



## 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  |
| Phase                     | Three phase  |
| Supply frequency          | 50/60 Hz - 5...5 %   |
| Network frequency limits  | 47.5...63 Hz   |
| EMC filter                | Integrated   |
| Continuous output current | 4 A 8 kHz  |
| Output current 3s peak    | 12 A 400 V 3 s   |
| Continuous stall current  | 4 A  |
| Continuous stall torque   | 53.10 lbf.in (6 N.m) 208...480 V three phase   |
| Peak stall torque         | 123.91 Lbf.In (14 N.m) 208 V three phase<br>123.91 Lbf.In (14 N.m) 400 V three phase<br>123.91 lbf.in (14 N.m) 480 V three phase |
| Nominal output power      | 1000 W 208 V three phase<br>1900 W 400 V three phase<br>1900 W 480 V three phase   |
| Nominal torque            | 45.14 Lbf.In (5.1 N.m) 400 V three phase<br>47.79 Lbf.In (5.4 N.m) 208 V three phase<br>36.29 lbf.in (4.1 N.m) 480 V three phase |
| Nominal speed             | 1900 rpm 208 V three phase<br>3800 rpm 400 V three phase<br>4700 rpm 480 V three phase   |
| Maximum current Irms      | 17.5 A 208 V, three phase<br>17.5 A 400 V, three phase<br>17.5 A 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            | 0.75 in (19 mm)  |
| Shaft length              | 1.57 in (40 mm)  |
| Feedback type             | Absolute single turn SinCos Hiperface  |
| Speed feedback resolution | 32768 points/turn  |
| Holding brake             | With   |
| Holding torque            | 48.68 lbf.in (5.5 N.m) holding brake   |
| Mounting Support          | International standard flange  |

|                                       |  |
|---------------------------------------|--|
| Motor flange size                     | 3.94 in (100 mm)   |
| Electrical Connection                 | Printed circuit board connector  |
| Torque constant                       | 1.28 N.m/A 68 °F (20 °C)   |
| Back emf constant                     | 84.52 V/krpm 68 °F (20 °C)   |
| Number of motor poles                 | 10   |
| Rotor inertia                         | 6.77 kg.cm <sup>2</sup>  |
| Stator resistance                     | 2.347 Ohm 68 °F (20 °C)  |
| Stator inductance                     | 9.79 mH 68 °F (20 °C)  |
| Stator electrical time constant       | 4.17 ms 68 °F (20 °C)  |
| Maximum radial force Fr               | 990 N 1000 rpm<br>790 N 2000 rpm<br>690 N 3000 rpm<br>620 N 4000 rpm<br>580 N 5000 rpm |
| Maximum axial force Fa                | 0.2 x Fr   |
| Brake pull-in power                   | 8 W  |
| Type of cooling                       | Natural convection   |
| Length                                | 11.10 in (282 mm)  |
| Number of motor stacks                | 2  |
| Centring collar diameter              | 3.74 in (95 mm)  |
| Centring collar depth                 | 0.14 in (3.5 mm)   |
| Number of mounting holes              | 4  |
| Mounting holes diameter               | 0.35 in (9 mm)   |
| Circle diameter of the mounting holes | 4.53 in (115 mm)   |
| Distance shaft shoulder-flange        | 0.14 in (3.5 mm)   |

## Environment

|                         |                            |
|-------------------------|----------------------------|
| IP Degree of Protection | Shaft IP54<br>Housing IP65 |
|-------------------------|----------------------------|

## Ordering and shipping details

|                   |                                   |
|-------------------|-----------------------------------|
| Category          | 18287-LEXIUM 32 INTEGRATED DRIVES |
| Discount Schedule | PC56                              |
| GTIN              | 3606485376974                     |
| Returnability     | No                                |
| Country of origin | DE                                |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Number of Units in Package 1 | 1                         |
| Package 1 Height             | 24.41 in (62.0 cm)        |
| Package 1 Width              | 7.87 in (20.0 cm)         |
| Package 1 Length             | 23.23 in (59.0 cm)        |
| Package 1 Weight             | 12.33 lb(US) (5.594 kg)   |
| Unit Type of Package 2       | P06                       |
| Number of Units in Package 2 | 8                         |
| Package 2 Height             | 30.31 in (77.0 cm)        |
| Package 2 Width              | 31.50 in (80.0 cm)        |
| Package 2 Length             | 23.62 in (60.0 cm)        |
| Package 2 Weight             | 117.40 lb(US) (53.252 kg) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</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.  |
| PVC free                   | Yes   |

## Contractual warranty

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

External Dimensions

With Standard Braking Resistor

Mounting type A



- (1) Module for supply voltage
- (2) I/O module
- (3) Standard braking resistor

Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 337 |

Dimensions in in.

| W    | H    | L     |
|------|------|-------|
| 5,22 | 8,54 | 13,27 |

Mounting type B



- (1) Module for supply voltage
- (2) I/O module
- (3) Standard braking resistor

Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 168 | 386 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 6,61 | 15,2 |

### With External Braking Resistor

Mounting type C



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 349 |

Dimensions in in.

| W    | H    | L     |
|------|------|-------|
| 5,22 | 8,54 | 13,74 |

Mounting type D



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 180 | 386 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 7,09 | 15,2 |

Mounting type E



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 376 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 8,54 | 14,8 |

Mounting type F



- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

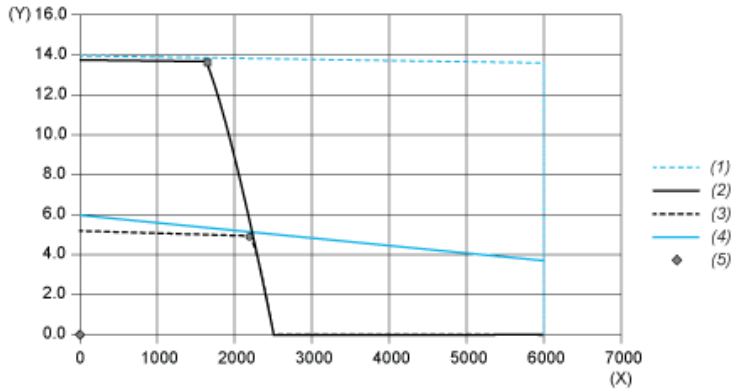
| W     | H     | L   |
|-------|-------|-----|
| 132,6 | 206,5 | 386 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 8,13 | 15,2 |

Performance Curves

Torque/Speed Curves with 208 V Three Phases Supply Voltage

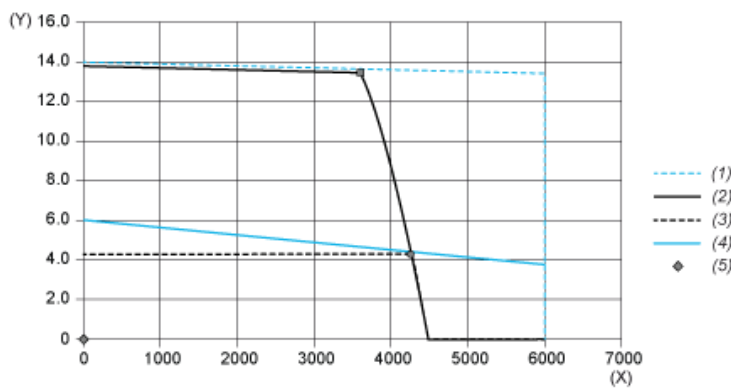


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

|                         |   | Power  | At Speed | With Torque |
|-------------------------|---|--------|----------|-------------|
| max. Peak Power         | ■ | 2499 W | 1740 rpm | 13.72 N.m   |
| max Cont. Power (Drive) | ● | 1109   | 2160 rpm | 4.90 N.m    |

Performance Curves

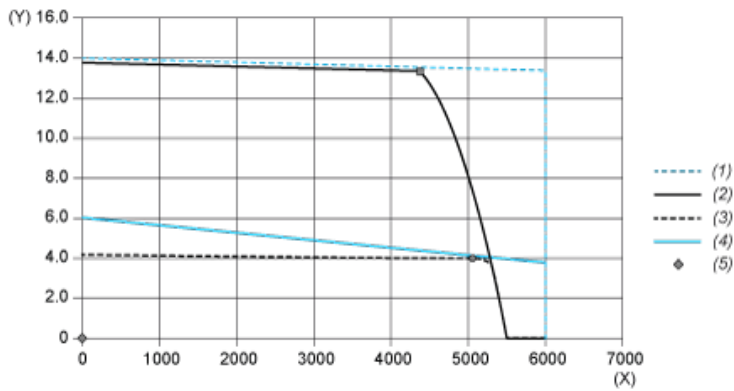
Torque/Speed Curves with 400 V Three Phases Supply Voltage



- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

|                         |   | Power  | At Speed | With Torque |
|-------------------------|---|--------|----------|-------------|
| max. Peak Power         | ■ | 5090 W | 3600 rpm | 13.50 N.m   |
| max Cont. Power (Drive) | ● | 1954 W | 4320 rpm | 4.32 N.m    |

Torque/Speed Curves with 480 V Three Phases Supply Voltage



- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

|                         |   | Power  | At Speed | With Torque |
|-------------------------|---|--------|----------|-------------|
| max. Peak Power         | ■ | 6117 W | 4380 rpm | 13.34 N.m   |
| max Cont. Power (Drive) | ● | 2080 W | 5040 rpm | 3.94 N.m    |