

Product data sheet

Characteristics

BSH0701M01A1A

AC servo motor BSH - 1.4 Nm - 8000 rpm -
untapped shaft - without brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	1.4 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.4 N.m for LXM05CD10M3X at 200...240 V 3 phases
Peak stall torque	2.66 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.66 N.m for LXM05CD10M3X at 200...240 V 3 phases
Nominal output power	210 W for LXM05AD10M3X at 200...240 V 3 phases 210 W for LXM05BD10M3X at 200...240 V 3 phases 210 W for LXM05CD10M3X at 200...240 V 3 phases
Nominal speed	1500 rpm for LXM05AD10M3X at 200...240 V 3 phases 1500 rpm for LXM05BD10M3X at 200...240 V 3 phases 1500 rpm for LXM05CD10M3X at 200...240 V 3 phases
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD10M3X at 200...240 V 3 phases LXM05BD10M3X at 200...240 V 3 phases LXM05CD10M3X at 200...240 V 3 phases
Shaft end	Untapped
IP degree of protection	IP50
Encoder type	Absolute single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	6

Complementary

Range compatibility	Lexium 05
Nominal torque	1.36 N.m for LXM05AD10M3X at 200...240 V 3 phases 1.36 N.m for LXM05BD10M3X at 200...240 V 3 phases 1.36 N.m for LXM05CD10M3X at 200...240 V 3 phases
Maximum current Irms	3.1 A for LXM05AD10M3X 3.1 A for LXM05BD10M3X 3.1 A for LXM05CD10M3X
Switching frequency	4 kHz for LEX05
Torque constant	1.4 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	85 V rms/krpm at 120 °C
Rotor inertia	0.25 kg.cm² without brake
Stator resistance	35.4 Ohm at 20 °C
Stator inductance	131.9 mH at 20 °C
Stator electrical time constant	3.73 ms at 20 °C

Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	2.2 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant
