

AC servo motor BSH, Lexium 32, 32.1N.m, 3000rpm, untapped shaft, without brake, IP50

BSH1404P02A1P

! Discontinued on: Jun 30, 2023

#### ! Discontinued

### Main

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 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 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 LXM05D57N4, 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	Straight connectors					

# Complementary

Range Compatibility	Lexium 32 Lexium 05				
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.cm <sup>2</sup>				
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 25, 2024

18 months

## Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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**

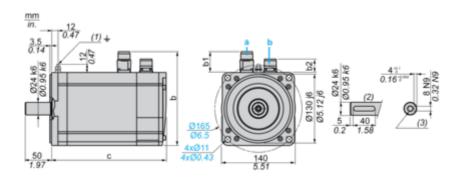
Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)				
Eu Rohs Directive					
China Rohs Regulation	China RoHS declaration				
<b>Environmental Disclosure</b>	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific waste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

### **BSH1404P02A1P**

### **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 haralaa)	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.

Straight connectors Rotatable angled connec			onnectors	c (without brake) c (with brak			
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

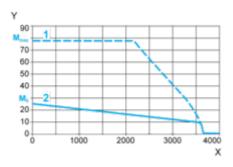
### **BSH1404P02A1P**

#### Performance Curves

### 400 V 3-Phase Supply Voltage

### **Torque/Speed Curves**

Servo motor with LXM32•D72N4 servo drive

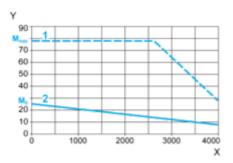


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

### 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