

# BSH1404M01F2P

AC servo motor BSH - 32.1 Nm - 4000 rpm -  
untapped shaft - with 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 33.4 N.m for LXM15MD40N4 at 400 V 3 phases 33.4 N.m for LXM15MD40N4 at 480 V 3 phases 33.4 N.m for LXM15MD56N4 at 400 V 3 phases 33.4 N.m for LXM15MD56N4 at 480 V 3 phases
Peak stall torque	82.32 N.m for LXM15MD40N4 at 400 V 3 phases 82.32 N.m for LXM15MD40N4 at 480 V 3 phases 95 N.m for LXM15MD56N4 at 400 V 3 phases 95 N.m for LXM15MD56N4 at 480 V 3 phases 95 N.m for LXM05AD57N4 at 380...480 V 3 phases 95 N.m for LXM05BD57N4 at 380...480 V 3 phases 95 N.m for LXM05CD57N4 at 380...480 V 3 phases
Nominal output power	2800 W for LXM15MD40N4 at 400 V 3 phases 2800 W for LXM15MD56N4 at 400 V 3 phases 3900 W for LXM15MD40N4 at 480 V 3 phases 3900 W for LXM15MD56N4 at 480 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	1000 rpm for LXM15MD40N4 at 400 V 3 phases 1000 rpm for LXM15MD56N4 at 400 V 3 phases 1500 rpm for LXM15MD40N4 at 480 V 3 phases 1500 rpm for LXM15MD56N4 at 480 V 3 phases 1500 rpm for LXM05AD57N4 at 380...480 V 3 phases 1500 rpm for LXM05BD57N4 at 380...480 V 3 phases 1500 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 LXM15MD40N4 at 400 V 3 phases LXM15MD40N4 at 480 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 single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

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## Complementary

Range compatibility	Lexium 05 Lexium 15
Nominal torque	24.9 N.m for LXM05AD57N4 at 380...480 V 3 phases 24.9 N.m for LXM05BD57N4 at 380...480 V 3 phases 24.9 N.m for LXM05CD57N4 at 380...480 V 3 phases 25 N.m for LXM15MD40N4 at 480 V 3 phases 25 N.m for LXM15MD56N4 at 480 V 3 phases 27 N.m for LXM15MD40N4 at 400 V 3 phases 27 N.m for LXM15MD56N4 at 400 V 3 phases
Maximum current Irms	47.8 A for LXM15MD40N4 47.8 A for LXM15MD56N4 47.8 A for LXM05AD57N4 47.8 A for LXM05BD57N4 47.8 A for LXM05CD57N4
Switching frequency	4 kHz for LEX05
Torque constant	3.12 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	208 V rms/krpm at 120 °C
Rotor inertia	29.2 kg.cm <sup>2</sup> with brake
Stator resistance	1.12 Ohm at 20 °C
Stator inductance	15.6 mH at 20 °C 16.28 mH at 20 °C
Stator electrical time constant	13.93 ms at 20 °C 14.54 ms at 20 °C
Maximum radial force Fr	1840 N at 3000 rpm 2110 N at 2000 rpm 2660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	26.5 kg