

BSH1401T02A1A

AC servo motor BSH - 11.4 Nm - 4000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	11.1 N.m for LXM15MD56N4 at 230 V 3 phases 11.4 N.m for LXM05AD42M3X at 200...240 V 3 phases 11.4 N.m for LXM05BD42M3X at 200...240 V 3 phases 11.4 N.m for LXM05CD42M3X at 200...240 V 3 phases
Peak stall torque	23.33 N.m for LXM15MD56N4 at 230 V 3 phases 23.33 N.m for LXM05AD42M3X at 200...240 V 3 phases 23.33 N.m for LXM05BD42M3X at 200...240 V 3 phases 23.33 N.m for LXM05CD42M3X at 200...240 V 3 phases
Nominal output power	2000 W for LXM15MD56N4 at 230 V 3 phases 2200 W for LXM05AD42M3X at 200...240 V 3 phases 2200 W for LXM05BD42M3X at 200...240 V 3 phases 2200 W for LXM05CD42M3X at 200...240 V 3 phases
Nominal speed	2500 rpm for LXM15MD56N4 at 230 V 3 phases 3000 rpm for LXM05AD42M3X at 200...240 V 3 phases 3000 rpm for LXM05BD42M3X at 200...240 V 3 phases 3000 rpm for LXM05CD42M3X at 200...240 V 3 phases
Maximum mechanical speed	4000 rpm
Product compatibility	LXM05AD42M3X at 200...240 V 3 phases LXM05BD42M3X at 200...240 V 3 phases LXM05CD42M3X at 200...240 V 3 phases LXM15MD56N4 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	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	10

The information provided in this documentation contains general descriptions and/or technical characteristics 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.

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	6.9 N.m for LXM05AD42M3X at 200...240 V 3 phases 6.9 N.m for LXM05BD42M3X at 200...240 V 3 phases 6.9 N.m for LXM05CD42M3X at 200...240 V 3 phases 7.63 N.m for LXM15MD56N4 at 230 V 3 phases
Maximum current I _{rms}	37.1 A for LXM15MD56N4 37.1 A for LXM05AD42M3X 37.1 A for LXM05BD42M3X 37.1 A for LXM05CD42M3X
Switching frequency	4 kHz for LEX05
Torque constant	0.83 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	56 V rms/krpm at 120 °C
Rotor inertia	7.41 kg.cm ² without brake
Stator resistance	0.4 Ohm at 20 °C 0.44 Ohm at 20 °C
Stator inductance	4.9 mH at 20 °C 5.15 mH at 20 °C
Stator electrical time constant	11.14 ms at 20 °C 12.88 ms at 20 °C
Maximum radial force Fr	1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	11.2 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant