

BSH0702M02F1A

AC servo motor BSH - 2.12 Nm - 8000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	2.12 N.m for LXM15LU60N4 at 400 V 3 phases 2.12 N.m for LXM15LU60N4 at 480 V 3 phases 2.12 N.m for LXM05AD10M2 at 200...240 V single phase 2.12 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.12 N.m for LXM05BD10M2 at 200...240 V single phase 2.12 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.12 N.m for LXM05CD10M2 at 200...240 V single phase 2.12 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	5.63 N.m for LXM15LU60N4 at 400 V 3 phases 5.63 N.m for LXM15LU60N4 at 480 V 3 phases 5.63 N.m for LXM05AD10M2 at 200...240 V single phase 5.63 N.m for LXM05AD10M3X at 200...240 V 3 phases 5.63 N.m for LXM05BD10M2 at 200...240 V single phase 5.63 N.m for LXM05BD10M3X at 200...240 V 3 phases 5.63 N.m for LXM05CD10M2 at 200...240 V single phase 5.63 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	300 W for LXM05AD10M2 at 200...240 V single phase 300 W for LXM05AD10M3X at 200...240 V 3 phases 300 W for LXM05BD10M2 at 200...240 V single phase 300 W for LXM05BD10M3X at 200...240 V 3 phases 300 W for LXM05CD10M2 at 200...240 V single phase 300 W for LXM05CD10M3X at 200...240 V 3 phases 594 W for LXM15LU60N4 at 400 V 3 phases 753 W for LXM15LU60N4 at 480 V 3 phases
Nominal speed	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 3000 rpm for LXM15LU60N4 at 400 V 3 phases 4000 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 LXM15LU60N4 at 400 V 3 phases LXM15LU60N4 at 480 V 3 phases
Shaft end	Untapped
IP degree of protection	IP50
Encoder type	Absolute multitrans SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	6

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	1.8 N.m for LXM15LU60N4 at 480 V 3 phases 1.89 N.m for LXM15LU60N4 at 400 V 3 phases 2 N.m for LXM05AD10M2 at 200...240 V single phase 2 N.m for LXM05AD10M3X at 200...240 V 3 phases 2 N.m for LXM05BD10M2 at 200...240 V single phase 2 N.m for LXM05BD10M3X at 200...240 V 3 phases 2 N.m for LXM05CD10M2 at 200...240 V single phase 2 N.m for LXM05CD10M3X at 200...240 V 3 phases
Maximum current I _{rms}	5.9 A for LXM15LU60N4 6 A for LXM05AD10M2 6 A for LXM05AD10M3X 6 A for LXM05BD10M2 6 A for LXM05BD10M3X 6 A for LXM05CD10M2 6 A for LXM05CD10M3X
Switching frequency	4 kHz for LEX05
Torque constant	1.46 N.m/A rms at 120 °C 1.47 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	93 V rms/krpm at 120 °C 95 V rms/krpm at 120 °C
Rotor inertia	0.482 kg.cm ² with brake
Stator resistance	16.4 Ohm at 20 °C 17.3 Ohm at 20 °C
Stator inductance	74.1 mH at 20 °C 84.4 mH at 20 °C
Stator electrical time constant	4.52 ms at 20 °C 4.88 ms at 20 °C
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	2.89 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant