

servo motor BSH, Lexium 05, 1.3N.m, 3000rpm, 55mm, keyed shaft, Sincos single turn, with brake, 3 phases, IP50

BSH0553P11F2A

Main

Product Or Component Type	Servo motor			
Device Short Name	BSH			
Maximum Mechanical Speed	9000 rpm			
Continuous Stall Torque	1.05 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.05 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 1.3 N.m for LXM05AD10M2, 200240 V, single phase 1.3 N.m for LXM05BD10M2, 200240 V, single phase 1.3 N.m for LXM05D10M2, 200240 V, single phase 1.3 N.m for LXM05D10M3X, 200240 V, three phase 1.3 N.m for LXM05BD10M3X, 200240 V, three phase 1.3 N.m for LXM05BD10M3X, 200240 V, three phase 1.3 N.m for LXM05CD10M3X, 200240 V, three phase 1.3 N.m for LXM15LD13M3, 230 V, single phase 1.3 N.m for LXM15LD13M3, 230 V, three phase 1.3 N.m for LXM15LD10N4, 400 V, three phase 1.3 N.m for LXM05AD14N4, 380480 V, three phase 1.3 N.m for LXM05BD14N4, 380480 V, three phase 1.3 N.m for LXM05BD14N4, 380480 V, three phase 1.3 N.m for LXM05CD14N4, 380480 V, three phase			
Peak Stall Torque	3.5 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 3.5 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 2.7 N.m for LXM15LD13M3, 230 V, single phase 3.18 N.m for LXM05AD10M2, 200240 V, single phase 3.18 N.m for LXM05BD10M2, 200240 V, single phase 3.18 N.m for LXM05CD10M2, 200240 V, single phase 2.7 N.m for LXM15LD13M3, 230 V, three phase 3.87 N.m for LXM15LD13M3, 230 V, three phase 3.18 N.m for LXM05AD10M3X, 200240 V, three phase 3.87 N.m for LXM05AD14N4, 380480 V, three phase 3.18 N.m for LXM05BD14N4, 380480 V, three phase 3.87 N.m for LXM05BD14N4, 380480 V, three phase 3.18 N.m for LXM05BD14N4, 380480 V, three phase 3.18 N.m for LXM05CD10M3X, 200240 V, three phase 3.18 N.m for LXM05CD10M3X, 200240 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 340 W for LXM15LD13M3, 230 V, three phase 340 W for LXM15LD13M3, 230 V, single phase 350 W for LXM05AD10M2, 200240 V, single phase 350 W for LXM05BD10M2, 200240 V, single phase 350 W for LXM05CD10M2, 200240 V, single phase 350 W for LXM05AD10M3X, 200240 V, three phase 350 W for LXM05AD14N4, 380480 V, three phase 350 W for LXM05BD10M3X, 200240 V, three phase 350 W for LXM05BD14N4, 380480 V, three phase 350 W for LXM05CD14N4, 380240 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		
	1.08 N.m for LXM15LD13M3, 230 V, single phase		
	1.1 N.m for LXM05AD10M2, 200240 V, single phase		
	1.1 N.m for LXM05BD10M2, 200240 V, single phase		
	1.1 N.m for LXM05CD10M2, 200240 V, single phase 0.8 N.m for LXM15LD10N4, 400 V, three phase		
	1.08 N.m for LXM15LD13M3, 230 V, three phase		
	1.1 N.m for LXM05AD10M3X, 200240 V, three phase		
	1.1 N.m for LXM05AD14N4, 380480 V, three phase		
	1.1 N.m for LXM05BD10M3X, 200240 V, three phase		
	1.1 N.m for LXM05BD14N4, 380480 V, three phase		
	1.1 N.m for LXM05CD10M3X, 200240 V, three phase		
	1.1 N.m for LXM05CD14N4, 380480 V, three phase		
Nominal Speed	6000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase		
	6000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three 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		
	3000 rpm for LXM15LD13M3, 230 V, single phase		
	3000 rpm for LXM15LD13M3, 230 V, three phase		
	8000 rpm for LXM15LD10N4, 400 V, three phase		
Description of the state of the			
Product Compatibility	LXM05AD10M2 at 200240 V single phase		
	LXM05BD10M2 at 200240 V single phase		
	LXM05CD10M2 at 200240 V single phase LXM15LD13M3 at 230 V single 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		
	LXM15LD10N4 at 400 V three phase		
Shaft End	Keyed		
Ip Degree Of Protection	IP50 standard		
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	1.7 A		
Maximum Continuous Power	0.97 W		

Maximum Current Irms	8.7 A for LXM15LD13M3 8.7 A for LXM05AD10N4 6.5 A for LXM05AD10M2 6.5 A for LXM05AD10M3X 6.5 A for LXM05AD14N4 6.5 A for LXM05BD10M2 6.5 A for LXM05BD10M3X 6.5 A for LXM05BD10M3X			
	6.5 A for LXM05CD10M2			
	6.5 A for LXM05CD10M3X 6.5 A for LXM05CD14N4 6 A for LXM32.U60N4			
Maximum Permanent Current	6.5 A			
Switching Frequency	8 kHz			
Second Shaft	Without second shaft end			
Shaft Diameter	9 mm			
Shaft Length	20 mm			
Key Width	12 mm			
Feedback Type	Single turn SinCos Hiperface			
Holding Torque	0.8 N.m holding brake			
Motor Flange Size	55 mm			
Number Of Motor Stacks	3			
Torque Constant	0.7 N.m/A at 120 °C			
Back Emf Constant	41 V/krpm at 120 °C			
Number Of Motor Poles	6			
Rotor Inertia	0.1553 kg.cm²			
Stator Resistance	10.4 Ohm at 20 °C			
Stator Inductance	25 mH at 20 °C			
Stator Electrical Time Constant	2.4 ms at 20 °C			
Maximum Radial Force Fr	190 N at 8000 rpm 200 N at 7000 rpm 210 N at 6000 rpm 230 N at 5000 rpm 240 N at 4000 rpm 270 N at 3000 rpm 310 N at 2000 rpm 390 N at 1000 rpm			
Maximum Axial Force Fa	0.2 x Fr			
Brake Pull-In Power	10 W			
Type Of Cooling	Natural convection			
Length	203 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	1.9 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	1.55 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 >

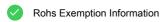




Transparency RoHS/REACh

Well-being performance





Yes



Pvc Free

Certifications & Standards

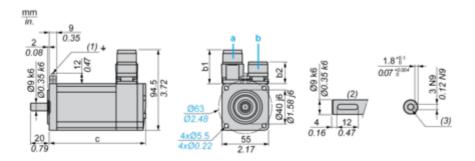
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific 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 connectors		Rotatable angled connectors		- (i4b4 bl)	- (with hards)
b	b1	b	b1	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	176.5	203

Dimensions in in

Difficiono in in.						
Straight connectors		Rotatable angled connectors		- (:4h4 hl)	a (with harden)	
b	b1	b	b1	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.94	7.99	

Product data sheet

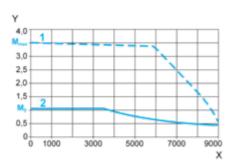
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

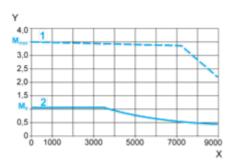


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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