

BSH2051M11A2A

AC servo motor BSH - 36 Nm - 3800 rpm - key
shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	34.4 N.m for LXM05AD57N4 at 380...480 V 3 phases 34.4 N.m for LXM05BD57N4 at 380...480 V 3 phases 34.4 N.m for LXM05CD57N4 at 380...480 V 3 phases 36 N.m for LXM15MD40N4 at 400 V 3 phases 36 N.m for LXM15MD40N4 at 480 V 3 phases 36 N.m for LXM15MD56N4 at 400 V 3 phases 36 N.m for LXM15MD56N4 at 480 V 3 phases 36 N.m for LXM15HC11N4X at 400 V 3 phases 36 N.m for LXM15HC11N4X at 480 V 3 phases
Peak stall torque	68.33 N.m for LXM15MD40N4 at 400 V 3 phases 68.33 N.m for LXM15MD40N4 at 480 V 3 phases 68.33 N.m for LXM15MD56N4 at 400 V 3 phases 68.33 N.m for LXM15MD56N4 at 480 V 3 phases 68.33 N.m for LXM15HC11N4X at 400 V 3 phases 68.33 N.m for LXM15HC11N4X at 480 V 3 phases 110 N.m for LXM05AD57N4 at 380...480 V 3 phases 110 N.m for LXM05BD57N4 at 380...480 V 3 phases 110 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	4500 W for LXM05AD57N4 at 380...480 V 3 phases 4500 W for LXM05BD57N4 at 380...480 V 3 phases 4500 W for LXM05CD57N4 at 380...480 V 3 phases 5000 W for LXM15MD40N4 at 400 V 3 phases 5000 W for LXM15MD56N4 at 400 V 3 phases 5000 W for LXM15HC11N4X at 400 V 3 phases 5500 W for LXM15MD40N4 at 480 V 3 phases 5500 W for LXM15MD56N4 at 480 V 3 phases 5500 W for LXM15HC11N4X at 480 V 3 phases
Nominal speed	1500 rpm for LXM15MD40N4 at 400 V 3 phases 1500 rpm for LXM15MD56N4 at 400 V 3 phases 1500 rpm for LXM15HC11N4X at 400 V 3 phases 1500 rpm for LXM05AD57N4 at 380...480 V 3 phases 1500 rpm for LXM05BD57N4 at 380...480 V 3 phases 1500 rpm for LXM05CD57N4 at 380...480 V 3 phases 1700 rpm for LXM15MD40N4 at 480 V 3 phases 1700 rpm for LXM15MD56N4 at 480 V 3 phases 1700 rpm for LXM15HC11N4X at 480 V 3 phases
Maximum mechanical speed	3800 rpm
Product compatibility	LXM05AD57N4 at 380...480 V 3 phases LXM05BD57N4 at 380...480 V 3 phases LXM05CD57N4 at 380...480 V 3 phases LXM15HC11N4X at 400 V 3 phases LXM15HC11N4X at 480 V 3 phases LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 V 3 phases LXM15MD56N4 at 400 V 3 phases LXM15MD56N4 at 480 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
Holding brake	Without

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.

Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	28.2 N.m for LXM05AD57N4 at 380...480 V 3 phases 28.2 N.m for LXM05BD57N4 at 380...480 V 3 phases 28.2 N.m for LXM05CD57N4 at 380...480 V 3 phases 31.2 N.m for LXM15MD40N4 at 480 V 3 phases 31.2 N.m for LXM15MD56N4 at 480 V 3 phases 31.2 N.m for LXM15HC11N4X at 480 V 3 phases 32 N.m for LXM15MD40N4 at 400 V 3 phases 32 N.m for LXM15MD56N4 at 400 V 3 phases 32 N.m for LXM15HC11N4X at 400 V 3 phases
Maximum current I _{rms}	40.4 A for LXM15MD40N4 40.4 A for LXM15MD56N4 40.4 A for LXM15HC11N4X 40.4 A for LXM05AD57N4 40.4 A for LXM05BD57N4 40.4 A for LXM05CD57N4
Switching frequency	4 kHz for LEX05
Torque constant	3.3 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	208 V rms/krpm at 120 °C
Rotor inertia	77 kg.cm ² without brake
Stator resistance	1.1 Ohm at 20 °C
Stator inductance	21.3 mH at 20 °C
Stator electrical time constant	19.36 ms at 20 °C 19.4 ms at 20 °C
Maximum radial force Fr	2580 N at 3000 rpm 2960 N at 2000 rpm 3730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	35 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant