

BSH1402M01A2A

AC servo motor BSH - 19.2 Nm - 4000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	19.2 N.m for LXM05AD34N4 at 380...480 V 3 phases 19.2 N.m for LXM05BD34N4 at 380...480 V 3 phases 19.2 N.m for LXM05CD34N4 at 380...480 V 3 phases 19.5 N.m for LXM15MD40N4 at 400 V 3 phases 19.5 N.m for LXM15MD40N4 at 480 V 3 phases
Peak stall torque	47.5 N.m for LXM15MD40N4 at 400 V 3 phases 47.5 N.m for LXM15MD40N4 at 480 V 3 phases 47.5 N.m for LXM05AD34N4 at 380...480 V 3 phases 47.5 N.m for LXM05BD34N4 at 380...480 V 3 phases 47.5 N.m for LXM05CD34N4 at 380...480 V 3 phases
Nominal output power	2350 W for LXM15MD40N4 at 400 V 3 phases 2350 W for LXM15MD40N4 at 480 V 3 phases 2350 W for LXM05AD34N4 at 380...480 V 3 phases 2350 W for LXM05BD34N4 at 380...480 V 3 phases 2350 W for LXM05CD34N4 at 380...480 V 3 phases
Nominal speed	1500 rpm for LXM15MD40N4 at 400 V 3 phases 1500 rpm for LXM15MD40N4 at 480 V 3 phases 1500 rpm for LXM05AD34N4 at 380...480 V 3 phases 1500 rpm for LXM05BD34N4 at 380...480 V 3 phases 1500 rpm for LXM05CD34N4 at 380...480 V 3 phases
Maximum mechanical speed	4000 rpm
Product compatibility	LXM05AD34N4 at 380...480 V 3 phases LXM05BD34N4 at 380...480 V 3 phases LXM05CD34N4 at 380...480 V 3 phases LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 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	Rotatable right-angled 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	15 N.m for LXM15MD40N4 at 400 V 3 phases 15 N.m for LXM15MD40N4 at 480 V 3 phases 15 N.m for LXM05AD34N4 at 380...480 V 3 phases 15 N.m for LXM05BD34N4 at 380...480 V 3 phases 15 N.m for LXM05CD34N4 at 380...480 V 3 phases
Maximum current Irms	22.4 A for LXM15MD40N4 22.4 A for LXM05AD34N4 22.4 A for LXM05BD34N4 22.4 A for LXM05CD34N4
Switching frequency	4 kHz for LEX05
Torque constant	2.91 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	199 V rms/krpm at 120 °C
Rotor inertia	12.68 kg.cm ² without brake
Stator resistance	2.3 Ohm at 20 °C 2.32 Ohm at 20 °C
Stator inductance	28.6 mH at 20 °C 29.79 mH at 20 °C
Stator electrical time constant	12.33 ms at 20 °C 12.85 ms at 20 °C
Maximum radial force Fr	1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	16 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant