Specifications



① Discontinued

AC servo motor BSH, Lexium 05, 11.1N.m, 1500rpm, keyed shaft, with brake, IP50

BSH1401P12F1A

() Discontinued on: Jun 30, 2023

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					
	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						
Iding Brake With						
Holding Brake	With					
Holding Brake Mounting Support	With International standard flange					

Complementary

Lexium 32				
Lexium 05				
Lexium 15				
480 V				
Three phase				
7.8 A				
3.6 W				
20.8 A for LXM15LD28M3				
20.8 A for LXM15MD28N4				
20.8 A for LXM15MD2014				
20.8 A for LXM05AD34N4				
20.8 A for LXM05BD34N4				
20.8 A for LXM05CD34N4				
20.8 A for LXM32.D30N4				
20.8 A				
8 kHz				
Without second shaft end				
24 mm				
50 mm				
40 mm				
Multiturn SinCos Hiperface				
23 N.m holding brake				
140 mm				
1				
1.43 N.m/A at 120 °C				
100 V/krpm at 120 °C				

Number Of Motor Poles	10			
Rotor Inertia	9.21 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			
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			

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	9.79 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 >



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Transparency RoHS/REACh

Well-being performance



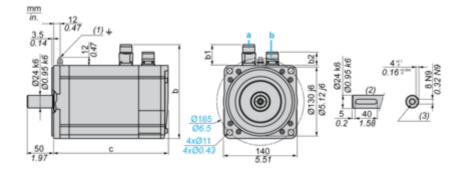
Certifications & Standards

Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)				
Eu Rohs Directive					
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				
California Proposition 65	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				

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	Straight connectors		Rotatable angled connectors				e (with heales)
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.

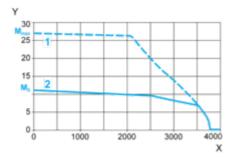
Straight connectors			Rotatable angled connectors				
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
7.00	1.55	1.00	7.00	1.55	1.55	8.58	10.07

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



 \boldsymbol{X} Speed in rpm

Y Torque in Nm

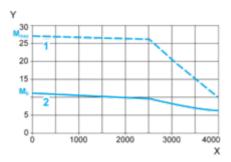
1 Peak torque

2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque