

servo motor BSH, Lexium 32, 32.1N.m, 3000rpm, 140mm, untapped shaft, Sincos multi turn, without brake, IP50

BSH1404P02A2P

Main

IVIAIII						
Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	4000 rpm					
Continuous Stall Torque	33.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 33.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 32.1 N.m for LXM05AD57N4, 380480 V, three phase 32.1 N.m for LXM05BD57N4, 380480 V, three phase 32.1 N.m for LXM05CD57N4, 380480 V, three phase					
Peak Stall Torque	103.6 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 103.6 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 63.09 N.m for LXM05AD57N4, 380480 V, three phase 63.09 N.m for LXM05BD57N4, 380480 V, three phase 63.09 N.m for LXM05CD57N4, 380480 V, three phase					
Nominal Output Power	5000 W for LXM32.D72N4 at 24 A, 400 V, three phase 5000 W for LXM32.D72N4 at 24 A, 480 V, three phase 3400 W for LXM05AD57N4, 380480 V, three phase 3400 W for LXM05BD57N4, 380480 V, three phase 3400 W for LXM05CD57N4, 380480 V, three phase					
Nominal Torque	19 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 19 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 10.8 N.m for LXM05AD57N4, 380480 V, three phase 10.8 N.m for LXM05BD57N4, 380480 V, three phase 10.8 N.m for LXM05CD57N4, 380480 V, three phase					
Nominal Speed	2500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase 3000 rpm for LXM05AD57N4, 380480 V, three phase 3000 rpm for LXM05BD57N4, 380480 V, three phase 3000 rpm for LXM05CD57N4, 380480 V, three phase					
Product Compatibility	LXM05AD57N4 at 380480 V three phase LXM05BD57N4 at 380480 V three phase LXM05CD57N4 at 380480 V three phase LXM32.D72N4 at 400 V three phase LXM32.D72N4 at 480 V three phase					
Shaft End	Untapped					
Ip Degree Of Protection	IP50 standard					
Speed Feedback Resolution	131072 points/turn x 4096 turns					
Holding Brake	Without					
Mounting Support	International standard flange					
Electrical Connection	Rotatable right-angled connectors					

Complementary

Range Compatibility	Lexium 05 Lexium 32
Supply Voltage Max	480 V

Network Number Of Phases	Three phase				
Continuous Stall Current	21.3 A				
Maximum Continuous Power	4.33 W				
Maximum Current Irms	72 A for LXM32.D72N4 95.6 A for LXM05AD57N4 95.6 A for LXM05BD57N4 95.6 A for LXM05CD57N4				
Maximum Permanent Current	95.6 A				
Switching Frequency	8 kHz				
Second Shaft	Without second shaft end				
Shaft Diameter	24 mm				
Shaft Length	50 mm				
Feedback Type	Multiturn SinCos Hiperface				
Motor Flange Size	140 mm				
Number Of Motor Stacks	4				
Torque Constant	1.57 N.m/A at 120 °C				
Back Emf Constant	104 V/krpm at 120 °C				
Number Of Motor Poles	10				
Rotor Inertia	23.7 kg.cm²				
Stator Resistance	0.28 Ohm at 20 °C				
Stator Inductance	3.9 mH at 20 °C				
Stator Electrical Time Constant	13.93 ms at 20 °C				
Maximum Radial Force Fr	1840 N at 3000 rpm 2110 N at 2000 rpm 2660 N at 1000 rpm				
Maximum Axial Force Fa	0.2 x Fr				
Type Of Cooling	Natural convection				
Length	382.5 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	26 kg				

Packing Units

Unit Type Of Package 1	PCE				
Number Of Units In Package 1	1				
Package 1 Height	27.0 cm				
Package 1 Width	27.0 cm				
Package 1 Length	60.6 cm				
Package 1 Weight	18.5 kg				

Contractual warranty

Warranty

Apr 19, 2024

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

Mercury Free

Rohs Exemption Information

Yes



Pvc Free

Certifications & Standards

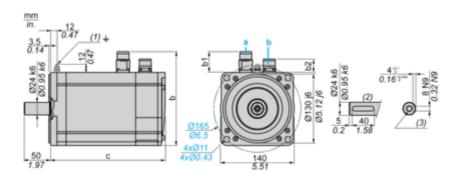
REACh Declaration				
Pro-active compliance (Product out of EU RoHS legal scope)				
China RoHS declaration				
Product Environmental Profile				
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
No need of specific recycling operations				
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) 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 F			Rotatable angled connectors			a (itha at hanalaa)	a (with hardsa)
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
192.5	54	25.5	198.5	60	39.5	383	421

Dimensions in in.

Straig	Straight connectors Rotatable angled connectors			c (without brake) c (with bra			
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
7.57	2.12	1.00	7.81	2.36	1.55	15.07	16.57

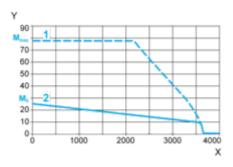
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

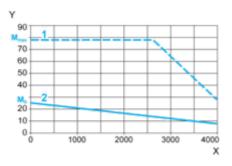


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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