

BSH1002M02F1A

AC servo motor BSH - 5.5 Nm - 6000 rpm -
untapped shaft - with 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	With
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	2.928 kg.cm ² with 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

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Maximum axial force Fa	0.2 x Fr
Product weight	5.9 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant