

BSH1002M01A2A

AC servo motor BSH - 5.5 N.m - 1500 rpm -
untapped shaft - without brake - IP50



Main

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|---------------------------|---|
| Product or component type | Servo motor |
| Device short name | BSH |
| Maximum mechanical speed | 6000 rpm |
| Continuous stall torque | 5.5 N.m for LXM05AD14N4 at 380...480 V three phase 5.5 N.m for LXM05BD14N4 at 380...480 V three phase 5.5 N.m for LXM05CD14N4 at 380...480 V three phase |
| Peak stall torque | 13.3 N.m for LXM05AD14N4 at 380...480 V three phase 13.3 N.m for LXM05BD14N4 at 380...480 V three phase 13.3 N.m for LXM05CD14N4 at 380...480 V three phase |
| Nominal output power | 780 W for LXM05AD14N4 at 380...480 V three phase 780 W for LXM05BD14N4 at 380...480 V three phase 780 W for LXM05CD14N4 at 380...480 V three phase |
| Nominal torque | 4.96 N.m for LXM05AD14N4 at 380...480 V three phase 4.96 N.m for LXM05BD14N4 at 380...480 V three phase 4.96 N.m for LXM05CD14N4 at 380...480 V three phase |
| Nominal speed | 1500 rpm for LXM05AD14N4 at 380...480 V three phase 1500 rpm for LXM05BD14N4 at 380...480 V three phase 1500 rpm for LXM05CD14N4 at 380...480 V three phase |
| Product compatibility | LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...480 V three phase |
| Shaft end | Untapped |
| IP degree of protection | IP50 (standard) |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | Without |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |

Complementary

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|---------------------|-----------|
| Range compatibility | Lexium 05 |
| Supply voltage max | 480 V |

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|---------------------------------------|--|
| Network number of phases | Three phase |
| Continuous stall current | 2.5 A |
| Maximum continuous power | 2.51 W |
| Maximum current Irms | 9 A for LXM05AD14N4 9 A for LXM05BD14N4 9 A for LXM05CD14N4 |
| Maximum permanent current | 9 A |
| Switching frequency | 4 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 19 mm |
| Shaft length | 40 mm |
| Feedback type | Single turn SinCos Hiperface |
| Motor flange size | 100 mm |
| Torque constant | 2.32 N.m/A at 120 °C |
| Back emf constant | 146 V/krpm at 120 °C |
| Number of motor poles | 8 |
| Rotor inertia | 2.31 kg.cm ² |
| Stator resistance | 8.6 Ohm at 20 °C |
| Stator inductance | 45.7 mH at 20 °C |
| Stator electrical time constant | 5.31 ms at 20 °C |
| Maximum radial force Fr | 620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 204.5 mm |
| Centring collar diameter | 95 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9 mm |
| Circle diameter of the mounting holes | 115 mm |
| Product weight | 5.9 kg |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0850 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
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