

BSH1403P02F1P

AC servo motor BSH - 22.2 Nm - 4000 rpm -
untapped shaft - with brake - IP50

Main

Product or component type	AC servo motors
Component name	BSH
Continuous stall torque	22.2 N.m for LXM15MD40N4 at 230 V 3 phases 22.2 N.m for LXM15MD40N4 at 400 V 3 phases 22.2 N.m for LXM15MD40N4 at 480 V 3 phases 25.4 N.m for LXM05AD57N4 at 380...480 V 3 phases 25.4 N.m for LXM05BD57N4 at 380...480 V 3 phases 25.4 N.m for LXM05CD57N4 at 380...480 V 3 phases 27.8 N.m for LXM15MD56N4 at 230 V 3 phases 27.8 N.m for LXM15MD56N4 at 400 V 3 phases 27.8 N.m for LXM15MD56N4 at 480 V 3 phases
Peak stall torque	41.6 N.m for LXM15MD40N4 at 230 V 3 phases 41.6 N.m for LXM15MD40N4 at 400 V 3 phases 41.6 N.m for LXM15MD40N4 at 480 V 3 phases 57.3 N.m for LXM15MD56N4 at 230 V 3 phases 57.3 N.m for LXM15MD56N4 at 400 V 3 phases 57.3 N.m for LXM15MD56N4 at 480 V 3 phases 57.32 N.m for LXM05AD57N4 at 380...480 V 3 phases 57.32 N.m for LXM05BD57N4 at 380...480 V 3 phases 57.32 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	3000 W for LXM15MD40N4 at 230 V 3 phases 3000 W for LXM15MD56N4 at 230 V 3 phases 3400 W for LXM15MD40N4 at 480 V 3 phases 3400 W for LXM15MD56N4 at 480 V 3 phases 3900 W for LXM15MD40N4 at 400 V 3 phases 3900 W for LXM15MD56N4 at 400 V 3 phases 3900 W for LXM05AD57N4 at 380...480 V 3 phases 3900 W for LXM05BD57N4 at 380...480 V 3 phases 3900 W for LXM05CD57N4 at 380...480 V 3 phases
Nominal speed	1500 rpm for LXM15MD40N4 at 230 V 3 phases 1500 rpm for LXM15MD56N4 at 230 V 3 phases 3000 rpm for LXM15MD40N4 at 400 V 3 phases 3000 rpm for LXM15MD56N4 at 400 V 3 phases 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 4000 rpm for LXM15MD40N4 at 480 V 3 phases 4000 rpm for LXM15MD56N4 at 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 LXM15MD40N4 at 230 V 3 phases LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 V 3 phases LXM15MD56N4 at 230 V 3 phases LXM15MD56N4 at 400 V 3 phases LXM15MD56N4 at 480 V 3 phases
Shaft end	Untapped
IP degree of protection	IP50
Encoder type	Absolute multitem SinCos Hiperface

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Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	10

Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	8.1 N.m for LXM15MD40N4 at 480 V 3 phases 8.1 N.m for LXM15MD56N4 at 480 V 3 phases 12.4 N.m for LXM15MD40N4 at 400 V 3 phases 12.4 N.m for LXM15MD56N4 at 400 V 3 phases 12.43 N.m for LXM05AD57N4 at 380...480 V 3 phases 12.43 N.m for LXM05BD57N4 at 380...480 V 3 phases 12.43 N.m for LXM05CD57N4 at 380...480 V 3 phases 18.8 N.m for LXM15MD40N4 at 230 V 3 phases 18.8 N.m for LXM15MD56N4 at 230 V 3 phases
Maximum current Irms	61 A for LXM15MD40N4 61 A for LXM15MD56N4 61 A for LXM05AD57N4 61 A for LXM05BD57N4 61 A for LXM05CD57N4
Switching frequency	4 kHz for LEX05
Torque constant	1.59 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	105 V rms/krpm at 120 °C
Rotor inertia	23.44 kg.cm ² with brake
Stator resistance	0.4 Ohm at 20 °C
Stator inductance	5.1 mH at 20 °C 5.32 mH at 20 °C
Stator electrical time constant	12.75 ms at 20 °C 13.3 ms at 20 °C
Maximum radial force Fr	1780 N at 3000 rpm 2030 N at 2000 rpm 2560 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	21.2 kg