

# AC servo motor BSH, Lexium 05, 0.9N.m, 5000rpm, keyed shaft, with brake, IP50

BSH0552M12F2A

#### ① Discontinued

#### Main

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Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	0.9 N.m for LXM05CU70M2, 200240 V, single phase 0.9 N.m for LXM05AD10M2, 200240 V, single phase 0.9 N.m for LXM05BD10M2, 200240 V, single phase 0.9 N.m for LXM05CD10M2, 200240 V, single phase 0.9 N.m for LXM15LU60N4, 480 V, three phase 0.9 N.m for LXM15LU60N4, 400 V, three phase 0.9 N.m for LXM05AD10M3X, 200240 V, three phase 0.9 N.m for LXM05BD10M3X, 200240 V, three phase 0.9 N.m for LXM05CD10M3X, 200240 V, three phase
Peak Stall Torque	2.3 N.m for LXM05CU70M2, 200240 V, single phase 2.3 N.m for LXM05AD10M2, 200240 V, single phase 2.3 N.m for LXM05BD10M2, 200240 V, single phase 2.3 N.m for LXM05CD10M2, 200240 V, single phase 2.25 N.m for LXM15LU60N4, 480 V, three phase 2.25 N.m for LXM15LU60N4, 480 V, three phase 2.25 N.m for LXM15LU60N4, 400 V, three phase 2.3 N.m for LXM05AD10M3X, 200240 V, three phase 2.3 N.m for LXM05BD10M3X, 200240 V, three phase 2.3 N.m for LXM05CD10M3X, 200240 V, three phase
Nominal Output Power	130 W for LXM05AD10M2, 200240 V, single phase 130 W for LXM05BD10M2, 200240 V, single phase 130 W for LXM05CD10M2, 200240 V, single phase 130 W for LXM05CU70M2, 200240 V, single phase 130 W for LXM05AD10M3X, 200240 V, three phase 130 W for LXM05BD10M3X, 200240 V, three phase 130 W for LXM05BD10M3X, 200240 V, three phase 130 W for LXM05CD10M3X, 200240 V, three phase 320 W for LXM15LU60N4, 400 V, three phase 400 W for LXM15LU60N4, 480 V, three phase
Nominal Torque	0.85 N.m for LXM05AD10M2, 200240 V, single phase 0.85 N.m for LXM05BD10M2, 200240 V, single phase 0.85 N.m for LXM05CD10M2, 200240 V, single phase 0.85 N.m for LXM05CU70M2, 200240 V, single phase 0.77 N.m for LXM15LU60N4, 400 V, three phase 0.77 N.m for LXM15LU60N4, 480 V, three phase 0.85 N.m for LXM05AD10M3X, 200240 V, three phase 0.85 N.m for LXM05BD10M3X, 200240 V, three phase 0.85 N.m for LXM05BD10M3X, 200240 V, three phase 0.85 N.m for LXM05CD10M3X, 200240 V, three phase
Nominal Speed	1500 rpm for LXM05AD10M2, 200240 V, single phase 1500 rpm for LXM05BD10M2, 200240 V, single phase 1500 rpm for LXM05CD10M2, 200240 V, single phase 1500 rpm for LXM05CU70M2, 200240 V, single phase 1500 rpm for LXM05AD10M3X, 200240 V, three phase 1500 rpm for LXM05BD10M3X, 200240 V, three phase 1500 rpm for LXM05CD10M3X, 200240 V, three phase 4000 rpm for LXM05CD10M3X, 200240 V, three phase 5000 rpm for LXM15LU60N4, 400 V, three phase

Product Compatibility  Shaft End  Ip Degree Of Protection  Speed Feedback Resolution  Holding Brake  Mounting Support  Electrical Connection	LXM05AD10M2 at 200240 V single phase LXM05BD10M2 at 200240 V single phase LXM05CD10M2 at 200240 V single phase LXM05CU70M2 at 200240 V single phase LXM05AD10M3X at 200240 V three phase LXM05BD10M3X at 200240 V three phase LXM05CD10M3X at 200240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase Keyed  IP50 standard  131072 points/turn x 4096 turns  With  International standard flange  Rotatable right-angled connectors
Complementary	
Range Compatibility	Lexium 15 Lexium 05
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	0.6 A
Maximum Continuous Power	0.67 W
Maximum Current Irms	2.4 A for LXM15LU60N4 2.6 A for LXM05CU70M2 2.6 A for LXM05AD10M2 2.6 A for LXM05AD10M3X 2.6 A for LXM05BD10M2 2.6 A for LXM05BD10M3X 2.6 A for LXM05BD10M3X 2.6 A for LXM05CD10M3X 2.6 A for LXM05CD10M2
Maximum Permanent Current	2.6 A
Switching Frequency	4 kHz
Second Shaft	Without second shaft end
Shaft Diameter	9 mm
Shaft Length	20 mm
Key Width	12 mm
Feedback Type	Multiturn SinCos Hiperface
Holding Torque	0.8 N.m holding brake
Motor Flange Size	55 mm
Number Of Motor Stacks	2
Torque Constant	1.125 N.m/A at 120 °C
Back Emf Constant	74 V/krpm at 120 °C
Number Of Motor Poles	6
Rotor Inertia	0.1613 kg.cm²
Stator Resistance	60.2 Ohm at 20 °C 62 Ohm at 20 °C
Stator Inductance	122 mH at 20 °C 76.8 mH at 20 °C

Stator Electrical Time Constant	1.24 ms at 20 °C
Stator Liectrical Time Constant	2.03 ms at 20 °C
	2.03 IIIS at 20 °C
Maximum Radial Force Fr	190 N at 7000 rpm
	190 N at 8000 rpm
	200 N at 6000 rpm
	220 N at 5000 rpm
	230 N at 4000 rpm
	260 N at 3000 rpm
	290 N at 2000 rpm
	370 N at 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	10 W
Type Of Cooling	Natural convection
Length	181 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	63 mm
Net Weight	1.6 kg

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

### **Contractual warranty**

Warranty	18 months
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