

servo motor BSH, Lexium 05, 0.9N.m, 4000rpm, 55mm, untapped shaft, Sincos multi turn, with brake, IP50

BSH0552P02F2A

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 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 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			
	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				
	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	IP50 standard				
Speed Feedback Resolution	131072 points/turn x 4096 turns				
Holding Brake	With				
Mounting Support	International standard flange				
Electrical Connection	Rotatable right-angled connectors				
Complementary					
Range Compatibility	Lexium 15				
	Lexium 32 Lexium 05				
Supply Voltage May					
Supply Voltage Max	480 V				
Network Number Of Phases	Three phase				
Continuous Stall Current	1.2 A				
Maximum Continuous Power	0.67 W				

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 LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3 4.8 A for LXM05CD10M3 4.8 A for LXM05CD14N4 4.8 A for LXM32.U60N4			
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	Multiturn 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

Mercury Free

Rohs Exemption Information

Yes



Pvc Free

Certifications & Standards

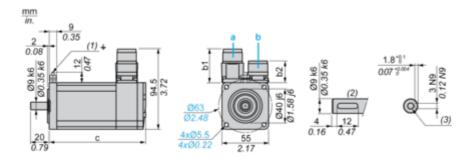
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific 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		- (- (th. b
b	b1	b	b1	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	154.5	181

Dimensions in in

Difficiono in in.						
Straight connectors		Rotatable angled connectors		- (:4h4 hl)	- (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

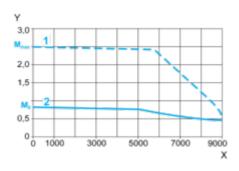
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

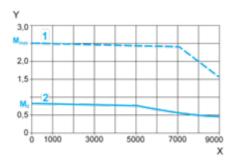


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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