

BSH1002M02A1A

AC servo motor BSH - 5.5 Nm - 6000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	5.5 N.m for LXM05AD14N4 at 380...480 V 3 phases 5.5 N.m for LXM05BD14N4 at 380...480 V 3 phases 5.5 N.m for LXM05CD14N4 at 380...480 V 3 phases
Peak stall torque	13.3 N.m for LXM05AD14N4 at 380...480 V 3 phases 13.3 N.m for LXM05BD14N4 at 380...480 V 3 phases 13.3 N.m for LXM05CD14N4 at 380...480 V 3 phases
Nominal output power	780 W for LXM05AD14N4 at 380...480 V 3 phases 780 W for LXM05BD14N4 at 380...480 V 3 phases 780 W for LXM05CD14N4 at 380...480 V 3 phases
Nominal speed	1500 rpm for LXM05AD14N4 at 380...480 V 3 phases 1500 rpm for LXM05BD14N4 at 380...480 V 3 phases 1500 rpm for LXM05CD14N4 at 380...480 V 3 phases
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD14N4 at 380...480 V 3 phases LXM05BD14N4 at 380...480 V 3 phases LXM05CD14N4 at 380...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	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	8

Complementary

Range compatibility	Lexium 05
Nominal torque	4.96 N.m for LXM05AD14N4 at 380...480 V 3 phases 4.96 N.m for LXM05BD14N4 at 380...480 V 3 phases 4.96 N.m for LXM05CD14N4 at 380...480 V 3 phases
Maximum current Irms	9 A for LXM05AD14N4 9 A for LXM05BD14N4 9 A for LXM05CD14N4
Switching frequency	4 kHz for LEX05
Torque constant	2.32 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	146 V rms/krpm at 120 °C
Rotor inertia	2.31 kg.cm ² without brake
Stator resistance	8.6 Ohm at 20 °C
Stator inductance	45.7 mH at 20 °C
Stator electrical time constant	5.31 ms at 20 °C
Maximum radial force Fr	620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 rpm

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the Schneider Electric group. It 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.

Maximum axial force Fa	0.2 x Fr
Product weight	5.9 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant