

# BSH0701P11A2A

AC servo motor BSH - 1.4 Nm - 8000 rpm - key shaft - without brake - IP50

## Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	1.4 N.m for LXM15LD13M3 at 230 V single phase 1.4 N.m for LXM15LU60N4 at 230 V 3 phases 1.4 N.m for LXM05AD10M2 at 200...240 V single phase 1.4 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05BD10M2 at 200...240 V single phase 1.4 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05CD10M2 at 200...240 V single phase 1.4 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	2.66 N.m for LXM15LD13M3 at 230 V single phase 2.66 N.m for LXM15LU60N4 at 230 V 3 phases 2.66 N.m for LXM05AD10M2 at 200...240 V single phase 2.66 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05BD10M2 at 200...240 V single phase 2.66 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05CD10M2 at 200...240 V single phase 2.66 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	400 W for LXM05AD10M2 at 200...240 V single phase 400 W for LXM05AD10M3X at 200...240 V 3 phases 400 W for LXM05BD10M2 at 200...240 V single phase 400 W for LXM05BD10M3X at 200...240 V 3 phases 400 W for LXM05CD10M2 at 200...240 V single phase 400 W for LXM05CD10M3X at 200...240 V 3 phases 411 W for LXM15LD13M3 at 230 V single phase 411 W for LXM15LU60N4 at 230 V 3 phases
Nominal speed	3000 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM15LU60N4 at 230 V 3 phases 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05AD10M3X at 200...240 V 3 phases 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05BD10M3X at 200...240 V 3 phases 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM05CD10M3X at 200...240 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 LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
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	1.3 N.m for LXM05AD10M2 at 200...240 V single phase 1.3 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05BD10M2 at 200...240 V single phase 1.3 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05CD10M2 at 200...240 V single phase 1.3 N.m for LXM05CD10M3X at 200...240 V 3 phases 1.31 N.m for LXM15LD13M3 at 230 V single phase 1.31 N.m for LXM15LU60N4 at 230 V 3 phases
Maximum current Irms	5.3 A for LXM15LD13M3 5.3 A for LXM15LU60N4 5.7 A for LXM05AD10M3X 5.7 A for LXM05BD10M2 5.7 A for LXM05BD10M3X 5.7 A for LXM05CD10M2 5.7 A for LXM05CD10M3X 5.7 A for LXM05AD10M2
Switching frequency	4 kHz for LEX05
Torque constant	0.78 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	46 V rms/krpm at 120 °C
Rotor inertia	0.25 kg.cm <sup>2</sup> without brake
Stator resistance	10.4 Ohm at 20 °C 38.4 Ohm at 20 °C
Stator inductance	38.8 mH at 20 °C 42.6 mH at 20 °C
Stator electrical time constant	3.73 ms at 20 °C 4.1 ms at 20 °C
Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	2.2 kg

## Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant