

AC servo motor BSH, Lexium 05, 2.12N.m, 6000rpm, keyed shaft, with brake, IP50

BSH0702T11F2A

Main

Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	8000 rpm					
Continuous Stall Torque	2.2 N.m for LXM32.D30M2 at 10 A, 115 V, single phase					
	2.12 N.m for LXM05AD17M2, 200240 V, single phase					
	2.12 N.m for LXM05BD17M2, 200240 V, single phase					
	2.12 N.m for LXM05CD17M2, 200240 V, single phase					
	2.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase					
	2.12 N.m for LXM05AD17F1, 110120 V, single phase					
	2.12 N.m for LXM05AD28M2, 200240 V, single phase					
	2.12 N.m for LXM05BD17F1, 110120 V, single phase					
	2.12 N.m for LXM05BD28M2, 200240 V, single phase 2.12 N.m for LXM05CD17F1, 110120 V, single phase					
	2.12 N.m for LXM05CD17F1, 110120 V, single phase					
	2.12 N.m for LXM15LD17N4, 230 V, three phase					
	2.12 N.m for LXM15LD21M3, 230 V, three phase					
	2.12 N.m for LXM05AD42M3X, 200240 V, three phase					
	2.12 N.m for LXM05BD42M3X, 200240 V, three phase					
	2.12 N.m for LXM05CD42M3X, 200240 V, three phase					
Peak Stall Torque	6.1 N.m for LXM32.D30M2 at 10 A, 115 V, single phase					
	7.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase					
	4.14 N.m for LXM05AD17F1, 110120 V, single phase					
	4.14 N.m for LXM05AD17M2, 200240 V, single phase					
	4.14 N.m for LXM05BD17F1, 110120 V, single phase					
	4.14 N.m for LXM05BD17M2, 200240 V, single phase					
	4.14 N.m for LXM05CD17F1, 110120 V, single phase					
	4.14 N.m for LXM05CD17M2, 200240 V, single phase					
	6.8 N.m for LXM05AD28M2, 200240 V, single phase					
	6.8 N.m for LXM05BD28M2, 200240 V, single phase					
	6.8 N.m for LXM05CD28M2, 200240 V, single phase 4.47 N.m for LXM15LD17N4, 230 V, three phase					
	4.47 N.m for LXM15LD17N4, 230 V, three phase 5.45 N.m for LXM15LD21M3, 230 V, three phase					
	6.8 N.m for LXM05AD42M3X, 200240 V, three phase					
	6.8 N.m for LXM05BD42M3X, 200240 V, three phase					
	6.8 N.m for LXM05CD42M3X, 200240 V, three phase					
Nominal Output Power	550 W for LXM32.D30M2 at 10 A, 115 V, single phase					
	600 W for LXM05AD17M2, 200240 V, single phase					
	600 W for LXM05BD17M2, 200240 V, single phase					
	600 W for LXM05CD17M2, 200240 V, single phase					
	570 W for LXM05AD17F1, 110120 V, single phase					
	570 W for LXM05BD17F1, 110120 V, single phase					
	570 W for LXM05CD17F1, 110120 V, single phase					
	600 W for LXM05AD28M2, 200240 V, single phase					
	600 W for LXM05BD28M2, 200240 V, single phase					
	600 W for LXM05CD28M2, 200240 V, single phase					
	950 W for LXM32.D18M2 at 6 A, 230 V, single phase 1000 W for LXM15LD17N4, 230 V, three phase					
	1000 W for LXM15LD17N4, 230 V, three phase					
	600 W for LXM05AD42M3X, 200240 V, three phase					
	600 W for LXM05BD42M3X, 200240 V, three phase					
	600 W for LXM05CD42M3X, 200240 V, three phase					

Nominal Torque	2.07 N.m for LXM32.D30M2 at 10 A, 115 V, single phase
	1.9 N.m for LXM05AD17M2, 200240 V, single phase
	1.9 N.m for LXM05BD17M2, 200240 V, single phase 1.9 N.m for LXM05CD17M2, 200240 V, single phase
	1.83 N.m for LXM05AD17F1, 110120 V, single phase
	1.83 N.m for LXM05BD17F1, 110120 V, single phase
	1.83 N.m for LXM05CD17F1, 110120 V, single phase
	1.9 N.m for LXM05AD28M2, 200240 V, single phase
	1.9 N.m for LXM05BD28M2, 200240 V, single phase
	1.9 N.m for LXM05CD28M2, 200240 V, single phase 1.8 N.m for LXM32.D18M2 at 6 A, 230 V, single phase
	1.66 N.m for LXM15LD17N4, 230 V, three phase
	1.66 N.m for LXM15LD21M3, 230 V, three phase
	1.9 N.m for LXM05AD42M3X, 200240 V, three phase
	1.9 N.m for LXM05BD42M3X, 200240 V, three phase
	1.9 N.m for LXM05CD42M3X, 200240 V, three phase
Nominal Speed	2500 rpm for LXM32.D30M2 at 10 A, 115 V, single phase
•	3000 rpm for LXM05AD17F1, 110120 V, single phase
	3000 rpm for LXM05BD17F1, 110120 V, single phase
	3000 rpm for LXM05CD17F1, 110120 V, single phase
	3000 rpm for LXM05AD17M2, 200240 V, single phase
	3000 rpm for LXM05BD17M2, 200240 V, single phase
	3000 rpm for LXM05CD17M2, 200240 V, single phase 3000 rpm for LXM05AD28M2, 200240 V, single phase
	3000 rpm for LXM05AD28M2, 200240 V, single phase 3000 rpm for LXM05BD28M2, 200240 V, single phase
	3000 rpm for LXM05CD28M2, 200240 V, single phase
	5000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase
	3000 rpm for LXM05AD42M3X, 200240 V, three phase
	3000 rpm for LXM05BD42M3X, 200240 V, three phase
	3000 rpm for LXM05CD42M3X, 200240 V, three phase
	6000 rpm for LXM15LD17N4, 230 V, three phase
	6000 rpm for LXM15LD21M3, 230 V, three phase
Product Compatibility	LXM05AD17F1 at 110120 V single phase
	LXM05AD17M2 at 200240 V single phase
	LXM05AD28M2 at 200240 V single phase
	LXM05BD17F1 at 110120 V single phase
	LXM05BD17M2 at 200240 V single phase
	LXM05BD28M2 at 200240 V single phase
	LXM05CD17F1 at 110120 V single phase
	LXM05CD17M2 at 200240 V single phase
	LXM05CD28M2 at 200240 V single phase
	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
	LXM15LD21M3 at 230 V three phase
	LXM05AD42M3X at 200240 V three phase
	LXM05BD42M3X at 200240 V three phase
	LXM05CD42M3X at 200240 V three phase
	LXM15LD17N4 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
Complementant	
Complementary	
Range Compatibility	Lexium 05
	Lexium 15
	Lexium 32
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	4.9 A
Maximum Continuous Power	1.51 W

Maximum Current Irms	20.6 A for LXM15LD21M3
	20.6 A for LXM15LD17N4
	19.9 A for LXM05AD17F1
	19.9 A for LXM05AD17M2 19.9 A for LXM05AD28M2
	19.9 A for LXM05AD42M3X
	19.9 A for LXM05BD17F1
	19.9 A for LXM05BD17M2 19.9 A for LXM05BD28M2
	19.9 A for LXM05BD42M3X
	19.9 A for LXM05CD17F1
	19.9 A for LXM05CD17M2
	19.9 A for LXM05CD28M2 19.9 A for LXM05CD42M3X
	15 A for LXM32.D30M2
	18 A for LXM32.D18M2
Maximum Permanent Current	19.9 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
Holding Torque Motor Flange Size	2 N.m holding brake
	70 mm
Number Of Motor Stacks	2
Torque Constant	0.45 N.m/A at 120 °C
Back Emf Constant	28 V/krpm at 120 °C
Number Of Motor Poles	6
Rotor Inertia	0.482 kg.cm²
Stator Resistance	1.5 Ohm at 20 °C
Stator Inductance	6.7 mH at 20 °C
Stator Electrical Time Constant	4.47 ms at 20 °C
Maximum Radial Force Fr	390 N at 6000 rpm
	410 N at 5000 rpm 450 N at 4000 rpm
	490 N at 3000 rpm
	560 N at 2000 rpm
Maximum Axial Force Fa	710 N at 1000 rpm 0.2 x Fr
Brake Pull-In Power	10 W
Type Of Cooling	Natural convection
Length	212.5 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	82 mm
Holes	
Net Weight	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	3.25 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

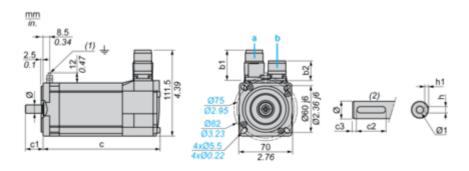
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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	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	187	213	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	7.36	8.38	0.90	0.70	0.09	0.16 N9	0.01 ^{+0.004} 0	0.43 k6	M4 x 0.39

Product data sheet

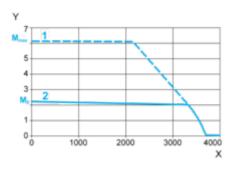
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



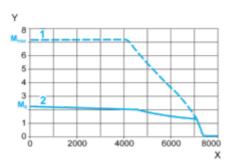
- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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