

# BSH1402M12A2A

AC servo motor BSH - 19.2 Nm - 4000 rpm -  
key 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	Keyed
IP degree of protection	IP50
Encoder type	Absolute multitrack SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

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## 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 <sup>2</sup> 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