

BSH0702M12A1A

AC servo motor BSH - 2.12 Nm - 8000 rpm -
key shaft - without 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

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.

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	Keyed
IP degree of protection	IP50
Encoder type	Absolute multitrans 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	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	0.41 kg.cm ² without 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