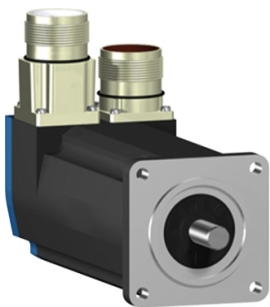


# Product data sheet

Specifications



AC servo motor BSH, Lexium 05,  
0.9N.m, 5000rpm, untapped shaft,  
without brake, IP50

BSH0552M01A1A

ⓘ Discontinued

## Main

Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	0.9 N.m for LXM05CU70M2, 200...240 V, single phase 0.9 N.m for LXM05AD10M2, 200...240 V, single phase 0.9 N.m for LXM05BD10M2, 200...240 V, single phase 0.9 N.m for LXM05CD10M2, 200...240 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, 200...240 V, three phase 0.9 N.m for LXM05BD10M3X, 200...240 V, three phase 0.9 N.m for LXM05CD10M3X, 200...240 V, three phase
Peak Stall Torque	2.3 N.m for LXM05CU70M2, 200...240 V, single phase 2.3 N.m for LXM05AD10M2, 200...240 V, single phase 2.3 N.m for LXM05BD10M2, 200...240 V, single phase 2.3 N.m for LXM05CD10M2, 200...240 V, single 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, 200...240 V, three phase 2.3 N.m for LXM05BD10M3X, 200...240 V, three phase 2.3 N.m for LXM05CD10M3X, 200...240 V, three phase
Nominal Output Power	130 W for LXM05AD10M2, 200...240 V, single phase 130 W for LXM05BD10M2, 200...240 V, single phase 130 W for LXM05CD10M2, 200...240 V, single phase 130 W for LXM05CU70M2, 200...240 V, single phase 130 W for LXM05AD10M3X, 200...240 V, three phase 130 W for LXM05BD10M3X, 200...240 V, three phase 130 W for LXM05CD10M3X, 200...240 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, 200...240 V, single phase 0.85 N.m for LXM05BD10M2, 200...240 V, single phase 0.85 N.m for LXM05CD10M2, 200...240 V, single phase 0.85 N.m for LXM05CU70M2, 200...240 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, 200...240 V, three phase 0.85 N.m for LXM05BD10M3X, 200...240 V, three phase 0.85 N.m for LXM05CD10M3X, 200...240 V, three phase
Nominal Speed	1500 rpm for LXM05AD10M2, 200...240 V, single phase 1500 rpm for LXM05BD10M2, 200...240 V, single phase 1500 rpm for LXM05CD10M2, 200...240 V, single phase 1500 rpm for LXM05CU70M2, 200...240 V, single phase 1500 rpm for LXM05AD10M3X, 200...240 V, three phase 1500 rpm for LXM05BD10M3X, 200...240 V, three phase 1500 rpm for LXM05CD10M3X, 200...240 V, three phase 4000 rpm for LXM15LU60N4, 400 V, three phase 5000 rpm for LXM15LU60N4, 480 V, three phase

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product Compatibility	LXM05AD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CU70M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase
Shaft End	Untapped
Ip Degree Of Protection	IP50 standard
Speed Feedback Resolution	131072 points/turn
Holding Brake	Without
Mounting Support	International standard flange
Electrical Connection	Straight 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 LXM05CD10M2 2.6 A for LXM05CD10M3X
Maximum Permanent Current	2.6 A
Switching Frequency	4 kHz
Second Shaft	Without second shaft end
Shaft Diameter	9 mm
Shaft Length	20 mm
Feedback Type	Single turn SinCos Hiperface
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	0.14 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 2.03 ms 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
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	63 mm
Net Weight	1.5 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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