



## Main

|                           |                              |
|---------------------------|------------------------------|
| 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<br>14 N.m at 400 V three phase<br>14 N.m at 480 V three phase       |
| Nominal output power      | 1000 W at 208 V three phase<br>1900 W at 400 V three phase<br>1900 W at 480 V three phase       |
| Nominal torque            | 5.1 N.m at 400 V three phase<br>5.4 N.m at 208 V three phase<br>4.1 N.m at 480 V three phase    |
| Nominal speed             | 1900 rpm at 208 V three phase<br>3800 rpm at 400 V three phase<br>4700 rpm at 480 V three phase |
| Maximum current Irms      | 17.5 A at 208 V, three phase<br>17.5 A at 400 V, three phase                                    |

17.5 A at 480 V, three phase

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Product compatibility                 | Drive control unit LXM32i CANopen<br>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 multiturn SinCos Hiperface                                                                   |
| Speed feedback resolution             | 131072 points/turn x 4096 turns                                                                       |
| 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 <sup>2</sup>                                                                               |
| 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<br>790 N at 2000 rpm<br>690 N at 3000 rpm<br>620 N at 4000 rpm<br>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

|                         |                              |
|-------------------------|------------------------------|
| 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 |
|----------|-----------|