

BSH0552T22A1A

AC servo motor BSH, Lexium 05, 0.9N.m,
6000rpm, untapped shaft, without brake, IP65





Main

Product or Component Type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	7.08 Lbf.In (0.8 N.m) LXM32.U90M2 3 A, 115 V, single phase 7.08 Lbf.In (0.8 N.m) LXM32.U90M2 3 A, 230 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05CD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD10M3X, 200...240 V, three phase 7.97 Lbf.In (0.9 N.m) LXM05BD10M3X, 200...240 V, three phase 7.97 Lbf.In (0.9 N.m) LXM05CD10M3X, 200...240 V, three phase 7.97 Lbf.In (0.9 N.m) LXM15LD13M3, 230 V, single phase 7.97 Lbf.In (0.9 N.m) LXM15LD13M3, 230 V, three phase 6.82 Lbf.In (0.77 N.m) LXM05CU70M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD10F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD17F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD10F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD17F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05CD10F1, 110...120 V, single phase 7.97 lbf.in (0.9 N.m) LXM05CD17F1, 110...120 V, single phase
Peak stall torque	16.82 Lbf.In (1.9 N.m) LXM32.U90M2 3 A, 115 V, single phase 22.13 Lbf.In (2.5 N.m) LXM32.U90M2 3 A, 230 V, single phase 13.28 Lbf.In (1.5 N.m) LXM15LD13M3, 230 V, single phase 11.59 Lbf.In (1.31 N.m) LXM05CU70M2, 200...240 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05AD10F1, 110...120 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05AD10M2, 200...240 V, single phase 23.90 Lbf.In (2.7 N.m) LXM05AD17F1, 110...120 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05BD10F1, 110...120 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05BD10M2, 200...240 V, single phase 23.90 Lbf.In (2.7 N.m) LXM05BD17F1, 110...120 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05CD10F1, 110...120 V, single phase 15.67 Lbf.In (1.77 N.m) LXM05CD10M2, 200...240 V, single phase 23.90 Lbf.In (2.7 N.m) LXM05CD17F1, 110...120 V, single phase 13.28 Lbf.In (1.5 N.m) LXM15LD13M3, 230 V, three phase 15.67 Lbf.In (1.77 N.m) LXM05AD10M3X, 200...240 V, three phase 15.67 Lbf.In (1.77 N.m) LXM05BD10M3X, 200...240 V, three phase 15.67 lbf.in (1.77 N.m) LXM05CD10M3X, 200...240 V, three phase

Nominal output power	250 W LXM32.U90M2 3 A, 115 V, single phase 450 W LXM32.U90M2 3 A, 230 V, single phase 240 W LXM05CU70M2, 200...240 V, single phase 250 W LXM05AD10F1, 110...120 V, single phase 250 W LXM05AD17F1, 110...120 V, single phase 250 W LXM05BD10F1, 110...120 V, single phase 250 W LXM05BD17F1, 110...120 V, single phase 250 W LXM05CD10F1, 110...120 V, single phase 250 W LXM05CD17F1, 110...120 V, single phase 450 W LXM05AD10M2, 200...240 V, single phase 450 W LXM05BD10M2, 200...240 V, single phase 450 W LXM05CD10M2, 200...240 V, single phase 450 W LXM15LD13M3, 230 V, single phase 450 W LXM05AD10M3X, 200...240 V, three phase 450 W LXM05BD10M3X, 200...240 V, three phase 450 W LXM05CD10M3X, 200...240 V, three phase 570 W LXM15LD13M3, 230 V, three phase
Nominal torque	6.82 Lbf.In (0.77 N.m) LXM32.U90M2 3 A, 115 V, single phase 6.55 Lbf.In (0.74 N.m) LXM32.U90M2 3 A, 230 V, single phase 6.37 Lbf.In (0.72 N.m) LXM15LD13M3, 230 V, single phase 6.82 Lbf.In (0.77 N.m) LXM05CU70M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD10F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05AD17F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD10F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05BD17F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05CD10F1, 110...120 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05CD10M2, 200...240 V, single phase 7.97 Lbf.In (0.9 N.m) LXM05CD17F1, 110...120 V, single phase 6.02 Lbf.In (0.68 N.m) LXM15LD13M3, 230 V, three phase 7.97 Lbf.In (0.9 N.m) LXM05AD10M3X, 200...240 V, three phase 7.97 Lbf.In (0.9 N.m) LXM05BD10M3X, 200...240 V, three phase 7.97 lbf.in (0.9 N.m) LXM05CD10M3X, 200...240 V, three phase
Nominal speed	3000 rpm LXM32.U90M2 3 A, 115 V, single phase 6000 rpm LXM32.U90M2 3 A, 230 V, single phase 3000 rpm LXM05AD10F1, 110...120 V, single phase 3000 rpm LXM05BD10F1, 110...120 V, single phase 3000 rpm LXM05CD10F1, 110...120 V, single phase 3000 rpm LXM05CU70M2, 200...240 V, single phase 6000 rpm LXM05AD10M2, 200...240 V, single phase 6000 rpm LXM05BD10M2, 200...240 V, single phase 6000 rpm LXM05CD10M2, 200...240 V, single phase 6000 rpm LXM05AD10M3X, 200...240 V, three phase 6000 rpm LXM05BD10M3X, 200...240 V, three phase 6000 rpm LXM05CD10M3X, 200...240 V, three phase 8000 rpm LXM15LD13M3, 230 V, three phase 3000 rpm LXM05AD17F1, 110...120 V, single phase 3000 rpm LXM05BD17F1, 110...120 V, single phase 3000 rpm LXM05CD17F1, 110...120 V, single phase 6000 rpm LXM15LD13M3, 230 V, single phase

Product compatibility	LXM05AD10F1 110...120 V single phase LXM05AD10M2 200...240 V single phase LXM05AD17F1 110...120 V single phase LXM05BD10F1 110...120 V single phase LXM05BD10M2 200...240 V single phase LXM05BD17F1 110...120 V single phase LXM05CD10F1 110...120 V single phase LXM05CD10M2 200...240 V single phase LXM05CD17F1 110...120 V single phase LXM05CU70M2 200...240 V single phase LXM15LD13M3 230 V single phase LXM32.U90M2 115 V single phase LXM32.U90M2 230 V single phase LXM05AD10M3X 200...240 V three phase LXM05BD10M3X 200...240 V three phase LXM05CD10M3X 200...240 V three phase LXM15LD13M3 230 V three phase
Shaft end	Untapped
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

Complementary

Range Compatibility	Lexium 15 Lexium 32 Lexium 05
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	2.2 A
Maximum continuous power	0.67 W
Maximum current Irms	6 A LXM32.U90M2 115 V 8.8 A LXM32.U90M2 230 V 10.3 A LXM15LD13M3 8.8 A LXM05AD10F1 8.8 A LXM05AD17F1 8.8 A LXM05CU70M2 8.8 A LXM05AD10M2 8.8 A LXM05AD10M3X 8.8 A LXM05BD10F1 8.8 A LXM05BD17F1 8.8 A LXM05BD10M2 8.8 A LXM05BD10M3X 8.8 A LXM05CD10F1 8.8 A LXM05CD17F1 8.8 A LXM05CD10M2 8.8 A LXM05CD10M3X
Maximum permanent current	8.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.35 in (9 mm)
Shaft length	0.79 in (20 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	2.17 in (55 mm)
Number of motor stacks	2
Torque constant	0.36 N.m/A 248 °F (120 °C)
Back emf constant	22 V/krpm 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.096 kg.cm ²
Stator resistance	5.2 Ohm 68 °F (20 °C)
Stator inductance	10.6 mH 68 °F (20 °C)
Stator electrical time constant	2.04 ms 68 °F (20 °C)

Maximum radial force Fr	190 N 7000 rpm 190 N 8000 rpm 200 N 6000 rpm 220 N 5000 rpm 230 N 4000 rpm 260 N 3000 rpm 290 N 2000 rpm 370 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.08 in (154.4 mm)
Centring collar diameter	1.57 in (40 mm)
Centring collar depth	0.08 in (2 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.48 in (63 mm)
Net Weight	3.31 lb(US) (1.5 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3389118159143
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.84 in (12.3 cm)
Package 1 Width	5.04 in (12.8 cm)
Package 1 Length	14.84 in (37.7 cm)
Package 1 Weight	2.43 lb(US) (1.1 kg)

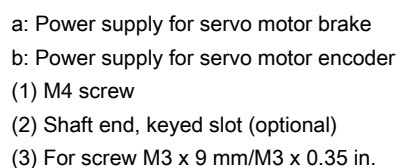
Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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Example with Straight Connectors



Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
39.5	25.5	39.5	39.5	154.5	181

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	6.08	7.12

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



X Speed in rpm

Y Torque in Nm

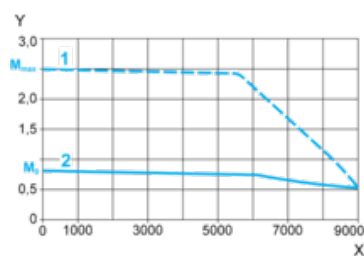
1 Peak torque

2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque