

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

BSH1403T32F2P

Main

Product Or Component Type	Servo motor				
Device Short Name	BSH				
Maximum Mechanical Speed	4800 rpm				
Continuous Stall Torque	27.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 27.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase				
Peak Stall Torque	90.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 90.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase				
Nominal Output Power	4100 W for LXM32.D72N4 at 24 A, 400 V, three phase 4100 W for LXM32.D72N4 at 24 A, 480 V, three phase				
Nominal Torque	12.9 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 12.9 N.m for LXM32.D72N4 at 24 A, 480 V, three phase				
Nominal Speed	3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase				
Product Compatibility	LXM32.D72N4 at 400 V three phase LXM32.D72N4 at 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

oompromentary				
Range Compatibility	Lexium 32			
Supply Voltage Max	480 V			
Network Number Of Phases	Three phase			
Continuous Stall Current	22.3 A			
Maximum Continuous Power	3.3 W			
Maximum Current Irms	72 A for LXM32.D72N4			
Maximum Permanent Current	81.3 A			
Switching Frequency	8 kHz			
Second Shaft	Without second shaft end			
Shaft Diameter	24 mm			
Shaft Length	50 mm			

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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	22.0 cm
Package 1 Length	71.5 cm
Package 1 Weight	25.0 kg
Unit Type Of Package 2	S06
Number Of Units In Package 2	4
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	108.5 kg

Contractual warranty

Warranty 18 months

Sustainability

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





Yes



Pvc Free

Certifications & Standards

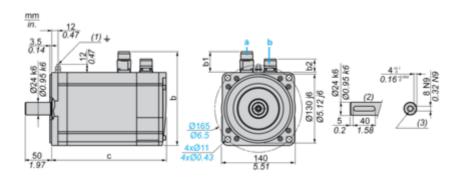
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

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)	a (with harden)	
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	raight connectors Rotatable angled connectors		a (itha atha aadaa)	د داده المانين			
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

Product data sheet

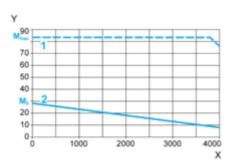
BSH1403T32F2P

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

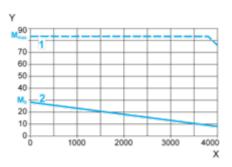


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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