

AC servo motor BSH, Lexium 05, 0.9N.m, 6000rpm, untapped shaft, without brake, IP50

BSH0552T01A1A

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.U90M2 at 3 A, 115 V, single phase 0.8 N.m for LXM32.U90M2 at 3 A, 230 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 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, single phase 0.77 N.m for LXM05CU70M2, 200240 V, single phase 0.9 N.m for LXM05AD10F1, 110120 V, single phase 0.9 N.m for LXM05AD17F1, 110120 V, single phase 0.9 N.m for LXM05BD10F1, 110120 V, single phase 0.9 N.m for LXM05BD17F1, 110120 V, single phase 0.9 N.m for LXM05BD17F1, 110120 V, single phase 0.9 N.m for LXM05CD10F1, 110120 V, single phase 0.9 N.m for LXM05CD10F1, 110120 V, single phase			
Peak Stall Torque	1.9 N.m for LXM32.U90M2 at 3 A, 115 V, single phase 2.5 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.5 N.m for LXM05LD13M3, 230 V, single phase 1.31 N.m for LXM05CU70M2, 200240 V, single phase 1.77 N.m for LXM05AD10F1, 110120 V, single phase 1.77 N.m for LXM05AD10M2, 200240 V, single phase 2.7 N.m for LXM05AD17F1, 110120 V, single phase 1.77 N.m for LXM05BD10F1, 110120 V, single phase 1.77 N.m for LXM05BD10F1, 110120 V, single phase 2.7 N.m for LXM05BD10M2, 200240 V, single phase 2.7 N.m for LXM05BD17F1, 110120 V, single phase 1.77 N.m for LXM05CD10F1, 110120 V, single phase 1.77 N.m for LXM05CD17F1, 110120 V, single phase 2.7 N.m for LXM05CD17F1, 110120 V, single phase 1.77 N.m for LXM05CD17F1, 110120 V, single phase 1.77 N.m for LXM05CD17F1, 110120 V, single phase 1.78 N.m for LXM05D10M3X, 200240 V, three phase 1.79 N.m for LXM05BD10M3X, 200240 V, three phase 1.77 N.m for LXM05BD10M3X, 200240 V, three phase 1.77 N.m for LXM05BD10M3X, 200240 V, three phase			
Nominal Output Power	250 W for LXM32.U90M2 at 3 A, 115 V, single phase 450 W for LXM32.U90M2 at 3 A, 230 V, single phase 240 W for LXM05CU70M2, 200240 V, single phase 250 W for LXM05AD10F1, 110120 V, single phase 250 W for LXM05AD10F1, 110120 V, single phase 250 W for LXM05BD10F1, 110120 V, single phase 250 W for LXM05BD17F1, 110120 V, single phase 250 W for LXM05BD17F1, 110120 V, single phase 250 W for LXM05CD10F1, 110120 V, single phase 250 W for LXM05CD10F1, 110120 V, single phase 450 W for LXM05CD17F1, 110120 V, single phase 450 W for LXM05AD10M2, 200240 V, single phase 450 W for LXM05D10M2, 200240 V, single phase 450 W for LXM05D10M3X, 200240 V, three phase 450 W for LXM05D10M3X, 200240 V, three phase 450 W for LXM05D10M3X, 200240 V, three phase 450 W for LXM05CD10M3X, 200240 V, three phase 450 W for LXM05CD10M3X, 200240 V, three phase			

Nominal Torque	0.77 N.m for LXM32.U90M2 at 3 A, 115 V, single phase				
	0.74 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 0.72 N.m for LXM15LD13M3, 230 V, single phase				
	0.77 N.m for LXM05CU70M2, 200240 V, single phase				
	0.9 N.m for LXM05AD10F1, 110120 V, single phase				
	0.9 N.m for LXM05AD10M2, 200240 V, single phase				
	0.9 N.m for LXM05AD17F1, 110120 V, single phase 0.9 N.m for LXM05BD10F1, 110120 V, single phase				
	0.9 N.m for LXM05BD10M2, 200240 V, single phase				
	0.9 N.m for LXM05BD17F1, 110120 V, single phase				
	0.9 N.m for LXM05CD10F1, 110120 V, single phase				
	0.9 N.m for LXM05CD10M2, 200240 V, single phase				
	0.9 N.m for LXM05CD17F1, 110120 V, single phase 0.68 N.m for LXM15LD13M3, 230 V, three 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				
Nominal Speed	3000 rpm for LXM32.U90M2 at 3 A, 115 V, single phase				
	6000 rpm for LXM32.U90M2 at 3 A, 230 V, single phase				
	3000 rpm for LXM05AD10F1, 110120 V, single phase				
	3000 rpm for LXM05BD10F1, 110120 V, single phase				
	3000 rpm for LXM05CD10F1, 110120 V, single phase 3000 rpm for LXM05CU70M2, 200240 V, single phase				
	6000 rpm for LXM05AD10M2, 200240 V, single phase				
	6000 rpm for LXM05BD10M2, 200240 V, single phase				
	6000 rpm for LXM05CD10M2, 200240 V, single phase				
	6000 rpm for LXM05AD10M3X, 200240 V, three phase				
	6000 rpm for LXM05BD10M3X, 200240 V, three phase 6000 rpm for LXM05CD10M3X, 200240 V, three phase				
	8000 rpm for LXM15LD13M3, 230 V, three phase				
	3000 rpm for LXM05AD17F1, 110120 V, single phase				
	3000 rpm for LXM05BD17F1, 110120 V, single phase				
	3000 rpm for LXM05CD17F1, 110120 V, single phase				
	6000 rpm for LXM15LD13M3, 230 V, single phase				
Product Compatibility	LXM05AD10F1 at 110120 V single phase				
	LXM05AD10M2 at 200240 V single phase				
	LXM05AD17F1 at 110120 V single phase				
	LXM05BD10F1 at 110120 V single phase				
	LXM05BD10M2 at 200240 V single phase LXM05BD17F1 at 110120 V single phase				
	LXM05CD10F1 at 110120 V single phase				
	LXM05CD10M2 at 200240 V single phase				
	LXM05CD17F1 at 110120 V single phase				
	LXM05CU70M2 at 200240 V single phase				
	LXM15LD13M3 at 230 V single phase				
	LXM32.U90M2 at 115 V single phase LXM32.U90M2 at 230 V single 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				
Shaft End	Untapped				
Ip Degree Of Protection	IP50 standard				
Speed Feedback Resolution	131072 points/turn				
Holding Brake	Without				
Mounting Support	International standard flange				
Electrical Connection	Straight connectors				
Complementen					
Complementary					
Range Compatibility	Lexium 05				
	Lexium 32				
	Lexium 15				
Supply Voltage Max	480 V				
Network Number Of Phases	Three phase				
Continuous Stall Current	2.2 A				

Maximum Continuous Power	0.67 W		
Maximum Current Irms	6 A for LXM32.U90M2 at 115 V 8.8 A for LXM32.U90M2 at 230 V 10.3 A for LXM05AD10F1 8.8 A for LXM05AD17F1 8.8 A for LXM05AD17F1 8.8 A for LXM05AD10M2 8.8 A for LXM05AD10M3X 8.8 A for LXM05AD10M3X 8.8 A for LXM05BD10F1 8.8 A for LXM05BD10F1 8.8 A for LXM05BD10M2 8.8 A for LXM05BD10M2 8.8 A for LXM05BD10M2 8.8 A for LXM05BD10M2 8.8 A for LXM05BD10M3 8.8 A for LXM05DD10M3X 8.8 A for LXM05CD10F1 8.8 A for LXM05CD10F1 8.8 A for LXM05CD10M3X 8.8 A for LXM05CD10M3X		
Maximum Permanent Current	8.8 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		
Motor Flange Size	55 mm		
Number Of Motor Stacks	2		
Torque Constant	0.36 N.m/A at 120 °C		
Back Emf Constant	22 V/krpm at 120 °C		
Number Of Motor Poles	6		
Rotor Inertia	0.096 kg.cm²		
Stator Resistance	5.2 Ohm at 20 °C		
Stator Inductance	10.6 mH at 20 °C		
Stator Electrical Time Constant	2.04 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		
Type Of Cooling	Natural convection		
Length	154.4 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	1.5 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	1.74 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

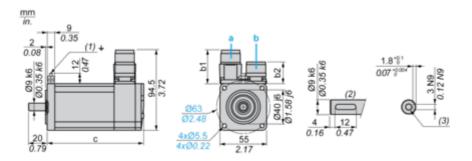
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific 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	Straight connectors Rotatable angled connector		led connectors	- (itht hl)	a (veith handea)
b	b1	b	b1	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	154.5	181

Dimensions in in.

Straight connectors		Rotatable angled connectors		- (itht hl)	(د ا ما ما الله د د د د د د د د د د د د د د د د د د
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

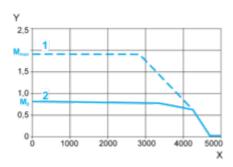
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive

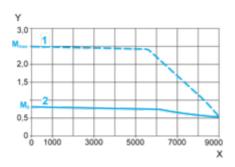


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



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