



Main

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|---------------------------|------------------------------|
| Range compatibility | Lexium 32i |
| Product or component type | Servo motor with power stage |
| Device short name | BMI |

Complementary

| | |
|---------------------------|---|
| Maximum mechanical speed | 6000 rpm |
| [Us] rated supply voltage | 208...480 V - 15...10 % |
| Supply voltage limits | 208...480 V |
| Network number of phases | Three phase |
| Supply frequency | 50/60 Hz - 5...5 % |
| Network frequency limits | 47.5...63 Hz |
| EMC filter | Integrated |
| Continuous output current | 4 A at 8 kHz |
| Output current 3s peak | 12 A at 400 V for 3 s |
| Continuous stall current | 4 A |
| Continuous stall torque | 6 N.m at 208...480 V three phase |
| Peak stall torque | 14 N.m at 208 V three phase 14 N.m at 400 V three phase 14 N.m at 480 V three phase |
| Nominal output power | 1000 W at 208 V three phase 1900 W at 400 V three phase 1900 W at 480 V three phase |
| Nominal torque | 5.1 N.m at 400 V three phase 5.4 N.m at 208 V three phase 4.1 N.m at 480 V three phase |
| Nominal speed | 1900 rpm at 208 V three phase 3800 rpm at 400 V three phase 4700 rpm at 480 V three phase |
| Maximum current Irms | 17.5 A at 208 V, three phase 17.5 A at 400 V, three phase |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

17.5 A at 480 V, three phase

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|---------------------------------------|---|
| Product compatibility | Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 19 mm |
| Shaft length | 40 mm |
| Feedback type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 32768 points/turn |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 100 mm |
| Electrical connection | Printed circuit board connector |
| Torque constant | 1.28 N.m/A at 20 °C |
| Back emf constant | 84.52 V/krpm at 20 °C |
| Number of motor poles | 10 |
| Rotor inertia | 6.28 kg.cm ² |
| Stator resistance | 2.347 Ohm at 20 °C |
| Stator inductance | 9.79 mH at 20 °C |
| Stator electrical time constant | 4.17 ms at 20 °C |
| Maximum radial force Fr | 990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 273 mm |
| Number of motor stacks | 2 |
| 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 |
| Distance shaft shoulder-flange | 3.5 mm |

Environment

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|-------------------------|------------------------------|
| IP degree of protection | Shaft: IP54 Housing: IP65 |
|-------------------------|------------------------------|

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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