

servo motor BSH, Lexium 05, 0.9N.m, 4000rpm, 55mm, untapped shaft, Sincos single turn, with brake, IP65

BSH0552P21F2A

Main

Product Or Component Type	Servo motor			
Device Short Name	BSH			
Maximum Mechanical Speed	9000 rpm			
Continuous Stall Torque	0.8 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase			
	0.8 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase			
	0.9 N.m for LXM05CU70M2, 200240 V, single phase			
	0.9 N.m for LXM05AD10M2, 200240 V, single phase			
	0.9 N.m for LXM05BD10M2, 200240 V, single phase			
	0.9 N.m for LXM05CD10M2, 200240 V, single phase			
	0.9 N.m for LXM05AD10M3X, 200240 V, three phase			
	0.9 N.m for LXM05BD10M3X, 200240 V, three phase			
	0.9 N.m for LXM05CD10M3X, 200240 V, three phase			
	0.9 N.m for LXM15LD13M3, 230 V, single phase			
	0.9 N.m for LXM15LD13M3, 230 V, three phase			
	0.9 N.m for LXM15LU60N4, 230 V, three phase			
	0.9 N.m for LXM05AD14N4, 380480 V, three phase			
	0.9 N.m for LXM05BD14N4, 380480 V, three phase 0.9 N.m for LXM05CD14N4, 380480 V, three phase			
Peak Stall Torque	2.5.N.m. for IVM22 IICONA at 4.5.A. 400 V. three above			
reak Stail Torque	2.5 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase			
	2.5 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 2.5 N.m for LXM15LD13M3, 230 V, single phase			
	2.17 N.m for LXM05CU70M2, 200240 V, single phase			
	2.7 N.m for LXM05C070M2, 200240 V, single phase			
	2.7 N.m for LXM05BD10M2, 200240 V, single phase			
	2.7 N.m for LXM05CD10M2, 200240 V, single phase			
	2.5 N.m for LXM15LD13M3, 230 V, three phase			
	2.26 N.m for LXM15LU60N4, 230 V, three phase			
	2.7 N.m for LXM05AD10M3X, 200240 V, three phase			
	2.7 N.m for LXM05AD14N4, 380480 V, three phase			
	2.7 N.m for LXM05BD10M3X, 200240 V, three phase			
	2.7 N.m for LXM05BD14N4, 380480 V, three phase			
	2.7 N.m for LXM05CD10M3X, 200240 V, three phase			
	2.7 N.m for LXM05CD14N4, 380480 V, three phase			
Nominal Output Power	400 W for LXM32.U60N4 at 1.5 A, 400 V, three phase			
	400 W for LXM32.U60N4 at 1.5 A, 480 V, three phase			
	250 W for LXM05AD10M2, 200240 V, single phase			
	250 W for LXM05BD10M2, 200240 V, single phase			
	250 W for LXM05CD10M2, 200240 V, single phase			
	250 W for LXM05CU70M2, 200240 V, single phase			
	310 W for LXM15LD13M3, 230 V, single phase			
	250 W for LXM05AD10M3X, 200240 V, three phase			
	250 W for LXM05AD14N4, 380480 V, three phase			
	250 W for LXM05BD10M3X, 200240 V, three phase			
	250 W for LXM05BD14N4, 380480 V, three phase			
	250 W for LXM05CD10M3X, 200240 V, three phase			
	250 W for LXM05CD14N4, 380480 V, three phase			
	310 W for LXM15LD13M3, 230 V, three phase			
	310 W for LXM15LU60N4, 230 V, three phase			

Nominal Torque	0.65 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase
	0.65 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase
	0.75 N.m for LXM15LD13M3, 230 V, single phase
	2.17 N.m for LXM05CU70M2, 200240 V, single phase
	2.7 N.m for LXM05AD10M2, 200240 V, single phase 2.7 N.m for LXM05BD10M2, 200240 V, single phase
	2.7 N.m for LXM05CD10M2, 200240 V, single phase
	0.75 N.m for LXM15LD13M3, 230 V, three phase
	0.75 N.m for LXM15LU60N4, 230 V, three phase
	2.7 N.m for LXM05AD10M3X, 200240 V, three phase
	2.7 N.m for LXM05AD14N4, 380480 V, three phase
	2.7 N.m for LXM05BD10M3X, 200240 V, three phase
	2.7 N.m for LXM05BD14N4, 380480 V, three phase
	2.7 N.m for LXM05CD10M3X, 200240 V, three phase 2.7 N.m for LXM05CD14N4, 380480 V, three phase
Nominal Speed	6000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase
Nominal Opecu	6000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase
	4000 rpm for LXM15LD13M3, 230 V, single phase
	4000 rpm for LXM15LU60N4, 230 V, three phase
	3000 rpm for LXM05CU70M2, 200240 V, single phase
	3000 rpm for LXM05AD10M2, 200240 V, single phase
	3000 rpm for LXM05BD10M2, 200240 V, single phase
	3000 rpm for LXM05CD10M2, 200240 V, single phase
	3000 rpm for LXM05AD10M3X, 200240 V, three phase 3000 rpm for LXM05AD14N4, 380480 V, three phase
	3000 rpm for LXM05BD10M3X, 200240 V, three phase
	3000 rpm for LXM05BD14N4, 380480 V, three phase
	3000 rpm for LXM05CD10M3X, 200240 V, three phase
	3000 rpm for LXM05CD14N4, 380480 V, three phase
	4000 rpm for LXM15LD13M3, 230 V, three phase
Product Compatibility	LXM05AD10M2 at 200240 V single phase
	LXM05BD10M2 at 200240 V single phase
	LXM05CD10M2 at 200240 V single phase
	LXM05CU70M2 at 200240 V single phase
	LXM15LD13M3 at 230 V single phase
	LXM15LU60N4 at 230 V three phase
	LXM32.U60N4 at 400 V three phase LXM32.U60N4 at 480 V three phase
	LXM05AD10M3X at 200240 V three phase
	LXM05BD10M3X at 200240 V three phase
	LXM05CD10M3X at 200240 V three phase
	LXM15LD13M3 at 230 V three phase
	LXM05AD14N4 at 380480 V three phase
	LXM05BD14N4 at 380480 V three phase
	LXM05CD14N4 at 380480 V three phase
Shaft End	Untapped
Ip Degree Of Protection	IP65 standard
	IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn
Holding Brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors
Complementary	
Range Compatibility	Lexium 05
	Lexium 15
	Lexium 32
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	1.2 A

Maximum Current Irms	5.9 A for LXM15LD13M3 5.9 A for LXM05CU70M2 4.8 A for LXM05AD10M2 4.8 A for LXM05AD10M3X 4.8 A for LXM05AD14N4 4.8 A for LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M4				
Maximum Permanent Current	4.8 A				
Switching Frequency	8 kHz				
Second Shaft	Without second shaft end				
Shaft Diameter	9 mm				
Shaft Length	20 mm				
Feedback Type	Single turn SinCos Hiperface				
Holding Torque	0.8 N.m holding brake				
Motor Flange Size	55 mm				
Number Of Motor Stacks	2				
Torque Constant	0.7 N.m/A at 120 °C				
Back Emf Constant	40 V/krpm at 120 °C				
Number Of Motor Poles	6				
Rotor Inertia	0.1173 kg.cm²				
Stator Resistance	17.4 Ohm at 20 °C				
Stator Inductance	35.3 mH at 20 °C				
Stator Electrical Time Constant	2.03 ms at 20 °C				
Maximum Radial Force Fr	190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm				
Maximum Axial Force Fa	0.2 x Fr				
Brake Pull-In Power	10 W				
Type Of Cooling	Natural convection				
Length	181 mm				
Centring Collar Diameter	40 mm				
Centring Collar Depth	2 mm				
Number Of Mounting Holes	4				
Mounting Holes Diameter	5.5 mm				
Circle Diameter Of The Mounting Holes	63 mm				
Net Weight	1.6 kg				

Packing Units

Unit Type Of Package 1 PCE

Number Of Units In Package 1	1
Package 1 Height	12.3 cm
Package 1 Width	12.8 cm
Package 1 Length	37.7 cm
Package 1 Weight	1.25 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 >

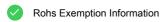




Transparency RoHS/REACh

Well-being performance





Yes



Pvc Free

Certifications & Standards

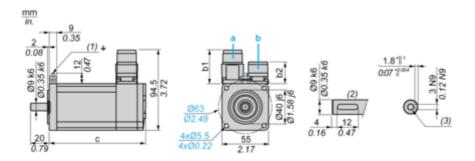
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste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

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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 screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

Straight c	onnectors	Rotatable angled connectors		- (i4b4 bl)	a (with hands)
b	b1	b	b1	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	154.5	181

Dimensions in in.

Difference in in.						
Straight c	onnectors	Rotatable angled connectors		a (ithatha.alaa)	- (i4h h)	
b	b1	b	b1	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.08	7.12	

Product data sheet

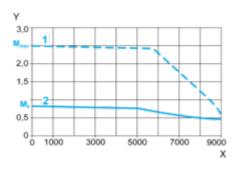
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

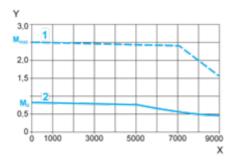


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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