

BSH1404M02F1P

AC servo motor BSH - 32.1 Nm - 4000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	32.1 N.m for LXM05AD57N4 at 380...480 V 3 phases 32.1 N.m for LXM05BD57N4 at 380...480 V 3 phases 32.1 N.m for LXM05CD57N4 at 380...480 V 3 phases 33.4 N.m for LXM15MD40N4 at 400 V 3 phases 33.4 N.m for LXM15MD40N4 at 480 V 3 phases 33.4 N.m for LXM15MD56N4 at 400 V 3 phases 33.4 N.m for LXM15MD56N4 at 480 V 3 phases
Peak stall torque	82.32 N.m for LXM15MD40N4 at 400 V 3 phases 82.32 N.m for LXM15MD56N4 at 480 V 3 phases 95 N.m for LXM15MD56N4 at 400 V 3 phases 95 N.m for LXM15MD56N4 at 480 V 3 phases 95 N.m for LXM05AD57N4 at 380...480 V 3 phases 95 N.m for LXM05BD57N4 at 380...480 V 3 phases 95 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	2800 W for LXM15MD40N4 at 400 V 3 phases 2800 W for LXM15MD56N4 at 400 V 3 phases 3900 W for LXM15MD40N4 at 480 V 3 phases 3900 W for LXM15MD56N4 at 480 V 3 phases 3900 W for LXM05AD57N4 at 380...480 V 3 phases 3900 W for LXM05BD57N4 at 380...480 V 3 phases 3900 W for LXM05CD57N4 at 380...480 V 3 phases
Nominal speed	1000 rpm for LXM15MD40N4 at 400 V 3 phases 1000 rpm for LXM15MD56N4 at 400 V 3 phases 1500 rpm for LXM15MD40N4 at 480 V 3 phases 1500 rpm for LXM15MD56N4 at 480 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
Maximum mechanical speed	4000 rpm
Product compatibility	LXM05AD57N4 at 380...480 V 3 phases LXM05BD57N4 at 380...480 V 3 phases LXM05CD57N4 at 380...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	Untapped
IP degree of protection	IP50
Encoder type	Absolute multturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
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 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.

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	24.9 N.m for LXM05AD57N4 at 380...480 V 3 phases 24.9 N.m for LXM05BD57N4 at 380...480 V 3 phases 24.9 N.m for LXM05CD57N4 at 380...480 V 3 phases 25 N.m for LXM15MD40N4 at 480 V 3 phases 25 N.m for LXM15MD56N4 at 480 V 3 phases 27 N.m for LXM15MD40N4 at 400 V 3 phases 27 N.m for LXM15MD56N4 at 400 V 3 phases
Maximum current Irms	47.8 A for LXM15MD40N4 47.8 A for LXM15MD56N4 47.8 A for LXM05AD57N4 47.8 A for LXM05BD57N4 47.8 A for LXM05CD57N4
Switching frequency	4 kHz for LEX05
Torque constant	3.12 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	208 V rms/krpm at 120 °C
Rotor inertia	29.2 kg.cm ² with brake
Stator resistance	1.12 Ohm at 20 °C
Stator inductance	15.6 mH at 20 °C 16.28 mH at 20 °C
Stator electrical time constant	13.93 ms at 20 °C 14.54 ms at 20 °C
Maximum radial force Fr	1840 N at 3000 rpm 2110 N at 2000 rpm 2660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	26.5 kg