

AC servo motor BSH, Lexium 05, 9.31N.m, 1500rpm, keyed shaft, without brake, IP65

BSH1004P32A1A

Discontinued on: Jun 30, 2023

(!) Discontinued

Main

Product Or Component Type	Servo motor					
Device Short Name	BSH					
Maximum Mechanical Speed	6000 rpm					
Continuous Stall Torque	8 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 8 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 9.31 N.m for LXM15MD40N4, 400 V, three phase 9.31 N.m for LXM15MD40N4, 480 V, three phase 9.31 N.m for LXM15MD28M3, 230 V, three phase 9.31 N.m for LXM15MD28N4, 230 V, three phase 9.31 N.m for LXM15MD28N4, 400 V, three phase 9.31 N.m for LXM15MD28N4, 480 V, three phase 9.31 N.m for LXM15MD28N4, 480 V, three phase 9.31 N.m for LXM15MD40N4, 230 V, three phase 9.31 N.m for LXM05AD34N4, 380480 V, three phase 9.31 N.m for LXM05AD42M3X, 200240 V, three phase 9.31 N.m for LXM05AD57N4, 380480 V, three phase 9.31 N.m for LXM05BD34N4, 380480 V, three phase 9.31 N.m for LXM05BD42M3X, 200240 V, three phase 9.31 N.m for LXM05BD57N4, 380480 V, three phase 9.31 N.m for LXM05BD57N4, 380480 V, three phase 9.31 N.m for LXM05BD57N4, 380480 V, three phase 9.31 N.m for LXM05CD34N4, 380480 V, three phase 9.31 N.m for LXM05CD34N4, 380480 V, three phase 9.31 N.m for LXM05CD42M3X, 200240 V, three phase					

Peak Stall Torque

37.9 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 37.9 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 25.7 N.m for LXM15MD28M3, 230 V, three phase 25.7 N.m for LXM15MD28N4, 230 V, three phase 25.7 N.m for LXM15MD28N4, 400 V, three phase 25.7 N.m for LXM15MD28N4, 480 V, three phase 33.83 N.m for LXM15MD40N4, 230 V, three phase 33.83 N.m for LXM15MD40N4, 400 V, three phase 33.83 N.m for LXM15MD40N4, 480 V, three phase 23.47 N.m for LXM05AD34N4, 380...480 V, three phase 35.7 N.m for LXM05AD42M3X, 200...240 V, three phase 35.7 N.m for LXM05AD57N4, 380...480 V, three phase 23.47 N.m for LXM05BD34N4, 380...480 V, three phase 35.7 N.m for LXM05BD42M3X, 200...240 V, three phase 35.7 N.m for LXM05BD57N4, 380...480 V, three phase 23.47 N.m for LXM05CD34N4, 380...480 V, three phase 35.7 N.m for LXM05CD42M3X, 200...240 V, three phase 35.7 N.m for LXM05CD57N4, 380...480 V, three phase

Nominal	Output	Power
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2600 W for LXM32.D30N4 at 10 A, 480 V, three phase 2100 W for LXM32.D30N4 at 10 A, 400 V, three phase 1300 W for LXM05AD42M3X, 200...240 V, three phase 1300 W for LXM05BD42M3X, 200...240 V, three phase 1300 W for LXM05CD42M3X, 200...240 V, three phase 1300 W for LXM15MD28M3, 230 V, three phase 1300 W for LXM15MD28N4, 230 V, three phase 1300 W for LXM15MD40N4, 230 V, three phase 2200 W for LXM05AD34N4, 380...480 V, three phase 2200 W for LXM05AD57N4, 380...480 V, three phase 2200 W for LXM05BD34N4, 380...480 V, three phase 2200 W for LXM05BD57N4, 380...480 V, three phase 2200 W for LXM05CD34N4, 380...480 V, three phase 2200 W for LXM05CD57N4, 380...480 V, three phase 2200 W for LXM15MD28N4, 400 V, three phase 2300 W for LXM15MD40N4, 400 V, three phase 2400 W for LXM15MD40N4 480 V, three phase 2700 W for LXM15MD28N4, 480 V, three phase

Nominal Torque

8.3 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 8.3 N.m for LXM32.D30N4 at 10 A, 480 V, three phase 6.5 N.m for LXM15MD28N4, 480 V, three phase 6.69 N.m for LXM15MD40N4, 480 V, three phase 7 N.m for LXM15MD28N4, 400 V, three phase 7.1 N.m for LXM05AD34N4, 380...480 V, three phase 7.1 N.m for LXM05AD57N4, 380...480 V, three phase 7.1 N.m for LXM05BD34N4, 380...480 V, three phase 7.1 N.m for LXM05BD57N4, 380...480 V, three phase 7.1 N.m for LXM05CD34N4, 380...480 V, three phase 7.1 N.m for LXM05CD57N4, 380...480 V, three phase 7.17 N.m for LXM15MD40N4, 400 V, three phase 8.18 N.m for LXM15MD40N4, 230 V, three phase 8.22 N.m for LXM05AD42M3X, 200...240 V, three phase 8.22 N.m for LXM05BD42M3X, 200...240 V, three phase 8.22 N.m for LXM05CD42M3X, 200...240 V, three phase $8.22\ \text{N.m}$ for LXM15LD28M3, 230 V, three phase 8.22 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 1500 rpm for LXM05AD42M3X, 200...240 V, three phase 1500 rpm for LXM05BD42M3X, 200...240 V, three phase 1500 rpm for LXM05CD42M3X, 200...240 V, three phase 3000 rpm for LXM05AD34N4, 380...480 V, three phase 3000 rpm for LXM05BD34N4, 380...480 V, three phase 3000 rpm for LXM05CD34N4, 380...480 V, three phase 1500 rpm for LXM15MD28M3, 230 V, three phase 1500 rpm for LXM15MD28N4, 230 V, three phase 1500 rpm for LXM15MD40N4, 230 V, three phase 3000 rpm for LXM05AD57N4, 380...480 V, three phase 3000 rpm for LXM05BD57N4, 380...480 V, three phase 3000 rpm for LXM05CD57N4, 380...480 V, three phase 3000 rpm for LXM15MD28N4, 400 V, three phase 3000 rpm for LXM15MD40N4, 400 V, three phase 3500 rpm for LXM15MD40N4, 480 V, three phase 4000 rpm for LXM15MD28N4, 480 V, three phase

Product Compatibility

LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM05AD34N4 at 380...480 V three phase LXM05BD34N4 at 380...480 V three phase LXM05CD34N4 at 380...480 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 LXM32.D30N4 at 400 V three phase LXM32.D30N4 at 480 V three phase LXM05AD57N4 at 380...480 V three phase LXM05BD57N4 at 380...480 V three phase LXM05CD57N4 at 380...480 V three phase LXM15MD28M3 at 230 V three phase LXM15MD28N4 at 230 V three phase LXM15MD40N4 at 230 V three phase

LXM05AD42M3X at 200...240 V three phase

Shaft End

Keyed

Ip Degree Of Protection	IP65 standard IP67 with IP67 kit
Speed Feedback Resolution	131072 points/turn x 4096 turns
Holding Brake	Without
Mounting Support	International standard flange
Electrical Connection	Straight connectors
0 1	
Complementary	
Range Compatibility	Lexium 05 Lexium 15 Lexium 32
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	6.2 A
Maximum Continuous Power	3.64 W
Maximum Current Irms	34.8 A for LXM15LD28M3 34.8 A for LXM15MD28N4 34.8 A for LXM05AD42M3X 32.3 A for LXM05AD34N4 32.3 A for LXM05AD57N4 32.3 A for LXM05BD42M3X 32.3 A for LXM05BD34N4 32.3 A for LXM05BD57N4 32.3 A for LXM05BD57N4 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD34N4 32.3 A for LXM05CD34N4 30.3 A for LXM05CD57N4
Maximum Permanent Current	32.3 A
Switching Frequency	8 kHz
Switching Frequency	8 kHz
Switching Frequency Second Shaft	8 kHz Without second shaft end
Switching Frequency Second Shaft Shaft Diameter	8 kHz Without second shaft end 24 mm
Switching Frequency Second Shaft Shaft Diameter Shaft Length	8 kHz Without second shaft end 24 mm 50 mm
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width	8 kHz Without second shaft end 24 mm 50 mm 40 mm
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant Number Of Motor Poles	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant Number Of Motor Poles Rotor Inertia	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C 8 4.22 kg.cm²
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant Number Of Motor Poles Rotor Inertia Stator Resistance	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C 8 4.22 kg.cm² 1.81 Ohm at 20 °C
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant Number Of Motor Poles Rotor Inertia Stator Resistance Stator Inductance	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C 8 4.22 kg.cm² 1.81 Ohm at 20 °C 11.8 mH at 20 °C
Switching Frequency Second Shaft Shaft Diameter Shaft Length Key Width Feedback Type Motor Flange Size Number Of Motor Stacks Torque Constant Back Emf Constant Number Of Motor Poles Rotor Inertia Stator Resistance Stator Inductance Stator Electrical Time Constant	8 kHz Without second shaft end 24 mm 50 mm 40 mm Multiturn SinCos Hiperface 100 mm 4 1.62 N.m/A at 120 °C 103 V/krpm at 120 °C 8 4.22 kg.cm² 1.81 Ohm at 20 °C 11.8 mH at 20 °C 6.52 ms at 20 °C 1070 N at 1000 rpm 740 N at 3000 rpm

Length	276.5 mm
Centring Collar Diameter	95 mm
Centring Collar Depth	3.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	9 mm
Circle Diameter Of The Mounting Holes	115 mm
Net Weight	9.5 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18.3 cm
Package 1 Width	16.3 cm
Package 1 Length	49.2 cm
Package 1 Weight	7.5 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

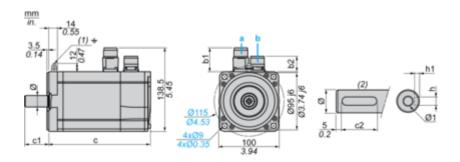
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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

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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 connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	h	h1	Ø	Ø1 for screws
b1 39.5	b2 25.5	b1 39.5	b2 39.5	277	308	50	40	8	4 ^{+0.1} 0	24	M8 x 19
00.0	20.0	00.0	00.0	211			10	N9	. 0	k6	MOX 10

Dimensions in in.

Straight connectors		Rotatable angled connectors			c (with	c1	c2	h	h1	Ø	Ø1 for
b1	b2	b1	b2	brake)	ake) brake)						screws
1.55	1.00	1.55	1.55	10.90	12.12	1.96	1.57	0.31 N9	0.16 ^{+0.1} ₀	0.94 k6	M8 x 0.75

Product data sheet

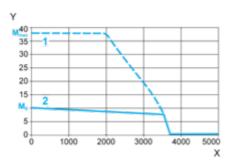
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

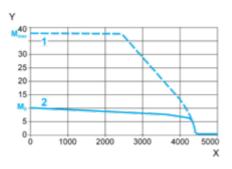


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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