Specifications



# AC servo motor BSH, Lexium 05, 11.1N.m, 1500rpm, keyed shaft, without brake, IP65

BSH1401P32A2A

## Main

Nominal Speed	2500 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 3000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase 3000 rpm for LXM05AD34N4, 380480 V, three phase 3000 rpm for LXM05BD34N4, 380480 V, three phase 3000 rpm for LXM05CD34N4, 380480 V, three phase 1500 rpm for LXM15MD28N4, 230 V, three phase 1500 rpm for LXM15MD28N4, 230 V, three phase 2500 rpm for LXM15MD28N4, 400 V, three phase 2500 rpm for LXM15MD28N4, 400 V, three phase 3000 rpm for LXM15MD28N4, 480 V, three phase 3000 rpm for LXM15MD28N4, 480 V, three phase				
Product Compatibility	LXM15LD28M3 at 230 V three phase LXM05AD34N4 at 380480 V three phase LXM05BD34N4 at 380480 V three phase				
	LXM05CD34N4 at 380480 V three phase LXM15MD28N4 at 400 V three phase LXM15MD28N4 at 480 V three phase LXM15MD40N4 at 400 V three phase LXM15MD40N4 at 480 V three phase LXM15MD28N4 at 230 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	Without				
Mounting Support International standard flange					
Electrical Connection Rotatable right-angled connectors					

# Complementary

Lexium 15				
Lexium 05				
Lexium 32				
480 V				
Three phase				
7.8 A				
3.6 W				
20.8 A for LXM15LD28M3				
20.8 A for LXM15MD28N4				
20.8 A for LXM15MD40N4				
20.8 A for LXM05AD34N4				
20.8 A for LXM05BD34N4				
20.8 A for LXM05CD34N4				
20.8 A for LXM32.D30N4				
20.8 A				
8 kHz				
Without second shaft end				
50 mm				
40 mm				
Multiturn SinCos Hiperface				
140 mm				
1				
1.43 N.m/A at 120 °C				
100 V/krpm at 120 °C				

Number Of Motor Poles	10				
Rotor Inertia	7.41 kg.cm <sup>2</sup>				
Stator Resistance	1.41 Ohm at 20 °C				
Stator Inductance	15.6 mH at 20 °C				
Stator Electrical Time Constant	11.06 ms at 20 °C				
Maximum Radial Force Fr	1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm				
Maximum Axial Force Fa	0.2 x Fr				
Type Of Cooling	Natural convection				
Length	217.5 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	11.9 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	48.2 cm			
Package 1 Weight	8.0 kg			

# **Contractual warranty**

Warranty

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 >



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Transparency RoHS/REACh

## Well-being performance



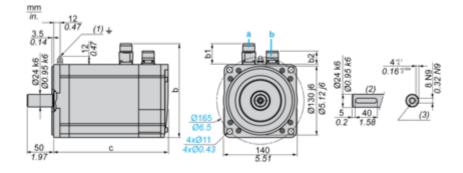
## **Certifications & Standards**

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				

#### **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

Straig	ght conn	ectors	Rotatable	e angled co	onnectors		o (with broko)	
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)	
178	39.5	25.5	178	39.5	39.5	218	256	

Dimensions in in.

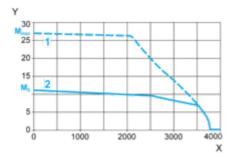
Straight connectors			Rotatable angled connectors				brake) c (with brake)	
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)	
7.00	1.55	1.00	7.00	1.55	1.55	8.58	10.07	

#### **Performance Curves**

#### 400 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D30N4 servo drive



 $\boldsymbol{X}$  Speed in rpm

Y Torque in Nm

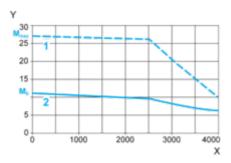
1 Peak torque

2 Continuous torque

#### 480 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D30N4 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque