

BSH0552P02A2A

AC servo motor BSH - 0.9 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 | 0.9 N.m for LXM15LD13M3 at 230 V single phase 0.9 N.m for LXM15LD13M3 at 230 V 3 phases 0.9 N.m for LXM15LU60N4 at 230 V 3 phases 0.9 N.m for LXM05CU70M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M3X at 200...240 V 3 phases 0.9 N.m for LXM05AD14N4 at 380...480 V 3 phases 0.9 N.m for LXM05BD10M2 at 200...240 V single phase 0.9 N.m for LXM05BD10M3X at 200...240 V 3 phases 0.9 N.m for LXM05BD14N4 at 380...480 V 3 phases 0.9 N.m for LXM05CD10M2 at 200...240 V single phase 0.9 N.m for LXM05CD10M3X at 200...240 V 3 phases 0.9 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Peak stall torque | 2.17 N.m for LXM05CU70M2 at 200...240 V single phase 2.26 N.m for LXM15LU60N4 at 230 V 3 phases 2.5 N.m for LXM15LD13M3 at 230 V single phase 2.5 N.m for LXM15LD13M3 at 230 V 3 phases 2.7 N.m for LXM05AD10M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05AD14N4 at 380...480 V 3 phases 2.7 N.m for LXM05BD10M2 at 200...240 V single phase 2.7 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05BD14N4 at 380...480 V 3 phases 2.7 N.m for LXM05CD10M2 at 200...240 V single phase 2.7 N.m for LXM05CD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Nominal output power | 250 W for LXM05CU70M2 at 200...240 V single phase 250 W for LXM05AD10M2 at 200...240 V single phase 250 W for LXM05AD10M3X at 200...240 V 3 phases 250 W for LXM05AD14N4 at 380...480 V 3 phases 250 W for LXM05BD10M2 at 200...240 V single phase 250 W for LXM05BD10M3X at 200...240 V 3 phases 250 W for LXM05BD14N4 at 380...480 V 3 phases 250 W for LXM05CD10M2 at 200...240 V single phase 250 W for LXM05CD10M3X at 200...240 V 3 phases 250 W for LXM05CD14N4 at 380...480 V 3 phases 310 W for LXM15LD13M3 at 230 V single phase 310 W for LXM15LD13M3 at 230 V 3 phases 310 W for LXM15LU60N4 at 230 V 3 phases |

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| Nominal speed | 3000 rpm for LXM05CU70M2 at 200...240 V single phase 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05AD10M3X at 200...240 V 3 phases 3000 rpm for LXM05AD14N4 at 380...480 V 3 phases 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05BD10M3X at 200...240 V 3 phases 3000 rpm for LXM05BD14N4 at 380...480 V 3 phases 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM05CD10M3X at 200...240 V 3 phases 3000 rpm for LXM05CD14N4 at 380...480 V 3 phases 4000 rpm for LXM15LD13M3 at 230 V single phase 4000 rpm for LXM15LD13M3 at 230 V 3 phases 4000 rpm for LXM15LU60N4 at 230 V 3 phases |
| Maximum mechanical speed | 8000 rpm |
| Product compatibility | LXM05AD10M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V 3 phases LXM05AD14N4 at 380...480 V 3 phases LXM05BD10M2 at 200...240 V single phase LXM05BD10M3X at 200...240 V 3 phases LXM05BD14N4 at 380...480 V 3 phases LXM05CD10M2 at 200...240 V single phase LXM05CD10M3X at 200...240 V 3 phases LXM05CD14N4 at 380...480 V 3 phases LXM05CU70M2 at 200...240 V single phase LXM15LD13M3 at 230 V single phase LXM15LD13M3 at 230 V 3 phases LXM15LU60N4 at 230 V 3 phases |
| Shaft end | Untapped |
| 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 | 6 |

Complementary

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| Range compatibility | Lexium 05 Lexium 15 |
| Nominal torque | 0.75 N.m for LXM15LD13M3 at 230 V single phase 0.75 N.m for LXM15LD13M3 at 230 V 3 phases 0.75 N.m for LXM15LU60N4 at 230 V 3 phases 2.17 N.m for LXM05CU70M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M2 at 200...240 V single phase 2.7 N.m for LXM05AD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05AD14N4 at 380...480 V 3 phases 2.7 N.m for LXM05BD10M2 at 200...240 V single phase 2.7 N.m for LXM05BD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05BD14N4 at 380...480 V 3 phases 2.7 N.m for LXM05CD10M2 at 200...240 V single phase 2.7 N.m for LXM05CD10M3X at 200...240 V 3 phases 2.7 N.m for LXM05CD14N4 at 380...480 V 3 phases |
| Maximum current Irms | 4.8 A for LXM05CU70M2 4.8 A for LXM05AD10M2 4.8 A for LXM05AD10M3X 4.8 A for LXM05AD14N4 4.8 A for LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD14N4 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD14N4 5.9 A for LXM15LD13M3 5.9 A for LXM15LU60N4 |
| Switching frequency | 8 kHz for LEX05 |
| Torque constant | 0.56 N.m/A rms at 120 °C 0.7 N.m/A rms at 120 °C |
| Back electromagnetical force (emf) constant | 37 V rms/krpm at 120 °C 40 V rms/krpm at 120 °C |
| Rotor inertia | 0.14 kg.cm ² without brake |
| Stator resistance | 15.5 Ohm at 20 °C 17.4 Ohm at 20 °C |
| Stator inductance | 19.2 mH at 20 °C 35.3 mH at 20 °C |
| Stator electrical time constant | 1.24 ms at 20 °C 2.03 ms at 20 °C |
| Maximum radial force Fr | 190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Product weight | 1.47 kg |

Environment

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