

# BSH0552M12A2A

AC servo motor BSH - 0.9 Nm - 8000 rpm - key shaft - without brake - IP50

## Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	0.9 N.m for LXM15LU60N4 at 480 V 3 phases 0.9 N.m for LXM15LU60N4 at 400 V 3 phases 0.9 N.m for LXM05CU70M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M3X at 200...240 V 3 phases 0.9 N.m for LXM05BD10M2 at 200...240 V single phase 0.9 N.m for LXM05BD10M3X at 200...240 V 3 phases 0.9 N.m for LXM05CD10M2 at 200...240 V single phase 0.9 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	2.25 N.m for LXM15LU60N4 at 480 V 3 phases 2.25 N.m for LXM15LU60N4 at 400 V 3 phases 2.3 N.m for LXM05CU70M2 at 200...240 V single phase 2.3 N.m for LXM05AD10M2 at 200...240 V single phase 2.3 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.3 N.m for LXM05BD10M2 at 200...240 V single phase 2.3 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.3 N.m for LXM05CD10M2 at 200...240 V single phase 2.3 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	130 W for LXM05CU70M2 at 200...240 V single phase 130 W for LXM05AD10M2 at 200...240 V single phase 130 W for LXM05AD10M3X at 200...240 V 3 phases 130 W for LXM05BD10M2 at 200...240 V single phase 130 W for LXM05BD10M3X at 200...240 V 3 phases 130 W for LXM05CD10M2 at 200...240 V single phase 130 W for LXM05CD10M3X at 200...240 V 3 phases 320 W for LXM15LU60N4 at 400 V 3 phases 400 W for LXM15LU60N4 at 480 V 3 phases
Nominal speed	1500 rpm for LXM05CU70M2 at 200...240 V single phase 1500 rpm for LXM05AD10M2 at 200...240 V single phase 1500 rpm for LXM05AD10M3X at 200...240 V 3 phases 1500 rpm for LXM05BD10M2 at 200...240 V single phase 1500 rpm for LXM05BD10M3X at 200...240 V 3 phases 1500 rpm for LXM05CD10M2 at 200...240 V single phase 1500 rpm for LXM05CD10M3X at 200...240 V 3 phases 4000 rpm for LXM15LU60N4 at 400 V 3 phases 5000 rpm for LXM15LU60N4 at 480 V 3 phases
Maximum mechanical speed	8000 rpm

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Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V 3 phases LXM05BD10M2 at 200...240 V single phase LXM05BD10M3X at 200...240 V 3 phases LXM05CD10M2 at 200...240 V single phase LXM05CD10M3X at 200...240 V 3 phases LXM05CU70M2 at 200...240 V single phase LXM15LU60N4 at 480 V 3 phases LXM15LU60N4 at 400 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute multiturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	6

## Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	0.77 N.m for LXM15LU60N4 at 400 V 3 phases 0.77 N.m for LXM15LU60N4 at 480 V 3 phases 0.85 N.m for LXM05CU70M2 at 200...240 V single phase 0.85 N.m for LXM05AD10M2 at 200...240 V single phase 0.85 N.m for LXM05AD10M3X at 200...240 V 3 phases 0.85 N.m for LXM05BD10M2 at 200...240 V single phase 0.85 N.m for LXM05BD10M3X at 200...240 V 3 phases 0.85 N.m for LXM05CD10M2 at 200...240 V single phase 0.85 N.m for LXM05CD10M3X at 200...240 V 3 phases
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
Switching frequency	4 kHz for LEX05
Torque constant	1.125 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	74 V rms/krpm at 120 °C
Rotor inertia	0.14 kg.cm <sup>2</sup> without brake
Stator resistance	60.2 Ohm at 20 °C 62 Ohm at 20 °C
Stator inductance	76.8 mH at 20 °C 122 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
Product weight	1.47 kg

## Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant