

BSH0701P01A1A

AC servo motor BSH - 1.4 Nm - 8000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	1.4 N.m for LXM15LD13M3 at 230 V single phase 1.4 N.m for LXM15LU60N4 at 230 V 3 phases 1.4 N.m for LXM05AD10M2 at 200...240 V single phase 1.4 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05BD10M2 at 200...240 V single phase 1.4 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05CD10M2 at 200...240 V single phase 1.4 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	2.66 N.m for LXM15LD13M3 at 230 V single phase 2.66 N.m for LXM15LU60N4 at 230 V 3 phases 2.66 N.m for LXM05AD10M2 at 200...240 V single phase 2.66 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05BD10M2 at 200...240 V single phase 2.66 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05CD10M2 at 200...240 V single phase 2.66 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	400 W for LXM05AD10M2 at 200...240 V single phase 400 W for LXM05AD10M3X at 200...240 V 3 phases 400 W for LXM05BD10M2 at 200...240 V single phase 400 W for LXM05BD10M3X at 200...240 V 3 phases 400 W for LXM05CD10M2 at 200...240 V single phase 400 W for LXM05CD10M3X at 200...240 V 3 phases 411 W for LXM15LD13M3 at 230 V single phase 411 W for LXM15LU60N4 at 230 V 3 phases
Nominal speed	3000 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM15LU60N4 at 230 V 3 phases 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05AD10M3X at 200...240 V 3 phases 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05BD10M3X at 200...240 V 3 phases 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM05CD10M3X at 200...240 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 LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V 3 phases
Shaft end	Untapped
IP degree of protection	IP50
Encoder type	Absolute single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
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	1.3 N.m for LXM05AD10M2 at 200...240 V single phase 1.3 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05BD10M2 at 200...240 V single phase 1.3 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05CD10M2 at 200...240 V single phase 1.3 N.m for LXM05CD10M3X at 200...240 V 3 phases 1.31 N.m for LXM15LD13M3 at 230 V single phase 1.31 N.m for LXM15LU60N4 at 230 V 3 phases
Maximum current Irms	5.3 A for LXM15LD13M3 5.3 A for LXM15LU60N4 5.7 A for LXM05AD10M3X 5.7 A for LXM05BD10M2 5.7 A for LXM05BD10M3X 5.7 A for LXM05CD10M2 5.7 A for LXM05CD10M3X 5.7 A for LXM05AD10M2
Switching frequency	4 kHz for LEX05
Torque constant	0.78 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	46 V rms/krpm at 120 °C
Rotor inertia	0.25 kg.cm ² without brake
Stator resistance	10.4 Ohm at 20 °C 38.4 Ohm at 20 °C
Stator inductance	38.8 mH at 20 °C 42.6 mH at 20 °C
Stator electrical time constant	3.73 ms at 20 °C 4.1 ms at 20 °C
Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	2.2 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant