

BSH1001M12A2A

AC servo motor BSH - 3.4 Nm - 6000 rpm - key shaft - without brake - IP50

Main

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| Product or component type | AC servo motors |
| Component name | BSH |
| Continuous stall torque | 3.4 N.m for LXM05AD14N4 at 380...480 V 3 phases 3.4 N.m for LXM05BD14N4 at 380...480 V 3 phases 3.4 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Peak stall torque | 7.1 N.m for LXM05AD14N4 at 380...480 V 3 phases 7.1 N.m for LXM05BD14N4 at 380...480 V 3 phases 7.1 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Nominal output power | 500 W for LXM05AD14N4 at 380...480 V 3 phases 500 W for LXM05BD14N4 at 380...480 V 3 phases 500 W for LXM05CD14N4 at 380...480 V 3 phases |
| Nominal speed | 1500 rpm for LXM05AD14N4 at 380...480 V 3 phases 1500 rpm for LXM05BD14N4 at 380...480 V 3 phases 1500 rpm for LXM05CD14N4 at 380...480 V 3 phases |
| Maximum mechanical speed | 6000 rpm |
| Product compatibility | LXM05AD14N4 at 380...480 V 3 phases LXM05BD14N4 at 380...480 V 3 phases LXM05CD14N4 at 380...480 V 3 phases |
| Shaft end | Keyed |
| IP degree of protection | IP50 |
| Encoder type | Absolute multiturn SinCos Hiperface |
| Encoder feedback resolution | 131072 points/turn x 4096 turns |
| Holding brake | Without |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |
| Number of poles | 8 |

Complementary

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| Range compatibility | Lexium 05 |
| Nominal torque | 3.16 N.m for LXM05AD14N4 at 380...480 V 3 phases 3.16 N.m for LXM05BD14N4 at 380...480 V 3 phases 3.16 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Maximum current Irms | 6.3 A for LXM05AD14N4 6.3 A for LXM05BD14N4 6.3 A for LXM05CD14N4 |
| Switching frequency | 4 kHz for LEX05 |
| Torque constant | 1.83 N.m/A rms at 120 °C |
| Back electromagnetical force (emf) constant | 115 V rms/krpm at 120 °C |
| Rotor inertia | 1.4 kg.cm ² without brake |
| Stator resistance | 13.9 Ohm at 20 °C |
| Stator inductance | 64.3 mH at 20 °C |
| Stator electrical time constant | 4.63 ms at 20 °C |
| Maximum radial force Fr | 530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Product weight | 4.2 kg |

Environment

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|--------------------------|-----------|
| RoHS EUR conformity date | 0850 |
| RoHS EUR status | Compliant |