

servo motor BSH, Lexium 05, 2.7N.m, 3000rpm, 100mm, keyed shaft, Sincos single turn, without brake, IP50, straight

BSH1001P11A1A

Main

Main						
Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	6000 rpm					
Continuous Stall Torque	3.39 N.m for LXM15LD21M3, 230 V, single phase					
	2.7 N.m for LXM15LD10N4, 230 V, three phase					
	3.39 N.m for LXM15LD10N4, 400 V, three phase					
	3.39 N.m for LXM15LD10N4, 480 V, three phase					
	3.39 N.m for LXM15LD21M3, 230 V, three phase					
	3.39 N.m for LXM15LD17N4, 230 V, three phase					
	3.39 N.m for LXM15LD17N4, 400 V, three phase					
	3.39 N.m for LXM15LD17N4, 480 V, three phase					
	3.4 N.m for LXM05AD17M3X, 200240 V, three phase					
	3.4 N.m for LXM05AD22N4, 380480 V, three phase					
	3.4 N.m for LXM05BD17M3X, 200240 V, three phase 3.4 N.m for LXM05BD22N4, 380480 V, three phase					
	3.4 N.m for LXM05CD17M3X, 200240 V, three phase					
	3.4 N.m for LXM05CD22N4, 380480 V, three phase					
	3.3 N.m for LXM32.D18N4 at 6 A, 400 V, three phase					
	3.3 N.m for LXM32.D18N4 at 6 A, 480 V, three phase					
Peak Stall Torque	7.08 N.m for LXM15LD21M3, 230 V, single phase					
•	6.19 N.m for LXM15LD10N4, 230 V, three phase					
	6.19 N.m for LXM15LD10N4, 400 V, three phase					
	6.19 N.m for LXM15LD10N4, 480 V, three phase					
	7.08 N.m for LXM15LD21M3, 230 V, three phase					
	7.08 N.m for LXM15LD17N4, 230 V, three phase					
	7.08 N.m for LXM15LD17N4, 400 V, three phase					
	7.08 N.m for LXM15LD17N4, 480 V, three phase					
	7.1 N.m for LXM05AD17M3X, 200240 V, three phase					
	7.1 N.m for LXM05AD22N4, 380480 V, three phase					
	7.1 N.m for LXM05BD17M3X, 200240 V, three phase					
	7.1 N.m for LXM05BD22N4, 380480 V, three phase					
	7.1 N.m for LXM05CD17M3X, 200240 V, three phase 7.1 N.m for LXM05CD22N4, 380480 V, three phase					
	9.6 N.m for LXM32.D18N4 at 6 A, 400 V, three phase					
	9.6 N.m for LXM32.D18N4 at 6 A, 480 V, three phase					
Nominal Output Power	1300 W for LXM15LD17N4, 400 V, three phase					
	1500 W for LXM15LD10N4, 480 V, three phase					
	950 W for LXM15LD21M3, 230 V, single phase					
	1300 W for LXM15LD10N4, 400 V, three phase					
	1500 W for LXM15LD17N4, 480 V, three phase					
	500 W for LXM05AD17M3X, 200240 V, three phase					
	500 W for LXM05BD17M3X, 200240 V, three phase					
	500 W for LXM05CD17M3X, 200240 V, three phase					
	850 W for LXM15LD10N4, 230 V, three phase					
	900 W for LXM05AD22N4, 380480 V, three phase					
	900 W for LXM05BD22N4, 380480 V, three phase 900 W for LXM05CD22N4, 380480 V, three phase					
	950 W for LXM05CD22N4, 360460 V, three phase					
	950 W for LXM15LD17N4, 250 V, three phase					
	1100 W for LXM32.D18N4 at 6 A, 400 V, three phase					
	4400 W for LVM22 D40N4 at 6. A. 490 V, three phase					

1100 W for LXM32.D18N4 at 6 A, 480 V, three phase

Nominal Torque	3 N.m for LXM15LD21M3, 230 V, single phase
	2.5 N.m for LXM15LD10N4, 480 V, three phase
	2.5 N.m for LXM15LD17N4, 480 V, three phase 2.7 N.m for LXM15LD10N4, 230 V, three phase
	2.7 N.m for LXM15LD10N4, 400 V, three phase
	2.7 N.m for LXM15LD17N4, 400 V, three phase
	2.92 N.m for LXM05AD22N4, 380480 V, three phase
	2.92 N.m for LXM05BD22N4, 380480 V, three phase
	2.92 N.m for LXM05CD22N4, 380480 V, three phase
	3 N.m for LXM15LD17N4, 230 V, three phase 3 N.m for LXM15LD21M3, 230 V, three phase
	3.16 N.m for LXM05AD17M3X, 200240 V, three phase
	3.16 N.m for LXM05BD17M3X, 200240 V, three phase
	3.16 N.m for LXM05CD17M3X, 200240 V, three phase
	2.7 N.m for LXM32.D18N4 at 6 A, 400 V, three phase
	2.7 N.m for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal Speed	3000 rpm for LXM15LD10N4, 230 V, three phase
	3000 rpm for LXM15LD21M3, 230 V, single phase
	3000 rpm for LXM05AD22N4, 380480 V, three phase
	3000 rpm for LXM05BD22N4, 380480 V, three phase
	3000 rpm for LXM05CD22N4, 380480 V, three phase
	3000 rpm for LXM15LD17N4, 230 V, three phase 3000 rpm for LXM15LD21M3, 230 V, three phase
	1500 rpm for LXM05AD17M3X, 200240 V, three phase
	1500 rpm for LXM05BD17M3X, 200240 V, three phase
	1500 rpm for LXM05CD17M3X, 200240 V, three phase
	4500 rpm for LXM15LD10N4, 400 V, three phase
	4500 rpm for LXM15LD17N4, 400 V, three phase
	6000 rpm for LXM15LD10N4, 480 V, three phase
	6000 rpm for LXM15LD17N4, 480 V, three phase
	4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase
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Product Compatibility	LXM15LD21M3 at 230 V single 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
	LXM15LD17N4 at 230 V three phase
	LXM05AD22N4 at 380480 V three phase
	LXM05BD22N4 at 380480 V three phase
	LXM05CD22N4 at 380480 V three phase
	LXM15LD17N4 at 400 V three phase
	LXM15LD17N4 at 480 V three phase LXM32.D18N4 at 400 V three phase
	LXM32.D18N4 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
Complementary	
Range Compatibility	Lexium 15
range companionity	Lexium 05
	Lexium 32
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	3.5 A
Maximum Continuous Power	1.6 W
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Maximum Current Irms	12 A for LXM15LD21M3
	12 A for LXM15LD10N4
	12 A for LXM15LD17N4
	12 A for LXM05AD17M3X
	12 A for LXM05AD22N4 12 A for LXM05BD17M3X
	12 A for LXM05BD22N4
	12 A for LXM05CD17M3X
	12 A for LXM05CD22N4
Maximum Permanent Current	12 A for LXM32.D18N4
	12 A
Switching Frequency	8 kHz
Second Shaft	Without second shaft end
Shaft Diameter	19 mm
Shaft Length	40 mm
Key Width	30 mm
Feedback Type	Single turn SinCos Hiperface
Motor Flange Size	100 mm
Number Of Motor Stacks	1
Torque Constant	0.89 N.m/A at 120 °C
Back Emf Constant	60 V/krpm at 120 °C
Number Of Motor Poles	8
Rotor Inertia	1.4 kg.cm²
Stator Resistance	3.8 Ohm at 20 °C
Stator Inductance	17.6 mH at 20 °C
Stator Electrical Time Constant	4.63 ms at 20 °C
Maximum Radial Force Fr	530 N at 5000 rpm
	570 N at 4000 rpm
	630 N at 3000 rpm 720 N at 2000 rpm
	900 N at 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	168.5 mm
Centring Collar Diameter	95 mm
Centring Collar Depth	3.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	9 mm
Circle Diameter Of The Mounting Holes	115 mm
Net Weight	4.2 kg
Packing Units	
Unit Type Of Package 1	PCE

Unit Type Of Package 1	PCE					
Number Of Units In Package 1	1					
Package 1 Height	15.4 cm					
Package 1 Width	16.3 cm					
Package 1 Length	40.7 cm					

Package 1 Weight	4.3 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	12
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	69.412 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

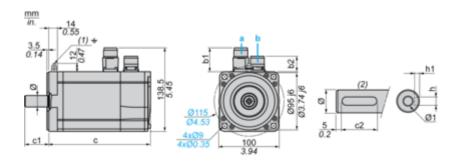
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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 brake)	c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	5.4	2.0.0)						00.0.70
39.5	25.5	39.5	39.5	169	200	40	30	6 N9	3.5 ^{+0.1} ₀	19 k6	M6 x 16

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without	c (with	c1	c2	h	h1	Ø	Ø1 for
b1	b2	b1	b2	brake)	brake)						screws
1.55	1.00	1.55	1.55	6.65	7.87	1.57	1.18	0.24 N9	0.14 ^{+0.1} 0	0.75 k6	M6 x 0.63

Product data sheet

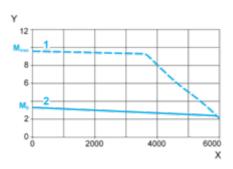
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

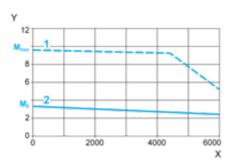


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



- X Speed in rpm
- ${\bf Y}$ Torque in Nm
- 1 Peak torque
- 2 Continuous torque