

BSH1001P32A2A

AC servo motor BSH - 2.7 Nm - 6000 rpm - key shaft - without brake - IP65

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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	Keyed
IP degree of protection	IP65
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	Rotatable right-angled 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	1.4 kg.cm ² without 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