

AC servo motor BSH - 11.1 N.m - 1500 rpm - untapped shaft - with brake - IP65

BSH1401P22F2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3389118140899

Main

Device short name	BSH					
Product or component type	Servo motor					
Maximum mechanical speed	4000 rpm					
Continuous stall torque	11.1 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 11.1 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 11.1 N.m for LXM15MD28N4, 400 V, three phase 11.1 N.m for LXM15MD28N4 at 10 A, 480 V, three phase 11.1 N.m for LXM15MD28N4, 230 V, three phase 11.1 N.m for LXM15MD40N4, 400 V, three phase 11.1 N.m for LXM15MD40N4, 480 V, three phase 11.1 N.m for LXM15LD28M3, 230 V, three phase 11.1 N.m for LXM15LD28M3, 230 V, three phase 11.4 N.m for LXM05AD34N4, 380480 V, three phase 11.4 N.m for LXM05BD34N4, 380480 V, three phase 11.4 N.m for LXM05CD34N4, 380480 V, three phase					
Peak stall torque	27 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 27 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 23.33 N.m for LXM15MD28N4, 230 V, three phase 23.33 N.m for LXM15MD28N4 at 10 A, 400 V, three phase 23.33 N.m for LXM15MD28N4, 480 V, three phase 23.33 N.m for LXM15MD40N4, 400 V, three phase 23.33 N.m for LXM15MD40N4, 480 V, three phase 23.33 N.m for LXM15LD28M3, 230 V, three phase 23.8 N.m for LXM15LD28M3, 230 V, three phase 23.33 N.m for LXM05AD34N4, 380480 V, three phase 23.33 N.m for LXM05BD34N4, 380480 V, three phase 23.33 N.m for LXM05CD34N4, 380480 V, three phase					
Nominal output power	2500 W for LXM32.D30N4 at 10 A, 400 V, three phase 3000 W for LXM32.D30N4 at 10 A, 480 V, three phase 2000 W for LXM15MD28N4, 400 V, three phase 2000 W for LXM15MD40N4 at 10 A, 400 V, three phase 2200 W for LXM05AD34N4, 380480 V, three phase 2200 W for LXM05BD34N4, 380480 V, three phase 2200 W for LXM05CD34N4, 380480 V, three phase 2200 W for LXM05CD34N4, 380480 V, three phase 1400 W for LXM15LD28M3, 230 V, three phase 1400 W for LXM15MD28N4, 230 V, three phase 2150 W for LXM15MD28N4, 480 V, three phase 2150 W for LXM15MD28N4, 480 V, three phase					
Nominal torque	9.5 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 9.5 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 6.8 N.m for LXM15MD28N4, 480 V, three phase 6.8 N.m for LXM15MD40N4 at 10 A, 480 V, three phase 6.9 N.m for LXM05AD34N4, 380480 V, three phase 6.9 N.m for LXM05BD34N4, 380480 V, three phase 6.9 N.m for LXM05CD34N4, 380480 V, three phase 7.63 N.m for LXM15MD28N4, 400 V, three phase 7.63 N.m for LXM15MD40N4, 400 V, three phase 9.1 N.m for LXM15LD28M3, 230 V, three phase 9.1 N.m for LXM15MD28N4, 230 V, three phase					

Nominal speed	2500 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 3000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase 3000 rpm for LXM05AD34N4, 380480 V, three phase 3000 rpm for LXM05BD34N4 at 10 A, 380480 V, three phase 3000 rpm for LXM05CD34N4, 380480 V, three phase 1500 rpm for LXM15MD28N4, 230 V, three phase 1500 rpm for LXM15LD28M3, 230 V, three phase 2500 rpm for LXM15MD28N4, 400 V, three phase 2500 rpm for LXM15MD28N4, 400 V, three phase 3000 rpm for LXM15MD28N4, 480 V, three phase 3000 rpm for LXM15MD28N4, 480 V, three phase 3000 rpm for LXM15MD28N4, 480 V, three phase 3000 rpm for LXM15MD40N4, 480 V, three phase					
	COOK IPITE TO LANGUAGINA 400 V, BILEE PHOSE					
Product compatibility	LXM15LD28M3 at 230 V three phase LXM05AD34N4 at 380480 V three phase LXM05BD34N4 at 380480 V three phase LXM05CD34N4 at 380480 V three phase LXM15MD28N4 at 400 V three phase LXM15MD28N4 at 480 V three phase LXM15MD40N4 at 400 V three phase LXM15MD40N4 at 480 V three phase LXM15MD40N4 at 480 V three phase LXM15MD40N4 at 480 V three phase LXM15MD28N4 at 230 V three phase					
Shaft end	Untapped					
IP degree of protection	IP65 standard IP67 with IP67 kit					
Speed feedback resolution	131072 points/turn x 4096 turns					
Holding brake	With					
Mounting support	International standard flange					
Electrical connection	Rotatable right-angled connectors					
Complementary						
Range compatibility	Lexium 05 Lexium 32 Lexium 15					
supply voltage max	480 V					
Network number of phases	Three phase					
Continuous stall current	7.8 A					
maximum continuous power	3.6 W					
Maximum current Irms	20.8 A for LXM15LD28M3 20.8 A for LXM15MD28N4 20.8 A for LXM15MD40N4 20.8 A for LXM05AD34N4 20.8 A for LXM05BD34N4 20.8 A for LXM05CD34N4 20.8 A for LXM32.D30N4					
Maximum permanent current	20.8 A					
Switching frequency	8 kHz					
Second shaft	Without second shaft end					
Shaft diameter	24 mm					
Shaft length	50 mm					
Feedback type	Multiturn SinCos Hiperface					
Holding torque 23 N.m holding brake						
Motor flange size	140 mm					
Number of motor stacks	1					
Torque constant	1.43 N.m/A at 120 °C					
Back emf constant 100 V/krpm at 120 °C						

Number of motor poles	5.0					
Rotor inertia	9.21 kg.cm ²					
Stator resistance	1.41 Ohm at 20 °C					
Stator inductance	8.17 mH at 20 °C					
Stator electrical time constant	11.06 ms at 20 °C					
Maximum radial force Fr	1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm					
Maximum axial force Fa	0.2 x Fr					
Brake pull-in power	24 W					
type of cooling	Natural convection					
Length	255.5 mm					
Centring collar diameter	130 mm					
centring collar depth	3.5 mm					
Number of mounting holes	4					
Mounting holes diameter	11 mm					
Circle diameter of the mounting holes	165 mm					
Net weight	13 kg					
Sizing reference	BSH1401P					
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	25.91 cm				
Package 1 Width	20.07 cm				
Package 1 Length	59.44 cm				
Package 1 Weight	14.18 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)	3301
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

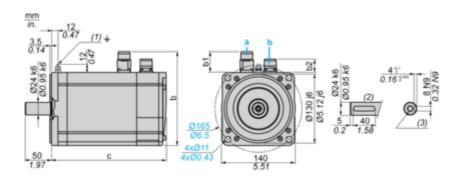
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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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)
- (3) For screws M8 x 19 mm/M8 x 0.75 in.

Dimensions in mm

Straig	ight connectors Rotatable angled connectors		onnectors	(د دا معرا لم در طالمان د	- (i4h h)		
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
178	39.5	25.5	178	39.5	39.5	218	256

Dimensions in in.

Straight connectors		Rotatable	Rotatable angled connectors		a (itha atha aadaa)	(د ا د ا د ا د ا	
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
7.00	1.55	1.00	7.00	1.55	1.55	8.58	10.07

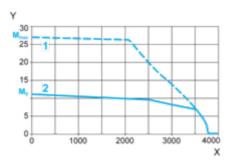
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



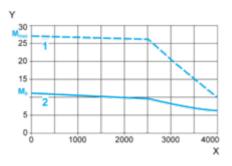
- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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