

servo motor BSH, Lexium 05, 1.4N.m, 3000rpm, 70mm, keyed shaft, Sincos single turn, without brake, IP50, straight

BSH0701P11A1A

Main

Product Or Component Type	Servo motor						
Device Short Name	BSH						
Maximum Mechanical Speed	8000 rpm						
Continuous Stall Torque	1.4 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 1.4 N.m for LXM32.D12N4 at 3 A, 480 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 1.4 N.m for LXM05CD13M3, 230 V, single phase 1.4 N.m for LXM05AD10M2, 200240 V, single phase 1.4 N.m for LXM05BD10M2, 200240 V, single phase 1.4 N.m for LXM05CD10M2, 200240 V, single phase						
Peak Stall Torque	3.5 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 3.5 N.m for LXM32.D12N4 at 3 A, 480 V, three phase 2.66 N.m for LXM05AD10M3X, 200240 V, three phase 2.66 N.m for LXM05BD10M3X, 200240 V, three phase 2.66 N.m for LXM05CD10M3X, 200240 V, three phase 2.66 N.m for LXM15LD13M3, 230 V, single phase 2.66 N.m for LXM05AD10M2, 200240 V, single phase 2.66 N.m for LXM05BD10M2, 200240 V, single phase 2.66 N.m for LXM05BD10M2, 200240 V, single phase 2.66 N.m for LXM05CD10M2, 200240 V, single phase 2.66 N.m for LXM05CD10M2, 200240 V, single phase 2.66 N.m for LXM15LU60N4, 230 V, three phase						
Nominal Output Power	700 W for LXM32.D12N4 at 3 A, 400 V, three phase 700 W for LXM32.D12N4 at 3 A, 480 V, three phase 400 W for LXM05AD10M2, 200240 V, single phase 400 W for LXM05BD10M2, 200240 V, single phase 400 W for LXM05CD10M2, 200240 V, single phase 411 W for LXM15LD13M3, 230 V, single phase 400 W for LXM05AD10M3X, 200240 V, three phase 400 W for LXM05BD10M3X, 200240 V, three phase 400 W for LXM05CD10M3X, 200240 V, three phase 410 W for LXM05CD10M3X, 200240 V, three phase 411 W for LXM15LU60N4, 230 V, three phase						
Nominal Torque	1.32 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 1.32 N.m for LXM32.D12N4 at 3 A, 480 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 1.31 N.m for LXM15LD13M3, 230 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 LXM05CD10M3X, 200240 V, three phase 1.3 N.m for LXM15LU60N4, 230 V, three phase 1.31 N.m for LXM15LU60N4, 230 V, three phase						
Nominal Speed	5000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 5000 rpm for LXM32.D12N4 at 3 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 LXM05BD10M3X, 200240 V, three phase 3000 rpm for LXM05CD10M3X, 200240 V, three phase 3000 rpm for LXM05CD10M3X, 200240 V, three phase 3000 rpm for LXM15LD13M3, 230 V, single phase 3000 rpm for LXM15LU60N4, 230 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 LXM15LU60N4 at 230 V three phase LXM05AD10M3X at 200240 V three phase LXM05BD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM32.D12N4 at 400 V three phase LXM32.D12N4 at 480 V three phase						
Shaft End	Keyed						
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	1.8 A						
Maximum Continuous Power	1.06 W						
Maximum Current Irms	5.7 A for LXM05AD10M3X 5.7 A for LXM05BD10M2 5.7 A for LXM05BD10M3X 5.7 A for LXM05CD10M2 5.7 A for LXM05CD10M3X 5.3 A for LXM15LD13M3 5.3 A for LXM15LU60N4 5.7 A for LXM05AD10M2 5.7 A for LXM05AD10M2 5.7 A for LXM05AD10M2						
Maximum Permanent Current	5.7 A						
Switching Frequency	8 kHz						
Second Shaft	Without second shaft end						
Shaft Diameter	11 mm						
Shaft Length	23 mm						
Key Width	18 mm						
Feedback Type	Single turn SinCos Hiperface						
Motor Flange Size	70 mm						
Number Of Motor Stacks	1						
Torque Constant	0.8 N.m/A at 120 °C						
Back Emf Constant	46 V/krpm at 120 °C						
Number Of Motor Poles	6						
Rotor Inertia	0.25 kg.cm²						
Stator Resistance	10.4 Ohm at 20 °C						
Stator Inductance	38.8 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
Type Of Cooling	Natural convection
Length	154 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	2.2 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	2.1 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	6
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	20.5 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

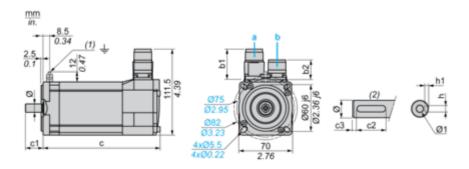
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with	c1	c2	c3	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	ctors angled connectors		c (without brake)	c (with brake)	с1	c2	сЗ	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	2.0								
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

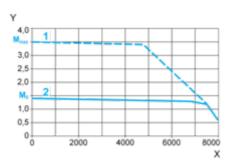
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

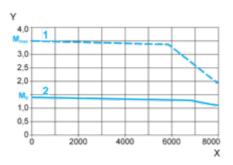


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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