

AC servo motor BSH - 3.39 N.m - 4000 rpm - untapped shaft - without brake - IP50

BSH1001T01A2A

EAN Code: 3389118138391

Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	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 at 6 A, 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
Peak stall torque	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 at 6 A, 200240 V, three phase
	8.5 N.m for LXM05CD42M3X, 200240 V, three phase
Nominal output power	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 at 6 A, 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
Nominal torque	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 at 6 A, 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 at 6 A, 110120 V, single phase
	4000 rpm for LXM15LD28M3, 230 V, three phase
Product compatibility	LXM05AD28F1 at 110120 V single phase
1 roduct companionity	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	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Oammiam antom.	
Complementary	
Complementary Range compatibility	Lexium 05
- 	Lexium 32
- 	Lexium 32
Range compatibility	Lexium 32 Lexium 15
Range compatibility supply voltage max	Lexium 32 Lexium 15 480 V
Range compatibility supply voltage max Network number of phases	Lexium 32 Lexium 15 480 V Three phase
Range compatibility supply voltage max Network number of phases Continuous stall current	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD42M3X 25.1 A for LXM05AD42M3X 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD42M3X 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05BD28M2 25.1 A for LXM05BD28M2
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 25.1 A for LXM05BD28M2 25.1 A for LXM05BD42M3X 25.1 A for LXM05BD42M3X 25.1 A for LXM05BD42M3X
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD42M3X 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05BD28M2 25.1 A for LXM05BD28M2
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM05AD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD2BM2 at 115 V 25.1 A for LXM05AD2BM2 at 115 V 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05BD42M3X 25.1 A for LXM05BD42M3X 25.1 A for LXM05BD42M3X 25.1 A for LXM05CD28F1 25.1 A for LXM05CD28M2
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power Maximum current Irms	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05BD28M2 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05BD42M3X 25.1 A for LXM05BD42M3X 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power Maximum current Irms	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD42M3X 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28M2 25.1 A for LXM05CD28F1 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X
Range compatibility supply voltage max Network number of phases Continuous stall current maximum continuous power Maximum current Irms Maximum permanent current Switching frequency	Lexium 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28F1 25.1 A for LXM05BD28H2 25.1 A for LXM05BD28M2 25.1 A for LXM05CD28H1 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X 25.1 A for LXM05CD42M3X
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 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM15LD28M3 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05AD28M2 at 115 V 25.1 A for LXM05BD28H2 25.1 A for LXM05BD28H2 25.1 A for LXM05BD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X 25.1 A for LXM05CD42M3X 25.1 A for LXM05CD42M3X
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 32 Lexium 15 480 V Three phase 7.3 A 1.6 W 18 A for LXM32.D18M2 at 230 V 15 A for LXM32.D30M2 at 115 V 23 A for LXM05AD28F1 25.1 A for LXM05AD28F1 25.1 A for LXM05AD28B2 at 115 V 25.1 A for LXM05AD28B2 B1 25.1 A for LXM05AD28M3 25.1 A for LXM05AD28M2 25.1 A for LXM05BD28M1 25.1 A for LXM05BD28M2 25.1 A for LXM05CD28F1 25.1 A for LXM05CD28F1 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD28M2 25.1 A for LXM05CD42M3X 25.1 A 8 kHz Without second shaft end

1
0.45 N.m/A at 120 °C
29 V/krpm at 120 °C
4.0
1.4 kg.cm²
0.87 Ohm at 20 °C
2.15 mH at 20 °C
4.6 ms at 20 °C
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
0.2 x Fr
Natural convection
168.5 mm
95 mm
3.5 mm
4
9 mm
115 mm
4.2 kg
BSH1001T
3
1.4°
120 °C
100 °C
20 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21 cm
Package 1 Width	18.2 cm
Package 1 Length	57 cm
Package 1 Weight	4.982 kg
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Height	77 cm
Package 2 Width	80 cm
Package 2 Length	60 cm
Package 2 Weight	38.35 kg

Logistical informations

Country of origin

DE

Contractual warranty

Warranty

18 months

1 Jul 2025



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1274
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

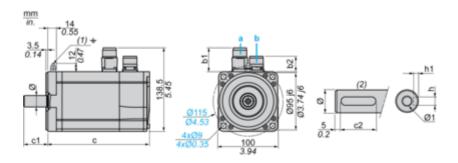
○ Repack and remanufacture						
Circularity Profile	No need of specific recycling operations					
Take-back	No					
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins					

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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)						00.01.0
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 (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 datasheet

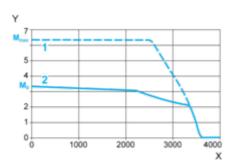
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

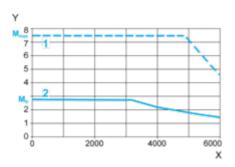


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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