

AC servo motor BSH - 1.4 N.m - 3000 rpm - untapped shaft - without brake - IP50

BSH0701P02A2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3389118135598

Main

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Device short name	BSH
Product or component type	Servo motor
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 at 3 A, 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 LXM15LD13M3, 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
	1.4 N.m for LXM15LU60N4, 230 V, three 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 at 3 A, 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 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 at 3 A, 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
	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 at 3 A, 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
	1.31 N.m for LXM15LU60N4, 230 V, three phase
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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 at 3 A, 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 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						
	LXM32.D12N4 at 400 V three phase						
	LXM32.D12N4 at 480 V three phase						
Shaft end	Untapped						
IP degree of protection	IP50 standard						
Speed feedback resolution	131072 points/turn x 4096 turns						
Holding brake	Without						
Mounting support	International standard flange						
Electrical connection	Rotatable right-angled connectors						
Complementary							
Range compatibility	Lexium 32						
nange compatibility	Lexium 05						
	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 LXM32.D12N4						
Maximum permanent current	5.7 A						
Switching frequency	8 kHz						
Second shaft	Without second shaft end						
Shaft diameter	11 mm						
Shaft length	23 mm						
Feedback type	Multiturn 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	3.0						

Rotor inertia	0.25 kg.cm ²
Stator resistance	10.4 Ohm at 20 °C
Stator inductance	21.3 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
Sizing reference	BSH0701P
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	120 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

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	2.1 kg

Contractual warranty

Warranty 18 months



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)	778
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
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)
SCIP Number	8c11b0c9-e501-4810-83eb-05fc6605ede4
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

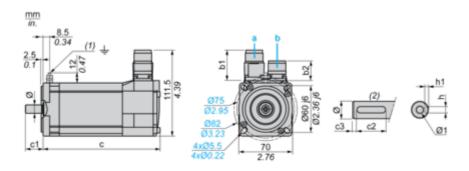
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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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 Rotatable angled connectors connectors		c (without c (with		c1	c2	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.

connec	Straight connectors		ole tors	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 datasheet

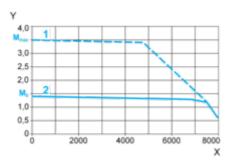
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

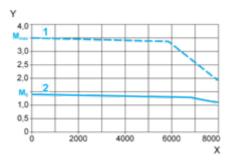


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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