

BSH1001P02F1A

AC servo motor BSH - 3.4 Nm - 6000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	2.7 N.m for LXM15LD10N4 at 230 V 3 phases 3.39 N.m for LXM15LD10N4 at 400 V 3 phases 3.39 N.m for LXM15LD10N4 at 480 V 3 phases 3.39 N.m for LXM15LD21M3 at 230 V single phase 3.39 N.m for LXM15LD21M3 at 230 V 3 phases 3.39 N.m for LXM15LD17N4 at 230 V 3 phases 3.39 N.m for LXM15LD17N4 at 400 V 3 phases 3.39 N.m for LXM15LD17N4 at 480 V 3 phases 3.4 N.m for LXM05AD17M3X at 200...240 V 3 phases 3.4 N.m for LXM05AD22N4 at 380...480 V 3 phases 3.4 N.m for LXM05BD17M3X at 200...240 V 3 phases 3.4 N.m for LXM05BD22N4 at 380...480 V 3 phases 3.4 N.m for LXM05CD17M3X at 200...240 V 3 phases 3.4 N.m for LXM05CD22N4 at 380...480 V 3 phases
Peak stall torque	6.19 N.m for LXM15LD10N4 at 230 V 3 phases 6.19 N.m for LXM15LD10N4 at 400 V 3 phases 6.19 N.m for LXM15LD10N4 at 480 V 3 phases 7.08 N.m for LXM15LD21M3 at 230 V single phase 7.08 N.m for LXM15LD21M3 at 230 V 3 phases 7.08 N.m for LXM15LD17N4 at 230 V 3 phases 7.08 N.m for LXM15LD17N4 at 400 V 3 phases 7.08 N.m for LXM15LD17N4 at 480 V 3 phases 7.1 N.m for LXM05AD17M3X at 200...240 V 3 phases 7.1 N.m for LXM05AD22N4 at 380...480 V 3 phases 7.1 N.m for LXM05BD17M3X at 200...240 V 3 phases 7.1 N.m for LXM05BD22N4 at 380...480 V 3 phases 7.1 N.m for LXM05CD17M3X at 200...240 V 3 phases 7.1 N.m for LXM05CD22N4 at 380...480 V 3 phases
Nominal output power	500 W for LXM05AD17M3X at 200...240 V 3 phases 500 W for LXM05BD17M3X at 200...240 V 3 phases 500 W for LXM05CD17M3X at 200...240 V 3 phases 850 W for LXM15LD10N4 at 230 V 3 phases 900 W for LXM05AD22N4 at 380...480 V 3 phases 900 W for LXM05BD22N4 at 380...480 V 3 phases 900 W for LXM05CD22N4 at 380...480 V 3 phases 950 W for LXM15LD21M3 at 230 V single phase 950 W for LXM15LD21M3 at 230 V 3 phases 950 W for LXM15LD17N4 at 230 V 3 phases 1300 W for LXM15LD10N4 at 400 V 3 phases 1300 W for LXM15LD17N4 at 400 V 3 phases 1500 W for LXM15LD10N4 at 480 V 3 phases 1500 W for LXM15LD17N4 at 480 V 3 phases

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Nominal speed	1500 rpm for LXM05AD17M3X at 200...240 V 3 phases 1500 rpm for LXM05BD17M3X at 200...240 V 3 phases 1500 rpm for LXM05CD17M3X at 200...240 V 3 phases 3000 rpm for LXM15LD10N4 at 230 V 3 phases 3000 rpm for LXM15LD21M3 at 230 V single phase 3000 rpm for LXM15LD21M3 at 230 V 3 phases 3000 rpm for LXM15LD17N4 at 230 V 3 phases 3000 rpm for LXM05AD22N4 at 380...480 V 3 phases 3000 rpm for LXM05BD22N4 at 380...480 V 3 phases 3000 rpm for LXM05CD22N4 at 380...480 V 3 phases 4500 rpm for LXM15LD10N4 at 400 V 3 phases 4500 rpm for LXM15LD17N4 at 400 V 3 phases 6000 rpm for LXM15LD10N4 at 480 V 3 phases 6000 rpm for LXM15LD17N4 at 480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD17M3X at 200...240 V 3 phases LXM05AD22N4 at 380...480 V 3 phases LXM05BD17M3X at 200...240 V 3 phases LXM05BD22N4 at 380...480 V 3 phases LXM05CD17M3X at 200...240 V 3 phases LXM05CD22N4 at 380...480 V 3 phases LXM15LD10N4 at 230 V 3 phases LXM15LD10N4 at 400 V 3 phases LXM15LD10N4 at 480 V 3 phases LXM15LD17N4 at 400 V 3 phases LXM15LD17N4 at 480 V 3 phases LXM15LD17N4 at 230 V 3 phases LXM15LD21M3 at 230 V single phase LXM15LD21M3 at 230 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	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	8

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	2.5 N.m for LXM15LD10N4 at 480 V 3 phases 2.5 N.m for LXM15LD17N4 at 480 V 3 phases 2.7 N.m for LXM15LD10N4 at 230 V 3 phases 2.7 N.m for LXM15LD10N4 at 400 V 3 phases 2.7 N.m for LXM15LD17N4 at 400 V 3 phases 2.92 N.m for LXM05AD22N4 at 380...480 V 3 phases 2.92 N.m for LXM05BD22N4 at 380...480 V 3 phases 2.92 N.m for LXM05CD22N4 at 380...480 V 3 phases 3 N.m for LXM15LD21M3 at 230 V single phase 3 N.m for LXM15LD21M3 at 230 V 3 phases 3 N.m for LXM15LD17N4 at 230 V 3 phases 3.16 N.m for LXM05AD17M3X at 200...240 V 3 phases 3.16 N.m for LXM05BD17M3X at 200...240 V 3 phases 3.16 N.m for LXM05CD17M3X at 200...240 V 3 phases
Maximum current I _{rms}	12 A for LXM15LD21M3 12 A for LXM15LD10N4 12 A for LXM15LD17N4 12 A for LXM05AD17M3X 12 A for LXM05AD22N4 12 A for LXM05BD17M3X 12 A for LXM05BD22N4 12 A for LXM05CD17M3X 12 A for LXM05CD22N4
Switching frequency	4 kHz for LEX05
Torque constant	0.89 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	60 V rms/krpm at 120 °C
Rotor inertia	2.018 kg.cm ² with brake
Stator resistance	3.8 Ohm at 20 °C
Stator inductance	17.6 mH at 20 °C 19 mH at 20 °C
Stator electrical time constant	4.63 ms at 20 °C 5 ms at 20 °C
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	4.2 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant