

servo motor BSH, Lexium 05, 0.7N.m, 8000rpm, 70mm, keyed shaft, Sincos single turn, with brake, **IP50**

BSH0701T11F2A

Main

Maiii								
Product Or Component Type	Servo motor							
Device Short Name	BSH							
Maximum Mechanical Speed	8000 rpm							
Continuous Stall Torque	1.3 N.m for LXM32.U90M2 at 3 A, 230 V, single 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							
	1.4 N.m for LXM15LD13M3, 230 V, single phase							
	1.4 N.m for LXM05AD10F1, 110120 V, single phase							
	1.4 N.m for LXM05AD17M2, 200240 V, single phase							
	1.4 N.m for LXM05BD10F1, 110120 V, single phase							
	1.4 N.m for LXM05BD17M2, 200240 V, single phase							
	1.4 N.m for LXM05CD10F1, 110120 V, single phase							
	1.4 N.m for LXM05CD17M2, 200240 V, single phase							
	1.4 N.m for LXM32.D18M2 at 6 A, 115 V, single phase							
	0.7 N.m for LXM15LU60N4, 400 V, three phase							
	0.7 N.m for LXM15LU60N4, 480 V, three phase							
	0.91 N.m for LXM15LU60N4, 230 V, three phase							
	1.4 N.m for LXM15LD10N4, 230 V, three phase							
	1.4 N.m for LXM15LD10N4, 400 V, three phase							
	1.4 N.m for LXM15LD10N4, 480 V, three phase							
	1.4 N.m for LXM15LD13M3, 230 V, three phase							
	1.4 N.m for LXM15LD21M3, 230 V, three phase							
	1.4 N.m for LXM05AD17M3X, 200240 V, three phase							
	1.4 N.m for LXM05BD17M3X, 200240 V, three phase							
	1.4 N.m for LXM05CD17M3X, 200240 V, three phase							
Peak Stall Torque	3.5 N.m for LXM32.U90M2 at 3 A, 230 V, single phase							
	3.19 N.m for LXM15LD13M3, 230 V, single phase							
	2.42 N.m for LXM05AD10F1, 110120 V, single phase							
	3.19 N.m for LXM05AD17M2, 200240 V, single phase							
	2.42 N.m for LXM05BD10F1, 110120 V, single phase							
	3.19 N.m for LXM05BD17M2, 200240 V, single phase							
	2.42 N.m for LXM05CD10F1, 110120 V, single phase							

3.19 N.m for LXM05CD17M2, 200...240 V, single phase 3.5 N.m for LXM32.D18M2 at 6 A, 115 V, single phase 1.9 N.m for LXM15LU60N4, 400 V, three phase 1.9 N.m for LXM15LU60N4, 480 V, three phase 1.9 N.m for LXM15LU60N4, 230 V, three phase 2.91 N.m for LXM15LD10N4, 230 V, three phase 2.91 N.m for LXM15LD10N4, 400 V, three phase 2.91 N.m for LXM15LD10N4, 480 V, three phase $3.19\ \text{N.m}$ for LXM15LD13M3, 230 V, three phase 3.19 N.m for LXM15LD21M3, 230 V, three phase 2.42 N.m for LXM05AD10M3X, 200...240 V, three phase 3.19 N.m for LXM05AD17M3X, 200...240 V, three phase 2.42 N.m for LXM05BD10M3X, 200...240 V, three phase $3.19\ \text{N.m}$ for LXM05BD17M3X, 200...240 V, three phase 2.42 N.m for LXM05CD10M3X, 200...240 V, three phase 3.19 N.m for LXM05CD17M3X, 200...240 V, three phase

Nominal Output Power

500 W for LXM32.U90M2 at 3 A, 230 V, single phase 350 W for LXM32.D18M2 at 6 A, 115 V, single phase 400 W for LXM05AD10M3X, 200...240 V, three phase 400 W for LXM05BD10M3X, 200...240 V, three phase 400 W for LXM05CD10M3X, 200...240 V, three phase 380 W for LXM05AD10F1, 110...120 V, single phase 380 W for LXM05BD10F1, 110...120 V, single phase 380 W for LXM05CD10F1, 110...120 V, single phase 400 W for LXM05AD17M2, 200...240 V, single phase 400 W for LXM05BD17M2, 200...240 V, single phase 400 W for LXM05CD17M2, 200...240 V, single phase 654 W for LXM15LD13M3, 230 V, single phase 1000 W for LXM15LD10N4, 400 V, three phase 1000 W for LXM15LD10N4, 480 V, three phase 400 W for LXM05AD17M3X, 200...240 V, three phase 400 W for LXM05BD17M3X, 200...240 V, three phase 400 W for LXM05CD17M3X 200 240 V three phase 440 W for LXM15LU60N4, 230 V, three phase 564 W for LXM15LD10N4, 230 V, three phase 586 W for LXM15LU60N4, 400 V, three phase 586 W for LXM15LU60N4, 480 V, three phase 654 W for LXM15LD13M3, 230 V, three phase 654 W for LXM15LD21M3, 230 V, three phase

Nominal Torque

0.94 N.m for LXM32.U90M2 at 3 A, 230 V, single phase 1.25 N.m for LXM15LD13M3, 230 V, single phase 1.36 N.m for LXM32.D18M2 at 6 A, 115 V, single phase 0.7 N.m for LXM15LU60N4, 230 V, three phase 0.7 N.m for LXM15LU60N4, 400 V, three phase 0.7 N.m for LXM15LU60N4, 480 V, three phase 1.23 N.m for LXM15LD10N4, 400 V, three phase 1.23 N.m for LXM15LD10N4, 480 V, three phase 1.25 N.m for LXM15LD10N4, 230 V, three phase 1.25 N.m for LXM15LD10N4, 230 V, three phase 1.25 N.m for LXM15LD13M3, 230 V, three phase 1.25 N.m for LXM15LD13M3, 230 V, three phase 1.25 N.m for LXM15LD13M3, 230 V, three phase

Nominal Speed

5000 rpm for LXM32.U90M2 at 3 A, 230 V, single phase 3000 rpm for LXM05AD10F1, 110...120 V, single phase 3000 rpm for LXM05BD10F1, 110...120 V, single phase 3000 rpm for LXM05CD10F1, 110...120 V, single phase 3000 rpm for LXM05AD10M3X, 200...240 V, three phase 3000 rpm for LXM05BD10M3X, 200...240 V, three phase 3000 rpm for LXM05CD10M3X, 200...240 V, three phase 8000 rpm for LXM15LD10N4, 400 V, three phase $\stackrel{\cdot}{\text{3000}}$ rpm for LXM05AD17M2, 200...240 V, single phase 3000 rpm for LXM05BD17M2, 200...240 V, single phase 3000 rpm for LXM05CD17M2, 200...240 V, single phase 3000 rpm for LXM05AD17M3X, 200...240 V, three phase 3000 rpm for LXM05BD17M3X, 200...240 V, three phase 3000 rpm for LXM05CD17M3X, 200...240 V, three phase 5000 rpm for LXM15LD13M3, 230 V, single phase 2500 rpm for LXM32.D18M2 at 6 A, 115 V, single phase 5000 rpm for LXM15LD10N4, 230 V, three phase 5000 rpm for LXM15LD13M3, 230 V, three phase 5000 rpm for LXM15LD21M3, 230 V, three phase 6000 rpm for LXM15LU60N4, 230 V, three phase 8000 rpm for LXM15LD10N4, 480 V, three phase 8000 rpm for LXM15LU60N4, 400 V, three phase 8000 rpm for LXM15LU60N4, 480 V, three phase

Product Compatibility	LXM05AD10F1 at 110120 V single phase						
	LXM05AD17M2 at 200240 V single phase LXM05BD10F1 at 110120 V single phase						
	LXM05BD17M2 at 200240 V single phase						
	LXM05CD10F1 at 110120 V single phase						
	LXM05CD17M2 at 200240 V single phase						
	LXM15LD13M3 at 230 V single phase						
	LXM32.U90M2 at 230 V single phase						
	LXM32.D18M2 at 115 V single phase						
	LXM15LU60N4 at 230 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						
	LXM15LU60N4 at 400 V three phase						
	LXM15LU60N4 at 480 V three phase						
	LXM15LD10N4 at 400 V three phase						
	LXM05AD17M3X at 200240 V three phase						
	LXM05BD17M3X at 200240 V three phase						
	LXM05CD17M3X at 200240 V three phase LXM15LD10N4 at 230 V three phase						
	LXM15LD10N4 at 480 V three phase						
	LXM15LD21M3 at 230 V three phase						
Shaft End	Keyed						
Ip Degree Of Protection	IP50 standard						
Speed Feedback Resolution							
	131072 points/turn						
Holding Brake	With						
Mounting Support	International standard flange						
Electrical Connection	Rotatable right-angled connectors						
Electrical Connection	Rotatable right-angled connectors						
	Rotatable right-angled connectors						
Electrical Connection Complementary	Rotatable right-angled connectors						
Complementary							
	Rotatable right-angled connectors Lexium 05 Lexium 32						
Complementary	Lexium 05						
Complementary	Lexium 05 Lexium 32						
Complementary Range Compatibility	Lexium 05 Lexium 32 Lexium 15						
Complementary Range Compatibility Supply Voltage Max	Lexium 05 Lexium 32 Lexium 15 480 V						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases	Lexium 05 Lexium 32 Lexium 15 480 V Three phase						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LU60N4						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD60N4 9.9 A for LXM15LD10N4						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms Maximum Permanent Current Switching Frequency	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD10N4 10.1 A 8 kHz						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms Maximum Permanent Current Switching Frequency Second Shaft	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD40N4 9.9 A for LXM15LD10N4 10.1 A 8 kHz Without second shaft end						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms Maximum Permanent Current Switching Frequency Second Shaft Shaft Diameter	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD20M4 9.9 A for LXM15LD10N4 10.1 A 8 kHz Without second shaft end 11 mm						
Complementary Range Compatibility Supply Voltage Max Network Number Of Phases Continuous Stall Current Maximum Continuous Power Maximum Current Irms Maximum Permanent Current Switching Frequency Second Shaft Shaft Diameter Shaft Length	Lexium 05 Lexium 32 Lexium 15 480 V Three phase 3.2 A 1.06 W 10 A for LXM32.D18M2 9 A for LXM32.U90M2 9.9 A for LXM15LD13M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD21M3 9.9 A for LXM15LD10N4 10.1 A 8 kHz Without second shaft end 11 mm 23 mm						

2 N.m holding brake

0.44 N.m/A at 120 °C

70 mm

Holding Torque

Motor Flange Size

Torque Constant

Number Of Motor Stacks

Back Emf Constant	26 V/krpm at 120 °C
Number Of Motor Poles	6
Rotor Inertia	0.322 kg.cm²
Stator Resistance	3.3 Ohm at 20 °C
Stator Inductance	12.3 mH at 20 °C
Stator Electrical Time Constant	3.73 ms at 20 °C
Maximum Radial Force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	10 W
Type Of Cooling	Natural convection
Length	179.5 mm
Centring Collar Diameter	60 mm
Centring Collar Depth	2.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	5.5 mm
Circle Diameter Of The Mounting Holes	82 mm
Net Weight	2.3 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	2.55 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 >

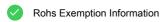




Transparency RoHS/REACh

Well-being performance





Yes



Pvc Free

Certifications & Standards

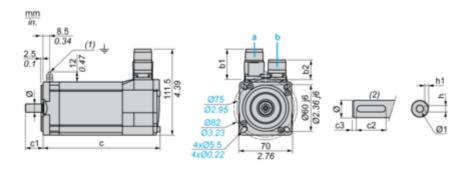
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

BSH0701T11F2A

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)

Dimensions in mm

Straight Rotatable angled connectors connectors			c (with	c1	c2	сЗ	h	h1	Ø	Ø1 for		
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	154	180	23	18	2.5	4 N9	2.5 ^{+0.1} ₀	11 k6	M4 x 10

Dimensions in in.

Straigh		Rotatal angled connec		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	Diake)								
1.55	1.00	1.55	1.55	6.06	7.08	0.90	0.70	0.09	0.16 N9	0.01 ^{+0.004} 0	0.43 k6	M4 x 0.39

Product data sheet

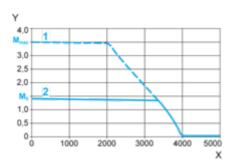
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



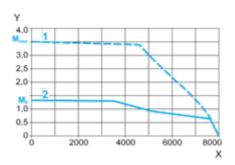
- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

BSH0701T11F2A

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