Product data sheet

Specification





AC servo motor BSH, Lexium 05, 5.5N.m, 4000rpm, keyed shaft, with brake, IP50

BSH1002T11F2A

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

Price*: 2,797.50 USD

Main

Product Or Component Type	Servo motor						
Device Short Name	BSH						
Maximum Mechanical Speed	6000 rpm						
Continuous Stall Torque	51.33 lbf.in (5.8 N.m) LXM32.D30M2 10 A, 230 V, single phase 48.68 lbf.in (5.5 N.m) LXM15LD28M3, 230 V, three phase 48.68 lbf.in (5.5 N.m) LXM05AD42M3X, 200240 V, three phase 48.68 lbf.in (5.5 N.m) LXM05BD42M3X, 200240 V, three phase 48.68 lbf.in (5.5 N.m) LXM05CD42M3X, 200240 V, three phase						
Peak Stall Torque	145.15 lbf.in (16.4 N.m) LXM32.D30M2 10 A, 230 V, single phase 102.58 lbf.in (11.59 N.m) LXM15LD28M3, 230 V, three phase 141.61 lbf.in (16 N.m) LXM05AD42M3X, 200240 V, three phase 141.61 lbf.in (16 N.m) LXM05BD42M3X, 200240 V, three phase 141.61 lbf.in (16 N.m) LXM05CD42M3X, 200240 V, three phase						
Nominal Output Power	1500 W LXM32.D30M2 10 A, 230 V, single phase 1400 W LXM05AD42M3X, 200240 V, three phase 1400 W LXM05BD42M3X, 200240 V, three phase 1400 W LXM05CD42M3X, 200240 V, three phase 1700 W LXM15LD28M3, 230 V, three phase						
Nominal Torque	32.75 lbf.in (3.7 N.m) LXM32.D30M2 10 A, 230 V, single phase 35.40 lbf.in (4 N.m) LXM15LD28M3, 230 V, three phase 38.94 lbf.in (4.4 N.m) LXM05AD42M3X, 200240 V, three phase 38.94 lbf.in (4.4 N.m) LXM05BD42M3X, 200240 V, three phase 38.94 lbf.in (4.4 N.m) LXM05BD42M3X, 200240 V, three phase						
Nominal Speed	4000 rpm LXM32.D30M2 10 A, 230 V, single phase 3000 rpm LXM05AD42M3X, 200240 V, three phase 3000 rpm LXM05BD42M3X, 200240 V, three phase 3000 rpm LXM05CD42M3X, 200240 V, three phase 4000 rpm LXM15LD28M3, 230 V, three phase						
Product Compatibility	LXM32.D30M2 230 V single phase LXM05AD42M3X 200240 V three phase LXM05BD42M3X 200240 V three phase LXM05CD42M3X 200240 V three phase LXM15LD28M3 230 V three phase						
Shaft End	Keyed						
Ip Degree Of Protection	IP50 standard						
Speed Feedback Resolution	131072 points/turn						
Holding Brake	With						
Mounting Support	International standard flange						
Electrical Connection	Rotatable right-angled connectors						

Complementary

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

Range Compatibility	Lexium 15 Lexium 32 Lexium 05
Supply Voltage Max	480 V
Phase	Three phase
Continuous Stall Current	9.9 A
Maximum Continuous Power	2.51 W
Maximum Current Irms	31.2 A LXM15LD28M3 35.4 A LXM05AD42M3X 35.4 A LXM05BD42M3X 35.4 A LXM05CD42M3X 30 A LXM32.D30M2
Maximum Permanent Current	35.4 A
Switching Frequency	8 kHz
Second Shaft	Without second shaft end
Shaft Diameter	0.75 in (19 mm)
Shaft Length	1.57 in (40 mm)
Key Width	1.18 in (30 mm)
Feedback Type	Single turn SinCos Hiperface
Holding Torque	79.66 lbf.in (9 N.m) holding brake
Motor Flange Size	3.94 in (100 mm)
Number Of Motor Stacks	2
Torque Constant	0.59 N.m/A 248 °F (120 °C)
Back Emf Constant	37 V/krpm 248 °F (120 °C)
Number Of Motor Poles	8
Rotor Inertia	2.928 kg.cm ²
Stator Resistance	0.56 Ohm 68 °F (20 °C)
Stator Inductance	3 mH 68 °F (20 °C)
Stator Electrical Time Constant	5.36 ms 68 °F (20 °C)
Maximum Radial Force Fr	620 N 4000 rpm 690 N 3000 rpm 790 N 2000 rpm 990 N 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	18 W
Type Of Cooling	Natural convection
Length	9.27 in (235.5 mm)
Centring Collar Diameter	3.74 in (95 mm)
Centring Collar Depth	0.14 in (3.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.35 in (9 mm)
Circle Diameter Of The Mounting Holes	4.53 in (115 mm)
Net Weight	13.89 lb(US) (6.3 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3389118139527
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.06 in (15.4 cm)
Package 1 Width	6.42 in (16.3 cm)
Package 1 Length	16.02 in (40.7 cm)
Package 1 Weight	14.22 lb(US) (6.45 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



Certifications & Standards

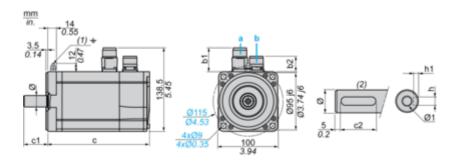
Reach Regulation	REACh Declaration					
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
China Rohs Regulation	China RoHS declaration					
Environmental Disclosure	Product Environmental Profile					
Weee	The product must be disposed on European Union markets following 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
b1	b2	b1	b2	biake)	brake)						screws
39.5	25.5	39.5	39.5	205	236	40	30	6 N9	3.5 ^{+0.1} ₀	19 k6	M6 x 16

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without	c (with	c1	c2	h	h1	Ø	Ø1 for
b1	b2	b1	b2	brake)	brake)						screws
1.55	1.00	1.55	1.55	8.07	9.29	1.57	1.18	0.24 N9	0.14 ^{+0.1} 0	0.75 k6	M6 x 0.63

Product data sheet

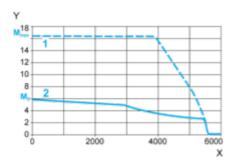
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Performance Curves

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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