

# BSH1001M02A1A

AC servo motor BSH - 3.4 Nm - 6000 rpm -  
untapped shaft - without brake - IP50

## Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	3.4 N.m for LXM05AD14N4 at 380...480 V 3 phases 3.4 N.m for LXM05BD14N4 at 380...480 V 3 phases 3.4 N.m for LXM05CD14N4 at 380...480 V 3 phases
Peak stall torque	7.1 N.m for LXM05AD14N4 at 380...480 V 3 phases 7.1 N.m for LXM05BD14N4 at 380...480 V 3 phases 7.1 N.m for LXM05CD14N4 at 380...480 V 3 phases
Nominal output power	500 W for LXM05AD14N4 at 380...480 V 3 phases 500 W for LXM05BD14N4 at 380...480 V 3 phases 500 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 multiturn 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	3.16 N.m for LXM05AD14N4 at 380...480 V 3 phases 3.16 N.m for LXM05BD14N4 at 380...480 V 3 phases 3.16 N.m for LXM05CD14N4 at 380...480 V 3 phases
Maximum current Irms	6.3 A for LXM05AD14N4 6.3 A for LXM05BD14N4 6.3 A for LXM05CD14N4
Switching frequency	4 kHz for LEX05
Torque constant	1.83 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	115 V rms/krpm at 120 °C
Rotor inertia	1.4 kg.cm <sup>2</sup> without brake
Stator resistance	13.9 Ohm at 20 °C
Stator inductance	64.3 mH at 20 °C
Stator electrical time constant	4.63 ms at 20 °C
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	4.2 kg

## Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant