

AC servo motor BSH, Lexium 05, 11.1N.m, 1500rpm, keyed shaft, without brake, IP50

BSH1401P12A1A

Discontinued on: Jun 30, 2023

! Discontinued

Main

Product Or Component Type	Servo motor				
Device Short Name	BSH				
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, 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				
	11.4 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, 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				
	23.8 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, 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				
	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 LXM15MD40N4, 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, 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				
Nominal opeca	3000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase				
	3000 rpm for LXM05AD34N4, 380480 V, three phase				
	3000 rpm for LXM05BD34N4, 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 LXM15MD40N4, 400 V, three phase				
	3000 rpm for LXM15MD28N4, 480 V, three phase				
	3000 rpm for LXM15MD40N4, 480 V, three phase				
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				
	LXM15MD28N4 at 230 V three phase				
Shaft End	Keyed				
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	Straight connectors				
Complementary					
Range Compatibility	Lexium 32				
	Lexium 05				
	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				
Key Width	40 mm				
Feedback Type	Multiturn SinCos Hiperface				
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	10				

Rotor Inertia	7.41 kg.cm ²				
Stator Resistance	1.41 Ohm at 20 °C				
Stator Inductance	15.6 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				
Type Of Cooling	Natural convection				
Length	217.5 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	11.9 kg				

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	27.0 cm
Package 1 Width	27.0 cm
Package 1 Length	48.2 cm
Package 1 Weight	8.0 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

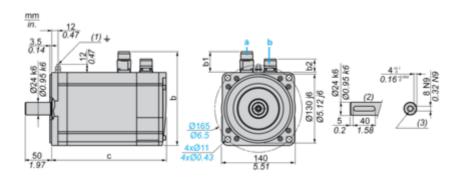
Pro-active compliance (Product out of EU RoHS legal scope)				
Product Environmental Profile				
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
No need of specific recycling operations				
WARNING: This product can expose 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)
- (3) For screws M8 x 19 mm/M8 x 0.75 in.

Dimensions in mm

Straight connectors			Rotatable angled connectors			a (with and bunder)	a (ith handsa)
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.

Straig	aight connectors 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

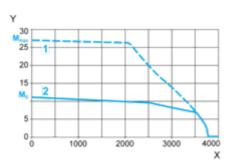
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

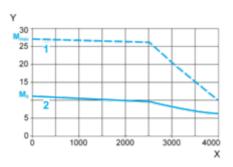


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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