

BSH1004P02A1A

AC servo motor BSH - 9.31 Nm - 6000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	9.31 N.m for LXM15MD28M3 at 230 V 3 phases 9.31 N.m for LXM15MD28N4 at 230 V 3 phases 9.31 N.m for LXM15MD28N4 at 400 V 3 phases 9.31 N.m for LXM15MD28N4 at 480 V 3 phases 9.31 N.m for LXM15MD40N4 at 230 V 3 phases 9.31 N.m for LXM15MD40N4 at 400 V 3 phases 9.31 N.m for LXM15MD40N4 at 480 V 3 phases 9.31 N.m for LXM05AD34N4 at 380...480 V 3 phases 9.31 N.m for LXM05AD42M3X at 200...240 V 3 phases 9.31 N.m for LXM05AD57N4 at 380...480 V 3 phases 9.31 N.m for LXM05BD34N4 at 380...480 V 3 phases 9.31 N.m for LXM05BD42M3X at 200...240 V 3 phases 9.31 N.m for LXM05BD57N4 at 380...480 V 3 phases 9.31 N.m for LXM05CD34N4 at 380...480 V 3 phases 9.31 N.m for LXM05CD42M3X at 200...240 V 3 phases 9.31 N.m for LXM05CD57N4 at 380...480 V 3 phases
Peak stall torque	23.47 N.m for LXM05AD34N4 at 380...480 V 3 phases 23.47 N.m for LXM05BD34N4 at 380...480 V 3 phases 23.47 N.m for LXM05CD34N4 at 380...480 V 3 phases 25.7 N.m for LXM15MD28M3 at 230 V 3 phases 25.7 N.m for LXM15MD28N4 at 230 V 3 phases 25.7 N.m for LXM15MD28N4 at 400 V 3 phases 25.7 N.m for LXM15MD28N4 at 480 V 3 phases 33.83 N.m for LXM15MD40N4 at 230 V 3 phases 33.83 N.m for LXM15MD40N4 at 400 V 3 phases 33.83 N.m for LXM15MD40N4 at 480 V 3 phases 35.7 N.m for LXM05AD42M3X at 200...240 V 3 phases 35.7 N.m for LXM05AD57N4 at 380...480 V 3 phases 35.7 N.m for LXM05BD42M3X at 200...240 V 3 phases 35.7 N.m for LXM05BD57N4 at 380...480 V 3 phases 35.7 N.m for LXM05CD42M3X at 200...240 V 3 phases 35.7 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	1300 W for LXM15MD28M3 at 230 V 3 phases 1300 W for LXM15MD28N4 at 230 V 3 phases 1300 W for LXM15MD40N4 at 230 V 3 phases 1300 W for LXM05AD42M3X at 200...240 V 3 phases 1300 W for LXM05BD42M3X at 200...240 V 3 phases 1300 W for LXM05CD42M3X at 200...240 V 3 phases 2200 W for LXM15MD28N4 at 400 V 3 phases 2200 W for LXM05AD34N4 at 380...480 V 3 phases 2200 W for LXM05AD57N4 at 380...480 V 3 phases 2200 W for LXM05BD34N4 at 380...480 V 3 phases 2200 W for LXM05BD57N4 at 380...480 V 3 phases 2200 W for LXM05CD34N4 at 380...480 V 3 phases 2200 W for LXM05CD57N4 at 380...480 V 3 phases 2300 W for LXM15MD40N4 at 400 V 3 phases 2400 W for LXM15MD40N4 at 480 V 3 phases 2700 W for LXM15MD28N4 at 480 V 3 phases

Nominal speed	1500 rpm for LXM15MD28M3 at 230 V 3 phases 1500 rpm for LXM15MD28N4 at 230 V 3 phases 1500 rpm for LXM15MD40N4 at 230 V 3 phases 1500 rpm for LXM05AD42M3X at 200...240 V 3 phases 1500 rpm for LXM05BD42M3X at 200...240 V 3 phases 1500 rpm for LXM05CD42M3X at 200...240 V 3 phases 3000 rpm for LXM15MD28N4 at 400 V 3 phases 3000 rpm for LXM15MD40N4 at 400 V 3 phases 3000 rpm for LXM05AD34N4 at 380...480 V 3 phases 3000 rpm for LXM05AD57N4 at 380...480 V 3 phases 3000 rpm for LXM05BD34N4 at 380...480 V 3 phases 3000 rpm for LXM05BD57N4 at 380...480 V 3 phases 3000 rpm for LXM05CD34N4 at 380...480 V 3 phases 3000 rpm for LXM05CD57N4 at 380...480 V 3 phases 3500 rpm for LXM15MD40N4 at 480 V 3 phases 4000 rpm for LXM15MD28N4 at 480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD34N4 at 380...480 V 3 phases LXM05AD42M3X at 200...240 V 3 phases LXM05AD57N4 at 380...480 V 3 phases LXM05BD34N4 at 380...480 V 3 phases LXM05BD42M3X at 200...240 V 3 phases LXM05BD57N4 at 380...480 V 3 phases LXM05CD34N4 at 380...480 V 3 phases LXM05CD42M3X at 200...240 V 3 phases LXM05CD57N4 at 380...480 V 3 phases LXM15MD28M3 at 230 V 3 phases LXM15MD28N4 at 230 V 3 phases LXM15MD28N4 at 400 V 3 phases LXM15MD28N4 at 480 V 3 phases LXM15MD40N4 at 230 V 3 phases LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 V 3 phases
Shaft end	Untapped
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	Straight connectors
Number of poles	8

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	6.5 N.m for LXM15MD28N4 at 480 V 3 phases 6.69 N.m for LXM15MD40N4 at 480 V 3 phases 7 N.m for LXM15MD28N4 at 400 V 3 phases 7.1 N.m for LXM05AD34N4 at 380...480 V 3 phases 7.1 N.m for LXM05AD57N4 at 380...480 V 3 phases 7.1 N.m for LXM05BD34N4 at 380...480 V 3 phases 7.1 N.m for LXM05BD57N4 at 380...480 V 3 phases 7.1 N.m for LXM05CD34N4 at 380...480 V 3 phases 7.1 N.m for LXM05CD57N4 at 380...480 V 3 phases 7.17 N.m for LXM15MD40N4 at 400 V 3 phases 8.18 N.m for LXM15MD40N4 at 230 V 3 phases 8.22 N.m for LXM05BD42M3X at 200...240 V 3 phases 8.22 N.m for LXM05CD42M3X at 200...240 V 3 phases 8.22 N.m for LXM15LD28M3 at 230 V 3 phases 8.22 N.m for LXM15MD28N4 at 230 V 3 phases 8.22 N.m for LXM05AD42M3X at 200...240 V 3 phases
Maximum current I _{rms}	32.3 A for LXM05AD42M3X 32.3 A for LXM05AD34N4 32.3 A for LXM05AD57N4 32.3 A for LXM05BD42M3X 32.3 A for LXM05BD34N4 32.3 A for LXM05BD57N4 32.3 A for LXM05CD42M3X 32.3 A for LXM05CD34N4 32.3 A for LXM05CD57N4 34.8 A for LXM15LD28M3 34.8 A for LXM15MD28N4 34.8 A for LXM15MD40N4
Switching frequency	8 kHz for LEX05
Torque constant	1.62 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	103 V rms/krpm at 120 °C
Rotor inertia	4.22 kg.cm ² without brake
Stator resistance	1.81 Ohm at 20 °C
Stator inductance	11.8 mH at 20 °C 13 mH at 20 °C
Stator electrical time constant	6.52 ms at 20 °C 7.18 ms at 20 °C
Maximum radial force Fr	740 N at 3000 rpm 850 N at 2000 rpm 1070 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	9.5 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant