

BSH0553M02F1A

AC servo motor BSH - 1.3 Nm - 8000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	1.3 N.m for LXM15LU60N4 at 400 V 3 phases 1.3 N.m for LXM15LU60N4 at 480 V 3 phases 1.3 N.m for LXM05AD10M2 at 200...240 V single phase 1.3 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05BD10M2 at 200...240 V single phase 1.3 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.3 N.m for LXM05CD10M2 at 200...240 V single phase 1.3 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	3.5 N.m for LXM15LU60N4 at 400 V 3 phases 3.5 N.m for LXM15LU60N4 at 480 V 3 phases 3.5 N.m for LXM05AD10M2 at 200...240 V single phase 3.5 N.m for LXM05AD10M3X at 200...240 V 3 phases 3.5 N.m for LXM05BD10M2 at 200...240 V single phase 3.5 N.m for LXM05BD10M3X at 200...240 V 3 phases 3.5 N.m for LXM05CD10M2 at 200...240 V single phase 3.5 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	190 W for LXM05AD10M2 at 200...240 V single phase 190 W for LXM05AD10M3X at 200...240 V 3 phases 190 W for LXM05BD10M2 at 200...240 V single phase 190 W for LXM05BD10M3X at 200...240 V 3 phases 190 W for LXM05CD10M2 at 200...240 V single phase 190 W for LXM05CD10M3X at 200...240 V 3 phases 460 W for LXM15LU60N4 at 400 V 3 phases 524 W for LXM15LU60N4 at 480 V 3 phases
Nominal speed	1500 rpm for LXM05AD10M2 at 200...240 V single phase 1500 rpm for LXM05AD10M3X at 200...240 V 3 phases 1500 rpm for LXM05BD10M2 at 200...240 V single phase 1500 rpm for LXM05BD10M3X at 200...240 V 3 phases 1500 rpm for LXM05CD10M2 at 200...240 V single phase 1500 rpm for LXM05CD10M3X at 200...240 V 3 phases 4000 rpm for LXM15LU60N4 at 400 V 3 phases 5000 rpm for LXM15LU60N4 at 480 V 3 phases
Maximum mechanical speed	8000 rpm

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Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V 3 phases LXM05BD10M2 at 200...240 V single phase LXM05BD10M3X at 200...240 V 3 phases LXM05CD10M2 at 200...240 V single phase LXM05CD10M3X at 200...240 V 3 phases LXM15LU60N4 at 400 V 3 phases LXM15LU60N4 at 480 V 3 phases
Shaft end	Untapped
IP degree of protection	IP50
Encoder type	Absolute multitrans 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	6

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	1.1 N.m for LXM15LU60N4 at 400 V 3 phases 1.1 N.m for LXM15LU60N4 at 480 V 3 phases 1.2 N.m for LXM05AD10M2 at 200...240 V single phase 1.2 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.2 N.m for LXM05BD10M2 at 200...240 V single phase 1.2 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.2 N.m for LXM05CD10M2 at 200...240 V single phase 1.2 N.m for LXM05CD10M3X at 200...240 V 3 phases
Maximum current Irms	3.4 A for LXM05CD10M3X 3.4 A for LXM05AD10M2 3.4 A for LXM05AD10M3X 3.4 A for LXM05BD10M2 3.4 A for LXM05BD10M3X 3.4 A for LXM05CD10M2 3.6 A for LXM15LU60N4
Switching frequency	4 kHz for LEX05
Torque constant	1.18 N.m/A rms at 120 °C 1.33 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	78 V rms/krpm at 120 °C 79 V rms/krpm at 120 °C
Rotor inertia	0.2113 kg.cm ² with brake
Stator resistance	32 Ohm at 20 °C 38.4 Ohm at 20 °C
Stator inductance	48 mH at 20 °C 92.2 mH at 20 °C
Stator electrical time constant	1.5 ms at 20 °C 2.4 ms at 20 °C
Maximum radial force Fr	190 N at 8000 rpm 200 N at 7000 rpm 210 N at 6000 rpm 230 N at 5000 rpm 240 N at 4000 rpm 270 N at 3000 rpm 310 N at 2000 rpm 390 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	1.76 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant