

BSH1003M12A1A

AC servo motor BSH - 7.76 Nm - 6000 rpm -
key shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	7.76 N.m for LXM15LD10N4 at 400 V 3 phases 7.76 N.m for LXM15LD17N4 at 230 V 3 phases 7.76 N.m for LXM15LD17N4 at 400 V 3 phases 7.76 N.m for LXM15LD17N4 at 480 V 3 phases 7.8 N.m for LXM05AD22N4 at 380...480 V 3 phases 7.8 N.m for LXM05BD22N4 at 380...480 V 3 phases 7.8 N.m for LXM05CD22N4 at 380...480 V 3 phases
Peak stall torque	15.19 N.m for LXM15LD10N4 at 400 V 3 phases 22.95 N.m for LXM15LD17N4 at 230 V 3 phases 22.95 N.m for LXM15LD17N4 at 400 V 3 phases 22.95 N.m for LXM15LD17N4 at 480 V 3 phases 23.17 N.m for LXM05AD22N4 at 380...480 V 3 phases 23.17 N.m for LXM05BD22N4 at 380...480 V 3 phases 23.17 N.m for LXM05CD22N4 at 380...480 V 3 phases
Nominal output power	750 W for LXM15LD17N4 at 230 V 3 phases 1100 W for LXM05AD22N4 at 380...480 V 3 phases 1100 W for LXM05BD22N4 at 380...480 V 3 phases 1100 W for LXM05CD22N4 at 380...480 V 3 phases 1300 W for LXM15LD10N4 at 400 V 3 phases 1400 W for LXM15LD17N4 at 400 V 3 phases 1400 W for LXM15LD17N4 at 480 V 3 phases
Nominal speed	1000 rpm for LXM15LD17N4 at 230 V 3 phases 1500 rpm for LXM05AD22N4 at 380...480 V 3 phases 1500 rpm for LXM05BD22N4 at 380...480 V 3 phases 1500 rpm for LXM05CD22N4 at 380...480 V 3 phases 2000 rpm for LXM15LD10N4 at 400 V 3 phases 2000 rpm for LXM15LD17N4 at 400 V 3 phases 2000 rpm for LXM15LD17N4 at 480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD22N4 at 380...480 V 3 phases LXM05BD22N4 at 380...480 V 3 phases LXM05CD22N4 at 380...480 V 3 phases LXM15LD10N4 at 400 V 3 phases LXM15LD17N4 at 230 V 3 phases LXM15LD17N4 at 400 V 3 phases LXM15LD17N4 at 480 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute multturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	8

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Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	6.36 N.m for LXM15LD10N4 at 400 V 3 phases 6.5 N.m for LXM15LD17N4 at 400 V 3 phases 6.5 N.m for LXM15LD17N4 at 480 V 3 phases 6.73 N.m for LXM05AD22N4 at 380...480 V 3 phases 6.73 N.m for LXM05BD22N4 at 380...480 V 3 phases 6.73 N.m for LXM05CD22N4 at 380...480 V 3 phases 7 N.m for LXM15LD17N4 at 230 V 3 phases
Maximum current I _{rms}	14.7 A for LXM05AD22N4 14.7 A for LXM05BD22N4 14.7 A for LXM05CD22N4 15.6 A for LXM15LD10N4 15.6 A for LXM15LD17N4
Switching frequency	4 kHz for LEX05
Torque constant	2.22 N.m/A rms at 120 °C 2.22 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	1.44 V rms/krpm at 120 °C 148 V rms/krpm at 120 °C
Rotor inertia	3.22 kg.cm ² without brake
Stator resistance	5.3 Ohm at 20 °C
Stator inductance	32.5 mH at 20 °C 33.7 mH at 20 °C
Stator electrical time constant	6.13 ms at 20 °C 6.36 ms at 20 °C
Maximum radial force Fr	660 N at 4000 rpm 730 N at 3000 rpm 830 N at 2000 rpm 1050 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	7.4 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant