

BSH0702M01A1A

AC servo motor BSH - 2.1 Nm - 8000 rpm -
untapped shaft - without brake - IP50

Main

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|---------------------------|---|
| Product or component type | AC servo motors |
| Component name | BSH |
| Continuous stall torque | 2.12 N.m for LXM15LU60N4 at 400 V 3 phases 2.12 N.m for LXM15LU60N4 at 480 V 3 phases 2.12 N.m for LXM05AD10M2 at 200...240 V single phase 2.12 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.12 N.m for LXM05BD10M2 at 200...240 V single phase 2.12 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.12 N.m for LXM05CD10M2 at 200...240 V single phase 2.12 N.m for LXM05CD10M3X at 200...240 V 3 phases |
| Peak stall torque | 5.63 N.m for LXM15LU60N4 at 400 V 3 phases 5.63 N.m for LXM15LU60N4 at 480 V 3 phases 5.63 N.m for LXM05AD10M2 at 200...240 V single phase 5.63 N.m for LXM05AD10M3X at 200...240 V 3 phases 5.63 N.m for LXM05BD10M2 at 200...240 V single phase 5.63 N.m for LXM05BD10M3X at 200...240 V 3 phases 5.63 N.m for LXM05CD10M2 at 200...240 V single phase 5.63 N.m for LXM05CD10M3X at 200...240 V 3 phases |
| Nominal output power | 300 W for LXM05AD10M2 at 200...240 V single phase 300 W for LXM05AD10M3X at 200...240 V 3 phases 300 W for LXM05BD10M2 at 200...240 V single phase 300 W for LXM05BD10M3X at 200...240 V 3 phases 300 W for LXM05CD10M2 at 200...240 V single phase 300 W for LXM05CD10M3X at 200...240 V 3 phases 594 W for LXM15LU60N4 at 400 V 3 phases 753 W for LXM15LU60N4 at 480 V 3 phases |
| Nominal speed | 1500 rpm for LXM05AD10M2 at 200...240 V single phase 1500 rpm for LXM05AD10M3X at 200...240 V 3 phases 1500 rpm for LXM05BD10M2 at 200...240 V single phase 1500 rpm for LXM05BD10M3X at 200...240 V 3 phases 1500 rpm for LXM05CD10M2 at 200...240 V single phase 1500 rpm for LXM05CD10M3X at 200...240 V 3 phases 3000 rpm for LXM15LU60N4 at 400 V 3 phases 4000 rpm for LXM15LU60N4 at 480 V 3 phases |
| Maximum mechanical speed | 8000 rpm |

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| Product compatibility | LXM05AD10M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V 3 phases LXM05BD10M2 at 200...240 V single phase LXM05BD10M3X at 200...240 V 3 phases LXM05CD10M2 at 200...240 V single phase LXM05CD10M3X at 200...240 V 3 phases LXM15LU60N4 at 400 V 3 phases LXM15LU60N4 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 | Without |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |
| Number of poles | 6 |

Complementary

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| Range compatibility | Lexium 05 Lexium 15 |
| Nominal torque | 1.8 N.m for LXM15LU60N4 at 480 V 3 phases 1.89 N.m for LXM15LU60N4 at 400 V 3 phases 2 N.m for LXM05AD10M2 at 200...240 V single phase 2 N.m for LXM05AD10M3X at 200...240 V 3 phases 2 N.m for LXM05BD10M2 at 200...240 V single phase 2 N.m for LXM05BD10M3X at 200...240 V 3 phases 2 N.m for LXM05CD10M2 at 200...240 V single phase 2 N.m for LXM05CD10M3X at 200...240 V 3 phases |
| Maximum current Irms | 5.9 A for LXM15LU60N4 6 A for LXM05AD10M2 6 A for LXM05AD10M3X 6 A for LXM05BD10M2 6 A for LXM05BD10M3X 6 A for LXM05CD10M2 6 A for LXM05CD10M3X |
| Switching frequency | 4 kHz for LEX05 |
| Torque constant | 1.46 N.m/A rms at 120 °C 1.47 N.m/A rms at 120 °C |
| Back electromagnetical force (emf) constant | 93 V rms/krpm at 120 °C 95 V rms/krpm at 120 °C |
| Rotor inertia | 0.41 kg.cm ² without brake |
| Stator resistance | 16.4 Ohm at 20 °C 17.3 Ohm at 20 °C |
| Stator inductance | 74.1 mH at 20 °C 84.4 mH at 20 °C |
| Stator electrical time constant | 4.52 ms at 20 °C 4.88 ms at 20 °C |
| Maximum radial force Fr | 390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Product weight | 2.89 kg |

Environment

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