

BSH1401P12A1A

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

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	11.1 N.m for LXM15MD28N4 at 230 V 3 phases 11.1 N.m for LXM15MD28N4 at 400 V 3 phases 11.1 N.m for LXM15MD28N4 at 480 V 3 phases 11.1 N.m for LXM15MD40N4 at 400 V 3 phases 11.1 N.m for LXM15MD40N4 at 480 V 3 phases 11.1 N.m for LXM15LD28M3 at 230 V 3 phases 11.4 N.m for LXM05AD34N4 at 380...480 V 3 phases 11.4 N.m for LXM05BD34N4 at 380...480 V 3 phases 11.4 N.m for LXM05CD34N4 at 380...480 V 3 phases
Peak stall torque	23.33 N.m for LXM15MD28N4 at 230 V 3 phases 23.33 N.m for LXM15MD28N4 at 400 V 3 phases 23.33 N.m for LXM15MD28N4 at 480 V 3 phases 23.33 N.m for LXM15MD40N4 at 400 V 3 phases 23.33 N.m for LXM15MD40N4 at 480 V 3 phases 23.33 N.m for LXM05AD34N4 at 380...480 V 3 phases 23.33 N.m for LXM05BD34N4 at 380...480 V 3 phases 23.33 N.m for LXM05CD34N4 at 380...480 V 3 phases 23.8 N.m for LXM15LD28M3 at 230 V 3 phases
Nominal output power	1400 W for LXM15MD28N4 at 230 V 3 phases 1400 W for LXM15LD28M3 at 230 V 3 phases 2000 W for LXM15MD28N4 at 400 V 3 phases 2000 W for LXM15MD40N4 at 400 V 3 phases 2150 W for LXM15MD28N4 at 480 V 3 phases 2150 W for LXM15MD40N4 at 480 V 3 phases 2200 W for LXM05AD34N4 at 380...480 V 3 phases 2200 W for LXM05BD34N4 at 380...480 V 3 phases 2200 W for LXM05CD34N4 at 380...480 V 3 phases
Nominal speed	1500 rpm for LXM15MD28N4 at 230 V 3 phases 1500 rpm for LXM15LD28M3 at 230 V 3 phases 2500 rpm for LXM15MD28N4 at 400 V 3 phases 2500 rpm for LXM15MD40N4 at 400 V 3 phases 3000 rpm for LXM15MD28N4 at 480 V 3 phases 3000 rpm for LXM15MD40N4 at 480 V 3 phases 3000 rpm for LXM05AD34N4 at 380...480 V 3 phases 3000 rpm for LXM05BD34N4 at 380...480 V 3 phases 3000 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 LXM15LD28M3 at 230 V 3 phases LXM15MD28N4 at 230 V 3 phases LXM15MD28N4 at 400 V 3 phases LXM15MD28N4 at 480 V 3 phases LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 V 3 phases
Shaft end	Keyed
IP degree of protection	IP50
Encoder type	Absolute multiturn SinCos Hiperface

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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

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	6.8 N.m for LXM15MD28N4 at 480 V 3 phases 6.8 N.m for LXM15MD40N4 at 480 V 3 phases 6.9 N.m for LXM05AD34N4 at 380...480 V 3 phases 6.9 N.m for LXM05BD34N4 at 380...480 V 3 phases 6.9 N.m for LXM05CD34N4 at 380...480 V 3 phases 7.63 N.m for LXM15MD28N4 at 400 V 3 phases 7.63 N.m for LXM15MD40N4 at 400 V 3 phases 9.1 N.m for LXM15LD28M3 at 230 V 3 phases 9.1 N.m for LXM15MD28N4 at 230 V 3 phases
Maximum current Irms	20.8 A for LXM15LD28M3 20.8 A for LXM15MD28N4 20.8 A for LXM15MD40N4 20.8 A for LXM05AD34N4 20.8 A for LXM05BD34N4 20.8 A for LXM05CD34N4
Switching frequency	4 kHz for LEX05
Torque constant	1.43 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	100 V rms/krpm at 120 °C
Rotor inertia	7.41 kg.cm ² without brake
Stator resistance	1.41 Ohm at 20 °C
Stator inductance	15.6 mH at 20 °C 16.34 mH at 20 °C
Stator electrical time constant	11.06 ms at 20 °C 11.59 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