

AC servo motor BSH, Lexium 05, 0.9N.m, 4000rpm, keyed shaft, with brake, IP65

BSH0552P32F2A

Main

Product Or Component Type	Servo motor BSH			
Device Short Name				
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 IVM22 IICONA at 4.5.A. 400 V. three above			
reak Stail 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 LXM05C070M2, 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, 200400 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	·			
——————————————————————————————————————	Keyed			
Ip Degree Of Protection	IP65 standard			
	IP67 with IP67 kit			
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 32			
	Lexium 05			
	Lexium 15			
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 LXM05AD14M3X 4.8 A for LXM05AD14N4 4.8 A for LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M3X 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD10M3X 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		
Key Width	12 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

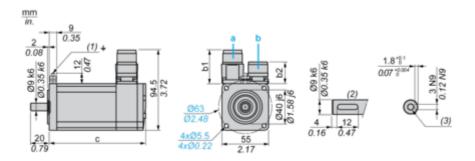
Warranty 18 months

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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		a (ithatha.alaa)	a (with hardsa)	
b	b1	b	b1	c (without brake)	c (with brake)	
39.5	25.5	39.5	39.5	154.5	181	

Dimensions in in

Difficiolofio III III.						
Straight connectors		Rotatable angled connectors		c (without brake)	a (with harden)	
b	b1	b	b1	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.08	7.12	

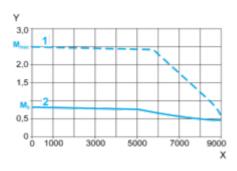
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

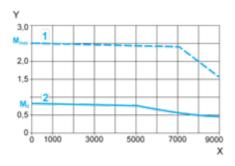


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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