

BSH0553T01F1A

AC servo motor BSH - 1.3 Nm - 9000 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 LXM05AD17F1 at 110...120 V single phase 1.3 N.m for LXM05AD17M2 at 200...240 V single phase 1.3 N.m for LXM05AD17M3X at 200...240 V 3 phases 1.3 N.m for LXM05BD17F1 at 110...120 V single phase 1.3 N.m for LXM05BD17M2 at 200...240 V single phase 1.3 N.m for LXM05BD17M3X at 200...240 V 3 phases 1.3 N.m for LXM05CD17F1 at 110...120 V single phase 1.3 N.m for LXM05CD17M2 at 200...240 V single phase 1.3 N.m for LXM05CD17M3X at 200...240 V 3 phases
Peak stall torque	3.31 N.m for LXM05AD17F1 at 110...120 V single phase 3.31 N.m for LXM05AD17M2 at 200...240 V single phase 3.31 N.m for LXM05AD17M3X at 200...240 V 3 phases 3.31 N.m for LXM05BD17F1 at 110...120 V single phase 3.31 N.m for LXM05BD17M2 at 200...240 V single phase 3.31 N.m for LXM05BD17M3X at 200...240 V 3 phases 3.31 N.m for LXM05CD17F1 at 110...120 V single phase 3.31 N.m for LXM05CD17M2 at 200...240 V single phase 3.31 N.m for LXM05CD17M3X at 200...240 V 3 phases
Nominal output power	350 W for LXM05AD17F1 at 110...120 V single phase 350 W for LXM05AD17M2 at 200...240 V single phase 350 W for LXM05AD17M3X at 200...240 V 3 phases 350 W for LXM05BD17F1 at 110...120 V single phase 350 W for LXM05BD17M2 at 200...240 V single phase 350 W for LXM05BD17M3X at 200...240 V 3 phases 350 W for LXM05CD17F1 at 110...120 V single phase 350 W for LXM05CD17M2 at 200...240 V single phase 350 W for LXM05CD17M3X at 200...240 V 3 phases

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Nominal speed	3000 rpm for LXM05AD17F1 at 110...120 V single phase 3000 rpm for LXM05AD17M2 at 200...240 V single phase 3000 rpm for LXM05AD17M3X at 200...240 V 3 phases 3000 rpm for LXM05BD17F1 at 110...120 V single phase 3000 rpm for LXM05BD17M2 at 200...240 V single phase 3000 rpm for LXM05BD17M3X at 200...240 V 3 phases 3000 rpm for LXM05CD17F1 at 110...120 V single phase 3000 rpm for LXM05CD17M2 at 200...240 V single phase 3000 rpm for LXM05CD17M3X at 200...240 V 3 phases
Maximum mechanical speed	9000 rpm
Product compatibility	LXM05AD17F1 at 110...120 V single phase LXM05AD17M2 at 200...240 V single phase LXM05AD17M3X at 200...240 V 3 phases LXM05BD17F1 at 110...120 V single phase LXM05BD17M2 at 200...240 V single phase LXM05BD17M3X at 200...240 V 3 phases LXM05CD17F1 at 110...120 V single phase LXM05CD17M2 at 200...240 V single phase LXM05CD17M3X 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	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	6

Complementary

Range compatibility	Lexium 05
Nominal torque	1.1 N.m for LXM05AD17F1 at 110...120 V single phase 1.1 N.m for LXM05AD17M2 at 200...240 V single phase 1.1 N.m for LXM05AD17M3X at 200...240 V 3 phases 1.1 N.m for LXM05BD17F1 at 110...120 V single phase 1.1 N.m for LXM05BD17M2 at 200...240 V single phase 1.1 N.m for LXM05BD17M3X at 200...240 V 3 phases 1.1 N.m for LXM05CD17F1 at 110...120 V single phase 1.1 N.m for LXM05CD17M2 at 200...240 V single phase 1.1 N.m for LXM05CD17M3X at 200...240 V 3 phases
Maximum current Irms	11.9 A for LXM05AD17F1 11.9 A for LXM05AD17M2 11.9 A for LXM05AD17M3X 11.9 A for LXM05BD17F1 11.9 A for LXM05BD17M2 11.9 A for LXM05BD17M3X 11.9 A for LXM05CD17F1 11.9 A for LXM05CD17M2 11.9 A for LXM05CD17M3X
Switching frequency	8 kHz for LEX05
Torque constant	0.39 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	22 V rms/krpm at 120 °C
Rotor inertia	0.1553 kg.cm ² with brake
Stator resistance	3.1 Ohm at 20 °C
Stator inductance	7.4 mH at 20 °C
Stator electrical time constant	2.39 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