

AC servo motor BSH, Lexium 05, 1.3N.m, 3000rpm, untapped shaft, with brake, IP50

BSH0553P02F1A

! Discontinued on: Jun 30, 2023

! Discontinued

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 LXM05CD10M2, 200240 V, single phase 1.3 N.m for LXM05AD10M3X, 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 LXM05CD14N4, 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 LXM15LD10N4, 400 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 LXM05BD10M3X, 200240 V, three phase 3.87 N.m for LXM05BD14N4, 380480 V, three phase 3.18 N.m for LXM05CD14N4, 380480 V, three phase 3.18 N.m for LXM05CD14N4, 380480 V, three phase 3.18 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 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 LXM05CD10M3X, 200240 V, three phase 350 W for LXM05CD10M3X, 200240 V, three phase 350 W for LXM05CD10M3X, 200240 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 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 LXM05BD14N4, 380480 V, three phase 1.1 N.m for LXM05CD14N4, 380240 V, three phase 1.1 N.m for LXM05CD14N4, 380240 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				
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 LXM05AD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM05AD14N4 at 380480 V three phase LXM05AD14N4 at 380480 V three phase LXM05CD14N4 at 400 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	Straight connectors				
Complementary					
Range Compatibility	Lexium 15 Lexium 32 Lexium 05				
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 LXM15LD10N4			
	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 LXM05BD14N4			
	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			
occond onait	without second snaπ end			
Shaft Diameter	0.mm			
Shart Diameter	9 mm			
Shoft Longth	00			
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	3			
Torque Constant	0.7 N.m/A at 120 °C			
Back Emf Constant	41 V/krpm at 120 °C			
Zuon Ziiii Gonotaiii	41 V/NIpini at 120 C			
Number Of Motor Poles	0			
Number of Motor Foles	6			
Datas Israelia	0.45501 2			
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			
Maximum Hadiai Force II				
	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			
	ooo it at 1000 ipiii			
Maximum Axial Force Fa	0.2 x Fr			
	V.			
Brake Pull-In Power	40 W			
brake Full-III Fower	10 W			
Type Of Cooling	Natural convection			
Length	203 mm			
Centring Collar Diameter	40 mm			
Centring Collar Depth	2 mm			
Number Of Mounting Holes	A			
Number Of Mounting Holes	4			
Manualina Hali Di :				
Mounting Holes Diameter	5.5 mm			
Circle Diameter Of The Mounting	63 mm			
Holes				
Net Weight	1 0 kg			
THE THOISILE	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 >

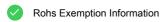




Transparency RoHS/REACh

Well-being performance





Yes



Pvc Free

Certifications & Standards

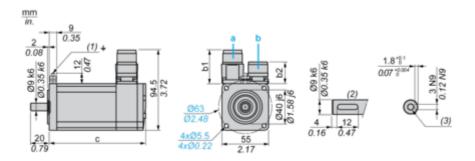
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste 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		onnectors	Rotatable angled connectors		a (with a st bunks)	(د ا حاد ا طائند ۱
b		b1	b	b1	c (without brake)	c (with brake)
39.5	5	25.5	39.5	39.5	176.5	203

Dimensions in in.

Differisions in in.					
Straight c	onnectors	Rotatable angled connectors		- (itht 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

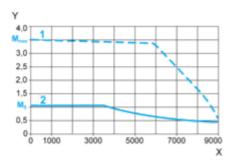
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



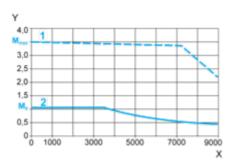
- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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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