



## Main

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

## Complementary

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Maximum mechanical speed  | 8000 rpm                                                                |
| [Us] rated supply voltage | 115...230 V - 15...10 %                                                 |
| Supply voltage limits     | 100...240 V                                                             |
| Network number of phases  | Single phase                                                            |
| Supply frequency          | 50/60 Hz - 5...5 %                                                      |
| Network frequency limits  | 47.5...63 Hz                                                            |
| EMC filter                | Integrated                                                              |
| Continuous output current | 3.5 A at 8 kHz                                                          |
| Output current 3s peak    | 10.5 A at 230 V for 3 s                                                 |
| Continuous stall current  | 3.5 A                                                                   |
| Continuous stall torque   | 3.4 N.m at 115...230 V single phase                                     |
| Peak stall torque         | 8.6 N.m at 115 V single phase<br>8.6 N.m at 230 V single phase          |
| Nominal output power      | 700 W at 230 V single phase<br>400 W at 115 V single phase              |
| Nominal torque            | 2.9 N.m at 115 V single phase<br>2.2 N.m at 230 V single phase          |
| Nominal speed             | 3200 rpm at 230 V single phase<br>1400 rpm at 115 V single phase        |
| Maximum current Irms      | 17.8 A at 115 V, single phase<br>17.8 A at 230 V, single phase          |
| Product compatibility     | Drive control unit LXM32i CANopen<br>Drive control unit LXM32i EtherCAT |
| Shaft end                 | Keyed                                                                   |

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Second shaft                          | Without second shaft end                                                                                                   |
| Shaft diameter                        | 14 mm                                                                                                                      |
| Shaft length                          | 30 mm                                                                                                                      |
| Key width                             | 5 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                     | 70 mm                                                                                                                      |
| Electrical connection                 | Printed circuit board connector                                                                                            |
| Torque constant                       | 0.81 N.m/A at 20 °C                                                                                                        |
| Back emf constant                     | 54.44 V/krpm at 20 °C                                                                                                      |
| Number of motor poles                 | 10                                                                                                                         |
| Rotor inertia                         | 1.67 kg.cm <sup>2</sup>                                                                                                    |
| Stator resistance                     | 2.58 Ohm at 20 °C                                                                                                          |
| Stator inductance                     | 2.28 mH at 20 °C                                                                                                           |
| Stator electrical time constant       | 0.88 ms at 20 °C                                                                                                           |
| Maximum radial force Fr               | 730 N at 1000 rpm<br>580 N at 2000 rpm<br>510 N at 3000 rpm<br>460 N at 4000 rpm<br>430 N at 5000 rpm<br>400 N at 6000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                                                                   |
| Type of cooling                       | Natural convection                                                                                                         |
| Length                                | 300 mm                                                                                                                     |
| Number of motor stacks                | 3                                                                                                                          |
| Centring collar diameter              | 60 mm                                                                                                                      |
| Centring collar depth                 | 2.5 mm                                                                                                                     |
| Number of mounting holes              | 4                                                                                                                          |
| Mounting holes diameter               | 5.5 mm                                                                                                                     |
| Circle diameter of the mounting holes | 75...82 mm                                                                                                                 |
| Distance shaft shoulder-flange        | 2.5 mm                                                                                                                     |

## Environment

|                         |                              |
|-------------------------|------------------------------|
| IP degree of protection | Shaft: IP54<br>Housing: IP65 |
|-------------------------|------------------------------|

## Offer Sustainability

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

## Contractual warranty

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