Product data sheet Characteristics

BSH0552T02A2A

AC servo motor BSH - 0.9 N.m - 6000 rpm - untapped shaft - without brake - IP50





Main

Main	
Commercial Status	Commercialised
Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	0.8 N.m for LXM32.U90M2 3 A at 230 V single phase
	0.8 N.m for LXM32.U90M2 3 A at 115 V single phase
	0.9 N.m for LXM05CD17F1 at 110120 V single phase
	0.9 N.m for LXM05CD10F1 at 110120 V single phase
	0.9 N.m for LXM05BD17F1 at 110120 V single phase
	0.9 N.m for LXM05BD10F1 at 110120 V single phase
	0.9 N.m for LXM05AD17F1 at 110120 V single phase
	0.9 N.m for LXM05AD10F1 at 110120 V single phase
	0.77 N.m for LXM05CU70M2 at 200240 V single phase
	0.9 N.m for LXM15LD13M3 at 230 V three phase 0.9 N.m for LXM15LD13M3 at 230 V single phase
	0.9 N.m for LXM05CD10M3X at 200240 V three phase
	0.9 N.m for LXM05BD10M3X at 200240 V three phase
	0.9 N.m for LXM05AD10M3X at 200240 V three phase
	0.9 N.m for LXM05CD10M2 at 200240 V single phase
	0.9 N.m for LXM05BD10M2 at 200240 V single phase
	0.9 N.m for LXM05AD10M2 at 200240 V single phase
Peak stall torque	1.77 N.m for LXM05CD10M3X at 200240 V three
	phase 1.77 N.m for LXM05BD10M3X at 200240 V three
	phase 1.77 N.m for LXM05AD10M3X at 200240 V three
	phase 1.5 N.m for LXM15LD13M3 at 230 V three phase
	2.5 N.m for LXM32.U90M2 3 A at 230 V single phase
	1.9 N.m for LXM32.U90M2 3 A at 115 V single phase
	2.7 N.m for LXM05CD17F1 at 110120 V single phase
	1.77 N.m for LXM05CD10M2 at 200240 V single phase
	1.77 N.m for LXM05CD10F1 at 110120 V single phase
	2.7 N.m for LXM05BD17F1 at 110120 V single phase
	1.77 N.m for LXM05BD10M2 at 200240 V single phase
	1.77 N.m for LXM05BD10F1 at 110120 V single phase
	2.7 N.m for LXM05AD17F1 at 110120 V single phase
	1.77 N.m for LXM05AD10M2 at 200240 V single phase
	1.77 N.m for LXM05AD10F1 at 110120 V single phase
	1.31 N.m for LXM05CU70M2 at 200240 V single phase
	1.5 N.m for LXM15LD13M3 at 230 V single phase



Nominal output power	570 W for LXM15LD13M3 at 230 V three phase 450 W for LXM05CD10M3X at 200240 V three
	phase 450 W for LXM05BD10M3X at 200240 V three phase
	450 W for LXM05AD10M3X at 200240 V three
	phase 450 W for LXM32.U90M2 3 A at 230 V single phase
	250 W for LXM32.U90M2 3 A at 115 V single phase
	450 W for LXM15LD13M3 at 230 V single phase
	450 W for LXM05CD10M2 at 200240 V single phase
	450 W for LXM05BD10M2 at 200240 V single phase
	450 W for LXM05AD10M2 at 200240 V single phase
	250 W for LXM05CD17F1 at 110120 V single phase
	250 W for LXM05CD10F1 at 110120 V single phase
	250 W for LXM05BD17F1 at 110120 V single phase
	250 W for LXM05BD10F1 at 110120 V single phase
	250 W for LXM05AD17F1 at 110120 V single
	phase 250 W for LXM05AD10F1 at 110120 V single
	phase 240 W for LXM05CU70M2 at 200240 V single
	phase
Nominal torque	0.9 N.m for LXM05CD10M3X at 200240 V three
	phase 0.9 N.m for LXM05BD10M3X at 200240 V three
	phase 0.9 N.m for LXM05AD10M3X at 200240 V three
	phase 0.68 N.m for LXM15LD13M3 at 230 V three phase
	0.74 N.m for LXM32.U90M2 3 A at 230 V single phase
	0.77 N.m for LXM32.U90M2 3 A at 115 V single
	phase 0.9 N.m for LXM05CD17F1 at 110120 V single
	phase 0.9 N.m for LXM05CD10M2 at 200240 V single
	phase 0.9 N.m for LXM05CD10F1 at 110120 V single phase
	0.9 N.m for LXM05BD17F1 at 110120 V single phase
	0.9 N.m for LXM05BD10M2 at 200240 V single phase
	0.9 N.m for LXM05BD10F1 at 110120 V single phase
	0.9 N.m for LXM05AD17F1 at 110120 V single
	phase 0.9 N.m for LXM05AD10M2 at 200240 V single phase
	0.9 N.m for LXM05AD10F1 at 110120 V single phase
	0.77 N.m for LXM05CU70M2 at 200240 V single phase
	0.72 N.m for LXM15LD13M3 at 230 V single phase



Nominal speed	6000 rpm for LXM32.U90M2 3 A at 230 V single phase
	6000 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM05CD17F1 at 110120 V single phase
	3000 rpm for LXM05BD17F1 at 110120 V single phase
	3000 rpm for LXM05AD17F1 at 110120 V single phase
	8000 rpm for LXM15LD13M3 at 230 V three phase 6000 rpm for LXM05CD10M3X at 200240 V three
	phase 6000 rpm for LXM05BD10M3X at 200240 V three phase
	6000 rpm for LXM05AD10M3X at 200240 V three phase
	3000 rpm for LXM32.U90M2 3 A at 115 V single phase
	6000 rpm for LXM05CD10M2 at 200240 V single phase
	6000 rpm for LXM05BD10M2 at 200240 V single phase 6000 rpm for LXM05AD10M2 at 200240 V single
	phase 3000 rpm for LXM05CU70M2 at 200240 V single
	phase 3000 rpm for LXM05CD10F1 at 110120 V single
	phase 3000 rpm for LXM05BD10F1 at 110120 V single
	phase 3000 rpm for LXM05AD10F1 at 110120 V single phase
Product compatibility	LXM15LD13M3 at 230 V three phase LXM05CD10M3X at 200240 V three phase LXM05BD10M3X at 200240 V three phase LXM05AD10M3X at 200240 V three phase LXM32.U90M2 at 230 V single phase LXM32.U90M2 at 115 V single phase LXM15LD13M3 at 230 V single phase LXM05CU70M2 at 200240 V single phase LXM05CD17F1 at 110120 V single phase LXM05CD10M2 at 200240 V single phase LXM05CD10F1 at 110120 V single phase LXM05BD17F1 at 110120 V single phase LXM05BD10M2 at 200240 V single phase LXM05BD10F1 at 110120 V single phase LXM05BD10F1 at 110120 V single phase LXM05AD17F1 at 110120 V single phase LXM05AD10F1 at 110120 V single phase LXM05AD10F1 at 110120 V single 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
Lexium 05 Lexium 15 Lexium 32	
480 V	
Three phase	
2.2 A	
0.67 W	



Complementary
Range compatibility

Supply voltage max
Network number of phases
Continuous stall current
Maximum continuous power

Marian and a second lane	0.0 4 feet MM00 H00M0 et 000 V
Maximum current Irms	8.8 A for LXM32.U90M2 at 230 V 6 A for LXM32.U90M2 at 115 V
	8.8 A for LXM05CD10M3X
	8.8 A for LXM05CD10M2
	8.8 A for LXM05CD17F1
	8.8 A for LXM05CD10F1 8.8 A for LXM05BD10M3X
	8.8 A for LXM05BD10M2
	8.8 A for LXM05BD17F1
	8.8 A for LXM05BD10F1
	8.8 A for LXM05AD10M3X 8.8 A for LXM05AD10M2
	8.8 A for LXM05CU70M2
	8.8 A for LXM05AD17F1
	8.8 A for LXM05AD10F1 10.3 A for LXM15LD13M3
Maximum permanent current	8.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	9 mm
Shaft length	20 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	55 mm
Number of motor stacks	2
Torque constant	0.36 N.m/A at 120 °C
Back emf constant	22 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.096 kg.cm²
Stator resistance	5.2 Ohm at 20 °C
Stator inductance	10.6 mH at 20 °C
Stator electrical time constant	2.04 ms at 20 °C
Maximum radial force Fr	370 N at 1000 rpm 290 N at 2000 rpm
	260 N at 3000 rpm
	230 N at 4000 rpm
	220 N at 5000 rpm
	200 N at 6000 rpm 190 N at 8000 rpm
	190 N at 7000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154.4 mm
Centring collar diameter	40 mm
Centring collar depth	2 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes Product weight	63 mm 1.5 kg

Offer Sustainability

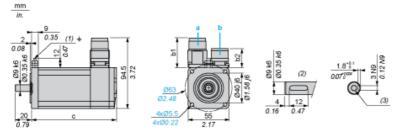
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Sustainable offer status	Green Premium product
RoHS	Compliant - since 0850 - Schneider Electric declaration of conformity
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations



BSH0552T02A2A

Servo Motors Dimensions

Example with Straight Connectors



- Power supply for servo motor brake
- b: Power supply for servo motor encoder
- M4 screw (1)
- (2) Shaft end, keyed slot (optional)
- For screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

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

Dimensions in in.

Straight connec	tors	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

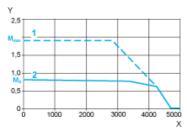
Product data sheet **Performance Curves**

BSH0552T02A2A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive

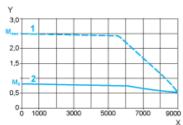


- Speed in rpm
- Torque in Nm
- Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



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