



## 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 | 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 | 2 A at 8 kHz                                                                                    |
| Output current 3s peak    | 6 A at 400 V for 3 s                                                                            |
| Continuous stall current  | 2 A                                                                                             |
| Continuous stall torque   | 3.4 N.m at 208...480 V three phase                                                              |
| Peak stall torque         | 8.6 N.m at 208 V three phase<br>8.6 N.m at 400 V three phase<br>8.6 N.m at 480 V three phase    |
| Nominal output power      | 900 W at 400 V three phase<br>900 W at 480 V three phase<br>450 W at 208 V three phase          |
| Nominal torque            | 2.9 N.m at 208 V three phase<br>2.7 N.m at 400 V three phase<br>2.3 N.m at 480 V three phase    |
| Nominal speed             | 3300 rpm at 400 V three phase<br>1600 rpm at 208 V three phase<br>3900 rpm at 480 V three phase |
| Maximum current Irms      | 12.5 A at 400 V, three phase<br>12.5 A at 480 V, three phase                                    |

12.5 A at 208 V, three 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             | 131072 points/turn                                                                                                         |
| Holding brake                         | Without                                                                                                                    |
| Mounting support                      | International standard flange                                                                                              |
| Motor flange size                     | 70 mm                                                                                                                      |
| Electrical connection                 | Printed circuit board connector                                                                                            |
| Torque constant                       | 1.41 N.m/A at 20 °C                                                                                                        |
| Back emf constant                     | 95.39 V/krpm at 20 °C                                                                                                      |
| Number of motor poles                 | 10                                                                                                                         |
| Rotor inertia                         | 1.67 kg.cm <sup>2</sup>                                                                                                    |
| Stator resistance                     | 7.99 Ohm at 20 °C                                                                                                          |
| Stator inductance                     | 25.6 mH at 20 °C                                                                                                           |
| Stator electrical time constant       | 3.2 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 | 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 |
|----------|-----------|