 N.m/A 248 °F (120 °C)		
Back Emf Constant	77 V/krpm 248 °F (120 °C)		
Number Of Motor Poles	10		
Rotor Inertia	6.28 kg.cm²		
Stator Resistance	1.51 Ohm 68 °F (20 °C)		
Stator Inductance	7.5 mH 68 °F (20 °C)		
Stator Electrical Time Constant	5 ms 68 °F (20 °C)		
Maximum Radial Force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm		
Maximum Axial Force Fa	0.2 x Fr		
Type Of Cooling	Natural convection		
Length	6.32 in (160.6 mm)		
Centring Collar Diameter	3.74 in (95 mm)		
Centring Collar Depth	0.14 in (3.5 mm)		
Number Of Mounting Holes	4		
Mounting Holes Diameter	0.35 in (9 mm)		
Circle Diameter Of The Mounting Holes	4.53 in (115 mm)		
Net Weight	10.85 lb(US) (4.92 kg)		

Ordering and shipping details

Category	US1PC5318282		
Discount Schedule	PC53		
Gtin	3606485200422		
Returnability	No		
Country Of Origin	DE		

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	8.66 in (22.0 cm)	
Package 1 Width	7.87 in (20.0 cm)	
Package 1 Length	15.75 in (40.0 cm)	
Package 1 Weight	11.51 lb(US) (5.22 kg)	

Contractual warranty

Warranty 18 months



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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

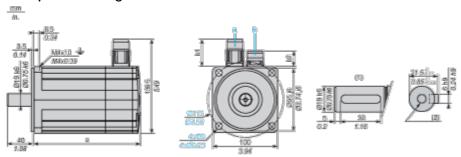
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific 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			

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Dimensions Drawings

Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight o	Straight connectors Rotatable angled connectors		a (with a st bunder)	a (with harles)	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

Dimensions in in.

Straight o	traight connectors Rotatable angled connectors		a (without broke)	a (with hardsa)	
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	6.29	7.95

Product data sheet

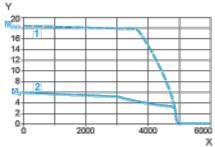
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

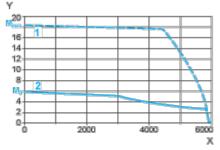


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque