Product data sheet

Specifications





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

BSH1401P02A2A

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 3,307.50 USD

Main

Product Or Component Type	Servo motor				
Device Short Name	BSH				
Maximum Mechanical Speed	4000 rpm 98.24 lbf.in (11.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 98.24 lbf.in (11.1 N.m) LXM32.D30N4 10 A, 480 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28N4, 400 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28N4, 480 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28N4, 480 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28N4, 480 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD40N4, 400 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28M3, 230 V, three phase 98.24 lbf.in (11.1 N.m) LXM15MD28M3, 230 V, three phase 100.90 lbf.in (11.4 N.m) LXM05D234N4, 380480 V, three phase 100.90 lbf.in (11.4 N.m) LXM05D234N4, 380480 V, three phase 100.90 lbf.in (27 N.m) LXM32.D30N4 10 A, 400 V, three phase 238.97 lbf.in (27 N.m) LXM32.D30N4 10 A, 400 V, three phase 206.49 lbf.in (23.33 N.m) LXM15MD28N4, 230 V, three phase 206.49 lbf.in (23.33 N.m) LXM15MD28N4, 480 V, three phase 206.49 lbf.in (23.33 N.m) LXM15MD28N4, 480 V, three phase 206.49 lbf.in (23.33 N.m) LXM15MD28N4, 480 V, three phase 206.49 lbf.in (23.33 N.m) LXM15MD28N4, 380480 V, three phase 206.49 lbf.in (23.33 N.m) LXM05D34N4, 380480 V, three phase 206.49 lbf.in (23.33 N.m) LXM05D34N4, 380480 V, three phase 206.49 lbf.in (23.33 N.m) LXM05D34N4, 380480 V, three phase				
Continuous Stall Torque					
Peak Stall Torque					
Nominal Output Power					
Nominal Torque	84.08 lbf.in (9.5 N.m) LXM32.D30N4 10 A, 400 V, three phase 84.08 lbf.in (9.5 N.m) LXM32.D30N4 10 A, 480 V, three phase 60.18 lbf.in (6.8 N.m) LXM15MD28N4, 480 V, three phase 61.07 lbf.in (6.8 N.m) LXM15MD40N4, 480 V, three phase 61.07 lbf.in (6.9 N.m) LXM05AD34N4, 380480 V, three phase 61.07 lbf.in (6.9 N.m) LXM05D34N4, 380480 V, three phase 61.07 lbf.in (6.9 N.m) LXM05CD34N4, 380480 V, three phase 61.07 lbf.in (6.9 N.m) LXM05CD34N4, 380480 V, three phase 67.53 lbf.in (7.63 N.m) LXM15MD28N4, 400 V, three phase 67.53 lbf.in (7.63 N.m) LXM15MD28N4, 400 V, three phase 80.54 lbf.in (9.1 N.m) LXM15DD28N4, 230 V, three phase 80.54 lbf.in (9.1 N.m) LXM15MD28N4, 230 V, three phase				

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Nominal Speed	2500 rpm LXM32.D30N4 10 A, 400 V, three phase 3000 rpm LXM32.D30N4 10 A, 480 V, three phase 3000 rpm LXM05AD34N4, 380480 V, three phase 3000 rpm LXM05BD34N4, 380480 V, three phase 3000 rpm LXM05CD34N4, 380480 V, three phase 1500 rpm LXM15MD28N4, 230 V, three phase 1500 rpm LXM15LD28M3, 230 V, three phase 2500 rpm LXM15MD28N4, 400 V, three phase 2500 rpm LXM15MD28N4, 400 V, three phase 3000 rpm LXM15MD28N4, 480 V, three phase 3000 rpm LXM15MD28N4, 480 V, three phase				
Product Compatibility	LXM15LD28M3 230 V three phase LXM05AD34N4 380480 V three phase				
	LXM05BD34N4 380480 V three phase				
	LXM05CD34N4 380480 V three phase				
	LXM15MD28N4 400 V three phase				
	LXM15MD28N4 480 V three phase				
	LXM15MD40N4 400 V three phase				
	LXM15MD40N4 480 V three phase				
	LXM15MD28N4 230 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

<u> </u>					
Range Compatibility	Lexium 15				
0 1 3	Lexium 32				
	Lexium 05				
Supply Voltage Max	480 V				
Phase	Three phase				
Continuous Stall Current	7.8 A				
Maximum Continuous Power	3.6 W				
Maximum Current Irms	20.8 A LXM15LD28M3				
	20.8 A LXM15MD28N4				
	20.8 A LXM15MD40N4				
	20.8 A LXM05AD34N4				
	20.8 A LXM05BD34N4				
	20.8 A LXM05CD34N4				
	20.8 A LXM32.D30N4				
Maximum Permanent Current	20.8 A				
Switching Frequency	8 kHz				
Second Shaft	Without second shaft end				
Shaft Diameter	0.94 in (24 mm)				
Shaft Length	1.97 in (50 mm)				
Feedback Type	Multiturn SinCos Hiperface				
Motor Flange Size	5.51 in (140 mm)				
Number Of Motor Stacks	1				
Torque Constant	1.43 N.m/A 248 °F (120 °C)				
Back Emf Constant	100 V/krpm 248 °F (120 °C)				
Number Of Motor Poles	10				
Rotor Inertia	7.41 kg.cm ²				

Stator Resistance	1.41 Ohm 68 °F (20 °C)			
Stator Inductance	15.6 mH 68 °F (20 °C)			
Stator Electrical Time Constant	11.06 ms 68 °F (20 °C)			
Maximum Radial Force Fr	1530 N 3000 rpm 1760 N 2000 rpm 2210 N 1000 rpm			
Maximum Axial Force Fa	0.2 x Fr			
Type Of Cooling	Natural convection			
Length	8.56 in (217.5 mm)			
Centring Collar Diameter	5.12 in (130 mm)			
Centring Collar Depth	0.14 in (3.5 mm)			
Number Of Mounting Holes	4			
Mounting Holes Diameter	0.43 in (11 mm)			
Circle Diameter Of The Mounting Holes	6.50 in (165 mm)			
Net Weight	26.24 lb(US) (11.9 kg)			

Ordering and shipping details

Category	US1PC5318282			
Discount Schedule	PC53			
Gtin	3389118140790			
Returnability	No			
Country Of Origin	DE			

Packing Units

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Unit Type Of Package 1	PCE				
Number Of Units In Package 1	1				
Package 1 Height	10.63 in (27.0 cm)				
Package 1 Width	10.63 in (27.0 cm)				
Package 1 Length	18.98 in (48.2 cm)				
Package 1 Weight	17.64 lb(US) (8.0 kg)				

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

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

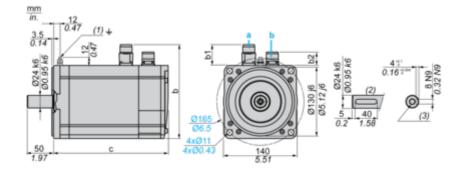
Certifications & Standards

Reach Regulation	REACh Declaration					
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
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				a (with brake)		
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.

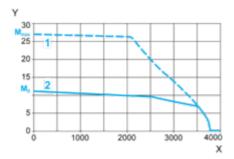
Straight connectors			Rotatable angled connectors			a (without brake)	o (with broko)
b	b1	b2	b	b1	b2	c (without brake)	c (with brake)
7.00	1.55	1.00	7.00	1.55	1.55	8.58	10.07

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

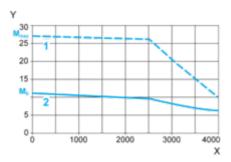
1 Peak torque

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