

BSH1404P02A1P

AC servo motor BSH - 32.1 Nm - 4000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	32.1 N.m for LXM05AD57N4 at 380...480 V 3 phases 32.1 N.m for LXM05BD57N4 at 380...480 V 3 phases 32.1 N.m for LXM05CD57N4 at 380...480 V 3 phases
Peak stall torque	63.09 N.m for LXM05AD57N4 at 380...480 V 3 phases 63.09 N.m for LXM05BD57N4 at 380...480 V 3 phases 63.09 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	3400 W for LXM05AD57N4 at 380...480 V 3 phases 3400 W for LXM05BD57N4 at 380...480 V 3 phases 3400 W for LXM05CD57N4 at 380...480 V 3 phases
Nominal speed	3000 rpm for LXM05AD57N4 at 380...480 V 3 phases 3000 rpm for LXM05BD57N4 at 380...480 V 3 phases 3000 rpm for LXM05CD57N4 at 380...480 V 3 phases
Maximum mechanical speed	4000 rpm
Product compatibility	LXM05AD57N4 at 380...480 V 3 phases LXM05BD57N4 at 380...480 V 3 phases LXM05CD57N4 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	10

Complementary

Range compatibility	Lexium 05
Nominal torque	10.8 N.m for LXM05AD57N4 at 380...480 V 3 phases 10.8 N.m for LXM05BD57N4 at 380...480 V 3 phases 10.8 N.m for LXM05CD57N4 at 380...480 V 3 phases
Maximum current Irms	95.6 A for LXM05AD57N4 95.6 A for LXM05BD57N4 95.6 A for LXM05CD57N4
Switching frequency	4 kHz for LEX05
Torque constant	1.57 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	104 V rms/krpm at 120 °C
Rotor inertia	23.7 kg.cm ² without brake
Stator resistance	0.28 Ohm at 20 °C
Stator inductance	3.9 mH at 20 °C
Stator electrical time constant	13.93 ms at 20 °C

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Maximum radial force F_r	1840 N at 3000 rpm 2110 N at 2000 rpm 2660 N at 1000 rpm
Maximum axial force F_a	$0.2 \times F_r$
Product weight	26.5 kg