Product data sheet

Specification





AC servo motor BSH, Lexium 32, 27.8N.m, 3000rpm, keyed shaft, with brake, IP65

BSH1403T32F2P

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

Price*: 3,444.25 USD

Main

Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	4800 rpm					
Continuous Stall Torque	246.05 lbf.in (27.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 246.05 lbf.in (27.8 N.m) LXM32.D72N4 24 A, 480 V, three phase					
Peak Stall Torque	798.34 lbf.in (90.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 798.34 lbf.in (90.2 N.m) LXM32.D72N4 24 A, 480 V, three phase					
Nominal Output Power	4100 W LXM32.D72N4 24 A, 400 V, three phase 4100 W LXM32.D72N4 24 A, 480 V, three phase					
Nominal Torque	114.17 lbf.in (12.9 N.m) LXM32.D72N4 24 A, 400 V, three phase 114.17 lbf.in (12.9 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 400 V three phase LXM32.D72N4 480 V three phase					
Shaft End	Keyed					
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit					
Speed Feedback Resolution	131072 points/turn x 4096 turns					
Holding Brake	With					
Mounting Support	International standard					
Electrical Connection	Rotatable right-angled connectors					

Complementary

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Range Compatibility	Lexium 32			
Supply Voltage Max	480 V			
Phase	Three phase			
Continuous Stall Current	22.3 A			
Maximum Continuous Power	3.3 W			
Maximum Current Irms	72 A LXM32.D72N4			
Maximum Permanent Current	81.3 A			
Switching Frequency	8 kHz			
Second Shaft	Without second shaft end			

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

Shaft Diameter	0.94 in (24 mm)				
Shaft Length	1.97 in (50 mm)				
Key Width	1.57 in (40 mm)				
Feedback Type	Multiturn SinCos Hiperface				
Holding Torque	318.63 lbf.in (36 N.m) holding brake				
Motor Flange Size	5.51 in (140 mm)				
Number Of Motor Stacks	3				
Torque Constant	1.58 N.m/A 248 °F (120 °C)				
Back Emf Constant	105 V/krpm 248 °F (120 °C)				
Number Of Motor Poles	10				
Rotor Inertia	14.48 kg.cm²				
Stator Resistance	0.4 Ohm 68 °F (20 °C)				
Stator Inductance	5.1 mH 68 °F (20 °C)				
Stator Electrical Time Constant	12.75 ms 68 °F (20 °C)				
Maximum Radial Force Fr	1780 N 3000 rpm 2030 N 2000 rpm 2560 N 1000 rpm				
Maximum Axial Force Fa	0.2 x Fr				
Brake Pull-In Power	26 W				
Type Of Cooling	Natural convection				
Length	14.39 in (365.5 mm)				
Centring Collar Diameter	5.12 in (130 mm)				
Centring Collar Depth	0.14 in (3.5 mm)				
Number Of Mounting Holes	4				
Mounting Holes Diameter	0.43 in (11 mm)				
Circle Diameter Of The Mounting 6.50 in (165 mm) Holes					
Net Weight	50.71 lb(US) (23 kg)				

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485201597
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE			
Number Of Units In Package 1	1			
Package 1 Height	11.81 in (30.0 cm)			
Package 1 Width	8.66 in (22.0 cm)			
Package 1 Length	28.15 in (71.5 cm)			
Package 1 Weight	55.12 lb(US) (25.0 kg)			

Unit Type Of Package 2	\$06				
Number Of Units In Package 2	4				
Package 2 Height	28.94 in (73.5 cm)				
Package 2 Width	23.62 in (60.0 cm)				
Package 2 Length	31.50 in (80.0 cm)				
Package 2 Weight	239.20 lb(US) (108.5 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



Certifications & Standards

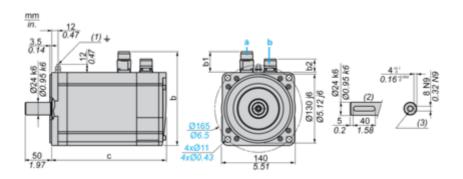
Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)				
Eu Rohs Directive					
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific waste collection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

BSH1403T32F2P

Dimensions Drawings

Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- **b**: Power supply for servo motor encoder
- (1) M4 screw
- (2) Shaft end, keyed slot (optional)
- (3) For screws M8 x 19 mm/M8 x 0.75 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors			a (itha at hanalaa)	- (i4h h	
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
192.5	54	25.5	198.5	60	39.5	328	366

Dimensions in in.

Straig	Straight connectors Rotatable angled connectors			a (with a state and sa)	a (with harles)		
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
7.57	2.12	1.00	7.81	2.36	1.55	12.91	14.40

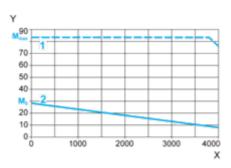
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

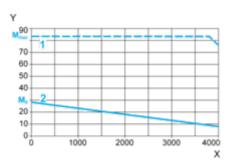


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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