

AC servo motor BSH, Lexium 05, 0.5N.m, 8000rpm, untapped shaft, with brake, IP65

BSH0551T22F2A

Main

Product Or Component Type	Servo motor		
Device Short Name			
	BSH		
Maximum Mechanical Speed	9000 rpm		
Continuous Stall Torque	0.5 N.m for LXM32.U90M2 at 3 A, 115 V, single phase 0.5 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase 0.5 N.m for LXM05CU70M2, 200240 V, single phase 0.5 N.m for LXM05AD10F1, 110120 V, single phase 0.5 N.m for LXM05AD10M2, 200240 V, single phase 0.5 N.m for LXM05AD10M2, 200240 V, single phase 0.5 N.m for LXM05BD10F1, 110120 V, single phase 0.5 N.m for LXM05BD10M2, 200240 V, single phase 0.5 N.m for LXM05CD10F1, 110120 V, single phase 0.5 N.m for LXM05CD10M2, 200240 V, single phase 0.5 N.m for LXM05AD10M3X, 200240 V, three phase 0.5 N.m for LXM05BD10M3X, 200240 V, three phase 0.5 N.m for LXM05BD10M3X, 200240 V, three phase 0.5 N.m for LXM05CD10M3X, 200240 V, three phase		
Peak Stall Torque	1.5 N.m for LXM32.U90M2 at 3 A, 115 V, single phase 1.4 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase 1.08 N.m for LXM05CU70M2, 200240 V, single phase		
	1.4 N.m for LXM05AD10F1, 110120 V, single phase 1.4 N.m for LXM05AD10M2, 200240 V, single phase 1.4 N.m for LXM05BD10F1, 110120 V, single phase 1.4 N.m for LXM05BD10M2, 200240 V, single phase 1.4 N.m for LXM05CD10F1, 110120 V, single phase 1.4 N.m for LXM05CD10M2, 200240 V, single phase 1.4 N.m for LXM05CD10M2, 200240 V, single phase 1.24 N.m for LXM15LD13M3, 230 V, three phase 1.4 N.m for LXM05AD10M3X, 200240 V, three phase 1.4 N.m for LXM05BD10M3X, 200240 V, three phase 1.4 N.m for LXM05CD10M3X, 200240 V, three phase		
Nominal Output Power	150 W for LXM32.U90M2 at 3 A, 115 V, single phase 300 W for LXM32.U45M2 at 1.5 A, 230 V, single phase 150 W for LXM05AD10F1, 110120 V, single phase 150 W for LXM05BD10F1, 110120 V, single phase 150 W for LXM05CD10F1, 110120 V, single phase 150 W for LXM05CD10F1, 110120 V, single phase 150 W for LXM05CU70M2, 200240 V, single phase 270 W for LXM05AD10M2, 200240 V, single phase 270 W for LXM05BD10M2, 200240 V, single phase 270 W for LXM05CD10M2, 200240 V, single phase 270 W for LXM05AD10M3X, 200240 V, three phase 270 W for LXM05BD10M3X, 200240 V, three phase 270 W for LXM05CD10M3X, 200240 V, three phase 340 W for LXM05CD10M3X, 200240 V, three phase		
Nominal Torque	0.49 N.m for LXM32.U90M2 at 3 A, 115 V, single phase 0.45 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase 0.43 N.m for LXM05AD10M2, 200240 V, single phase 0.43 N.m for LXM05BD10M2, 200240 V, single phase 0.43 N.m for LXM05CD10M2, 200240 V, single phase 0.46 N.m for LXM05AD10F1, 110120 V, single phase 0.46 N.m for LXM05BD10F1, 110120 V, single phase 0.46 N.m for LXM05CD10F1, 110120 V, single phase 0.46 N.m for LXM05CD10F1, 110120 V, single phase 0.46 N.m for LXM05CD10F1, 200240 V, single phase 0.41 N.m for LXM05CU70M2, 200240 V, single phase 0.43 N.m for LXM05AD10M3X, 200240 V, three phase 0.43 N.m for LXM05BD10M3X, 200240 V, three phase 0.43 N.m for LXM05BD10M3X, 200240 V, three phase 0.43 N.m for LXM05CD10M3X, 200240 V, three phase		

3000 rpm for LXM32.U90M2 at 3 A, 115 V, single phase				
6000 rpm for LXM32.U45M2 at 1.5 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				
LXM05AD10F1 at 110120 V single phase				
LXM05AD10M2 at 200240 V single phase				
LXM05BD10F1 at 110120 V single phase LXM05BD10M2 at 200240 V single phase				
LXM05CD10F1 at 110120 V single phase				
LXM05CD10M2 at 200240 V single phase				
LXM05CU70M2 at 200240 V single phase				
LXM32.U90M2 at 115 V single phase				
LXM32.U45M2 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				
Untapped				
IP65 standard IP67 with IP67 kit				
131072 points/turn x 4096 turns				
With				
International standard flange				
Rotatable right-angled connectors				
Ludwy 05				
Lexium 05				
Lexium 05 Lexium 32 Lexium 15				
Lexium 32				
Lexium 32 Lexium 15				
Lexium 32 Lexium 15 480 V				
Lexium 32 Lexium 15 480 V Three phase				
Lexium 32 Lexium 15 480 V Three phase 1.4 A				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05CU70M2				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3X				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3X 5.4 A for LXM05BD10F1				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3 5.4 A for LXM05AD10M3 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3 5.4 A for LXM05BD10M1				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3X 5.4 A for LXM05BD10M3X 5.4 A for LXM05CD10M3				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3X 5.4 A for LXM05BD10M3X 5.4 A for LXM05BD10M3X 5.4 A for LXM05CD10M3 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M3				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3X 5.4 A for LXM05BD10M3X 5.4 A for LXM05CD10M3				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3 5.4 A for LXM05AD10M3 5.4 A for LXM05AD10M3 5.4 A for LXM05AD10M3 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3 5.4 A for LXM05BD10M3 5.4 A for LXM05CD10F1 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M3 5.4 A for LXM32.U90M2				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3X 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M3 5.4 A for LXM32.U45M2				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05BD10M3 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3 5.4 A for LXM05CD10M3 5.4 A for LXM32.U90M2 4.5 A for LXM32.U90M2 5.4 A				
Lexium 32 Lexium 15 480 V Three phase 1.4 A 0.45 W 6.2 A for LXM15LD13M3 5.4 A for LXM05AD10F1 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M2 5.4 A for LXM05AD10M3X 5.4 A for LXM05BD10F1 5.4 A for LXM05BD10D1 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M2 5.4 A for LXM05BD10M3X 5.4 A for LXM05CD10M3X 5.4 A for LXM05CD10M3 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M2 5.4 A for LXM05CD10M3 5.4 A for LXM05CD10M3 5.4 A for LXM05CD10M3 5.4 A for LXM32.U90M2 4.5 A for LXM32.U95M2 5.4 A				

Feedback Type	Multiturn SinCos Hiperface		
Holding Torque	0.8 N.m holding brake		
Motor Flange Size	55 mm		
Number Of Motor Stacks	1		
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	0.0803 kg.cm²		
Stator Resistance	12.2 Ohm at 20 °C		
Stator Inductance	20.8 mH at 20 °C		
Stator Electrical Time Constant	1.7 ms at 20 °C		
Maximum Radial Force Fr	170 N at 8000 rpm 180 N at 7000 rpm 190 N at 6000 rpm 200 N at 5000 rpm 220 N at 4000 rpm 240 N at 3000 rpm 270 N at 2000 rpm 340 N at 1000 rpm		
Maximum Axial Force Fa	0.2 x Fr		
Brake Pull-In Power	10 W		
Type Of Cooling	Natural convection		
Length	159 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	1.3 kg		

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	950.0 g

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

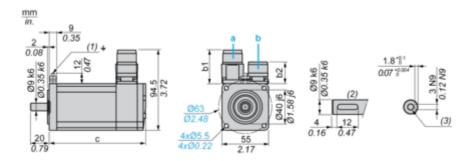
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific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

Dimonolone in thin						
Straight connectors		Rotatable angled connectors		- (itht h-n-l)	(معامدها طفندد)	
b	b1	b	b1	c (without brake)	c (with brake)	
39.5	25.5	39.5	39.5	132.5	159	

Dimensions in in

Differisions in in.					
Straight connectors		Rotatable angled connectors		- (itht h-n-l)	(مدامه الطنين)
b	b1	b	b1	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	5.21	6.25

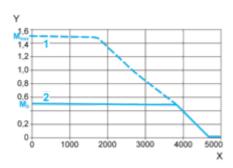
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



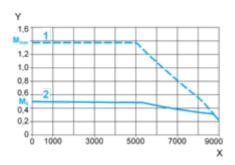
- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U45M2 servo drive



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