



! Discontinued

AC servo motor BSH - 3.39 N.m -4000 rpm - untapped shaft - with brake - IP50

BSH1001T01F1A

Discontinued on: 18 Apr 2024

! To be end-of-service on: 18 Apr 2026

Main

BSH						
Servo motor						
6000 rpm						
3.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase						
3.39 N.m for LXM15LD28M3, 230 V, three phase						
3.4 N.m for LXM05AD28F1, 110120 V, single phase						
3.4 N.m for LXM05AD28M2, 200240 V, single phase 3.4 N.m for LXM05AD42M3X, 200240 V, three phase						
3.4 N.m for LXM05BD28F1, 110120 V, single phase						
3.4 N.m for LXM05BD28M2, 200240 V, single phase						
3.4 N.m for LXM05BD42M3X, 200240 V, three phase						
3.4 N.m for LXM05CD28F1, 110120 V, single phase						
3.4 N.m for LXM05CD28M2, 200240 V, single phase						
3.4 N.m for LXM05CD42M3X, 200240 V, three phase						
2.7 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
6.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase						
8.5 N.m for LXM05AD28F1, 110120 V, single phase						
8.5 N.m for LXM05AD28M2, 200240 V, single phase						
8.5 N.m for LXM05BD28F1, 110120 V, single phase						
8.5 N.m for LXM05BD28M2, 200240 V, single phase						
8.5 N.m for LXM05CD28F1, 110120 V, single phase						
8.5 N.m for LXM05CD28M2, 200240 V, single phase						
7.5 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
8.5 N.m for LXM15LD28M3, 230 V, three phase						
8.5 N.m for LXM05AD42M3X, 200240 V, three phase						
8.5 N.m for LXM05BD42M3X, 200240 V, three phase						
8.5 N.m for LXM05CD42M3X, 200240 V, three phase						
700 W for LXM32.D30M2 at 10 A, 115 V, single phase						
900 W for LXM32.D18M2 at 6 A, 230 V, single phase						
500 W for LXM05AD28F1, 110120 V, single phase						
500 W for LXM05BD28F1, 110120 V, single phase						
500 W for LXM05CD28F1, 110120 V, single phase						
900 W for LXM05AD28M2, 200240 V, single phase						
900 W for LXM05BD28M2, 200240 V, single phase						
900 W for LXM05CD28M2, 200240 V, single phase						
1150 W for LXM15LD28M3, 230 V, three phase						
900 W for LXM05AD42M3X, 200240 V, three phase 900 W for LXM05BD42M3X, 200240 V, three phase						
900 W for LXM05CD42M3X, 200240 V, three phase						
2.75 N.m for LXM32.D30M2 at 10 A, 115 V, single phase						
2.9 N.m for LXM05AD28M2, 200240 V, single phase						
2.9 N.m for LXM05BD28M2, 200240 V, single phase						
2.9 N.m for LXM05CD28M2, 200240 V, single phase						
3.16 N.m for LXM05AD28F1, 110120 V, single phase						
3.16 N.m for LXM05BD28F1, 110120 V, single phase						
3.16 N.m for LXM05CD28F1, 110120 V, single phase						
2.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase						
2.75 N.m for LXM15LD28M3, 230 V, three phase						
2.9 N.m for LXM05AD42M3X, 200240 V, three phase						
2.9 N.m for LXM05BD42M3X, 200240 V, three phase						
2.9 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 LXM05AD28M2, 200240 V, single phase
	3000 rpm for LXM05BD28M2, 200240 V, single phase 3000 rpm for LXM05CD28M2, 200240 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
	4000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase 1500 rpm for LXM05AD28F1, 110120 V, single phase
	1500 rpm for LXM05BD28F1, 110120 V, single phase
	1500 rpm for LXM05CD28F1, 110120 V, single phase
	4000 rpm for LXM15LD28M3, 230 V, three phase
Product compatibility	LXM05AD28F1 at 110120 V single phase
	LXM05AD28M2 at 200240 V single phase
	LXM05BD28F1 at 110120 V single phase LXM05BD28M2 at 200240 V single phase
	LXM05CD28F1 at 110120 V single phase
	LXM05CD28M2 at 200240 V single phase
	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
	LXM05AD42M3X at 200240 V three phase
	LXM05BD42M3X at 200240 V three phase
	LXM05CD42M3X at 200240 V three phase
	LXM15LD28M3 at 230 V three phase
Shaft end	Untapped
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn
Holding brake	With
mounting support	International standard flange
Electrical connection	Straight connectors
Complementary	
Range compatibility	Lexium 05
	Lexium 32
	Lexium 15
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	7.3 A
maximum continuous power	1.6 W
Maximum current Irms	18 A for LXM32.D18M2 at 230 V
	15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3
	23 A for LXM15LD28M3 25.1 A for LXM05AD28F1
	25.1 A for LXM05AD28M2
	25.1 A for LXM05AD42M3X
	25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2
	25.1 A for LXM05BD42M3X
	25.1 A for LXM05CD28F1
	25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X
Maximum permanent current	25.1 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	
	Single turn SinCos Hiperface
Holding torque	Single turn SinCos Hiperface 9 N.m holding brake

Motor flange size	100 mm						
Number of motor stacks	1						
Torque constant	0.45 N.m/A at 120 °C						
Back emf constant	29 V/krpm at 120 °C						
Number of motor poles	8						
Rotor inertia	2.018 kg.cm²						
Stator resistance	0.87 Ohm at 20 °C						
Stator inductance	4 mH at 20 °C						
Stator electrical time constant	4.6 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						
Brake pull-in power	18 W						
Type of cooling	Natural convection						
Length	199.5 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	4.8 kg						

Packing Units

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	4.95 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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

Certifications & Standards

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

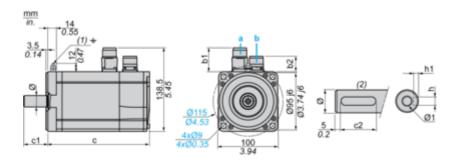
4 Sept 2024

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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 Rotatable angled connectors connectors		,	c (with	c1	c2	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)						screws
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 Rotatable angled connectors connectors		c (without c (with brake) brake)	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 datasheet

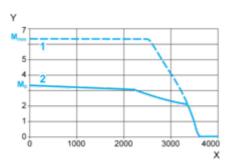
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

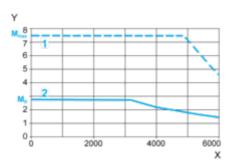


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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