Product data sheet

Specifications





AC servo motor BSH, Lexium 05, 2.83N.m, 6000rpm, keyed shaft, with brake, IP65

BSH0703T32F2A

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

Price*: 4,095.00 USD

Main

Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	24.78 lbf.in (2.8 N.m) LXM05AD28M2, 200240 V, single phase
	24.78 lbf.in (2.8 N.m) LXM05BD28M2, 200240 V, single phase
	24.78 lbf.in (2.8 N.m) LXM05CD28M2, 200240 V, single phase
	23.01 lbf.in (2.6 N.m) LXM32.D18M2 6 A, 230 V, single phase
	25.05 lbf.in (2.83 N.m) LXM15LD28M3, 230 V, three phase
	24.78 lbf.in (2.8 N.m) LXM05AD28F1, 110120 V, single phase
	24.78 lbf.in (2.8 N.m) LXM05AD42M3X, 200240 V, three phase
	24.78 lbf.in (2.8 N.m) LXM05BD28F1, 110120 V, single phase
	24.78 lbf.in (2.8 N.m) LXM05BD42M3X, 200240 V, three phase
	24.78 lbf.in (2.8 N.m) LXM05CD28F1, 110120 V, single phase
	24.78 lbf.in (2.8 N.m) LXM05CD42M3X, 200240 V, three phase
Peak Stall Torque	65.32 lbf.in (7.38 N.m) LXM05AD28F1, 110120 V, single phase
	65.32 lbf.in (7.38 N.m) LXM05AD28M2, 200240 V, single phase
	65.32 lbf.in (7.38 N.m) LXM05BD28F1, 110120 V, single phase
	65.32 lbf.in (7.38 N.m) LXM05BD28M2, 200240 V, single phase
	65.32 lbf.in (7.38 N.m) LXM05CD28F1, 110120 V, single phase
	65.32 lbf.in (7.38 N.m) LXM05CD28M2, 200240 V, single phase
	65.50 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
	65.32 lbf.in (7.38 N.m) LXM15LD28M3, 230 V, three phase
	90.72 lbf.in (10.25 N.m) LXM05AD42M3X, 200240 V, three phase
	90.72 lbf.in (10.25 N.m) LXM05BD42M3X, 200240 V, three phase
	90.72 lbf.in (10.25 N.m) LXM05CD42M3X, 200240 V, three phase
Nominal Output Power	750 W LXM05AD28M2, 200240 V, single phase
	750 W LXM05BD28M2, 200240 V, single phase
	750 W LXM05CD28M2, 200240 V, single phase
	750 W LXM05AD28F1, 110120 V, single phase
	750 W LXM05BD28F1, 110120 V, single phase
	750 W LXM05CD28F1, 110120 V, single phase
	900 W LXM32.D18M2 6 A, 230 V, single phase
	1250 W LXM15LD28M3, 230 V, three phase
	750 W LXM05AD42M3X, 200240 V, three phase
	750 W LXM05BD42M3X, 200240 V, three phase
	750 W LXM05CD42M3X, 200240 V, three phase
Nominal Torque	21.24 lbf.in (2.4 N.m) LXM05AD28M2, 200240 V, single phase
	21.24 lbf.in (2.4 N.m) LXM05BD28M2, 200240 V, single phase
	21.24 lbf.in (2.4 N.m) LXM05CD28M2, 200240 V, single phase
	21.24 lbf.in (2.4 N.m) LXM05AD28F1, 110120 V, single phase
	21.24 lbf.in (2.4 N.m) LXM05BD28F1, 110120 V, single phase
	21.24 lbf.in (2.4 N.m) LXM05CD28F1, 110120 V, single phase
	18.59 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase
	10.39 IDLIT (2.1 N.IT) LAMSZ.D TOMZ 0 A, 230 V, Single phase
	17.70 lbf.in (2 N.m) LXM05.D128M3, 230 V, single phase 21.24 lbf.in (2 N.m) LXM05AD42M3X, 200240 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.

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3000 rpm LXM05AD28M2, 200240 V, single phase 3000 rpm LXM05BD28M2, 200240 V, single phase 3000 rpm LXM05CD28M2, 200240 V, single phase 3000 rpm LXM05AD42M3X, 200240 V, three phase
3000 rpm LXM05BD42M3X, 200240 V, three phase 3000 rpm LXM05CD42M3X, 200240 V, three phase 3000 rpm LXM05AD28F1, 110120 V, single phase 3000 rpm LXM05BD28F1, 110120 V, single phase 3000 rpm LXM05CD28F1, 110120 V, single phase 4000 rpm LXM32.D18M2 6 A, 230 V, single phase 6000 rpm LXM15LD28M3, 230 V, three phase
LXM05AD28F1 110120 V single phase LXM05AD28M2 200240 V single phase LXM05BD28F1 110120 V single phase LXM05BD28M2 200240 V single phase LXM05CD28F1 110120 V single phase LXM05CD28M2 200240 V single phase LXM05CD28M2 200240 V single phase LXM05AD42M3X 200240 V three phase LXM05BD42M3X 200240 V three phase LXM05CD42M3X 200240 V three phase LXM05CD42M3X 200240 V three phase LXM05CD42M3X 200240 V three phase
Keyed
IP65 standard IP67 with IP67 kit
131072 points/turn x 4096 turns
With
International standard flange
Rotatable right-angled connectors

Complementary

Range Compatibility	Lexium 05
5 1 5	Lexium 15
	Lexium 32
	Lexium 52
Supply Voltage Max	480 V
Phase	Three phase
Continuous Stall Current	7 A
Maximum Continuous Power	1.7 W
Maximum Current Irms	18 A LXM32.D18M2
	30.9 A LXM15LD28M3
	29.2 A LXM05AD28F1
	29.2 A LXM05AD28M2
	29.2 A LXM05AD42M3X
	29.2 A LXM05BD28F1
	29.2 A LXM05BD28M2
	29.2 A LXM05BD42M3X
	29.2 A LXM05DD28F1
	29.2 A LXM05CD28M2
	29.2 A LXM05CD42Mi2
	29.2 A LAM03CD42M3A
Maximum Permanent Current	29.2 A
Switching Frequency	8 kHz
Second Shaft	Without second shaft end
Shaft Diameter	0.55 in (14 mm)
Shaft Length	1.18 in (30 mm)
Key Width	0.79 in (20 mm)
Feedback Type	Multiturn SinCos Hiperface
Holding Torque	26.55 lbf.in (3 N.m) holding brake

Motor Flange Size	2.76 in (70 mm)
Number Of Motor Stacks	3
Torque Constant	0.44 N.m/A 248 °F (120 °C)
Back Emf Constant	29 V/krpm 248 °F (120 °C)
Number Of Motor Poles	6
Rotor Inertia	0.81 kg.cm ²
Stator Resistance	0.91 Ohm 68 °F (20 °C)
Stator Inductance	4.4 mH 68 °F (20 °C)
Stator Electrical Time Constant	4.84 ms 68 °F (20 °C)
Maximum Radial Force Fr	400 N 6000 rpm 430 N 5000 rpm 460 N 4000 rpm 510 N 3000 rpm 580 N 2000 rpm 730 N 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	12 W
Type Of Cooling	Natural convection
Length	10.00 in (254 mm)
Centring Collar Diameter	2.36 in (60 mm)
Centring Collar Depth	0.10 in (2.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.22 in (5.5 mm)
Circle Diameter Of The Mounting Holes	3.23 in (82 mm)
Net Weight	8.38 lb(US) (3.8 kg)

Ordering and shipping details

Category	
Category	US1PC5318282
Discount Schedule	PC53
Gtin	3389118137752
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.89 in (17.5 cm)
Package 1 Width	6.34 in (16.1 cm)
Package 1 Length	17.91 in (45.5 cm)
Package 1 Weight	10.02 lb(US) (4.547 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

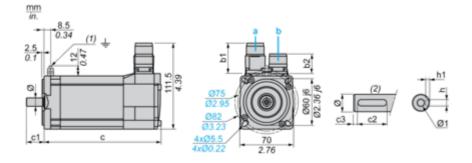
Certifications & Standards

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)

Dimensions in mm

, , , , , , , , , , , , , , , , , , ,		Rotatable connector	•	c (without	c (with	c1	c2	c3	h	h1	ø	Ø1 for
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	220	254	30	20	5	5 N9	3 ^{+0.1} 0	14 k6	M5 x 12.5

Dimensions in in.

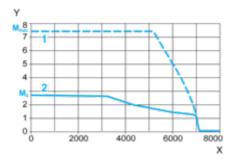
Straight connectors		Rotatat angled connec	tors	c (without brake)	c (with brake)	c1	c2	c3	h	h1	ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1.00	1.55	1.55	8.66	10.00	1.18	0.78	0.19	0.20 N9	0.12 ^{+0.004} 0	0.55 k6	M5 x 0.49

Performance Curves

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



 ${\bf X}$ Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque