



Price\* : 2,069.22 USD



## 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                                                                         |

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|                                       |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
|                                       | 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 | IP65 |
|-------------------------|------|

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 18287 - LEXIUM 32 INTEGRATED DRIVES |
| Discount Schedule     | PC56                                |
| GTIN                  | 03606485377131                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 20.94 lb(US) (9.5 kg)               |
| Returnability         | No                                  |
| Country of origin     | DE                                  |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 9.84 in (25 cm)   |
| Package 1 width        | 7.32 in (18.6 cm) |
| Package 1 Length       | 21.65 in (55 cm)  |

## 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)<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.                                                                                                                                                                |
| PVC free                   | Yes                                                                                                                                                                                                                                                                                         |

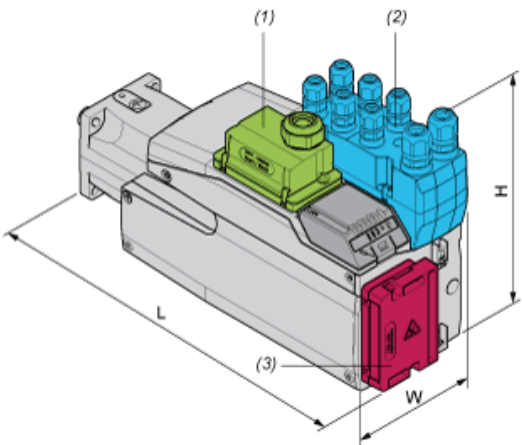
## Contractual warranty

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

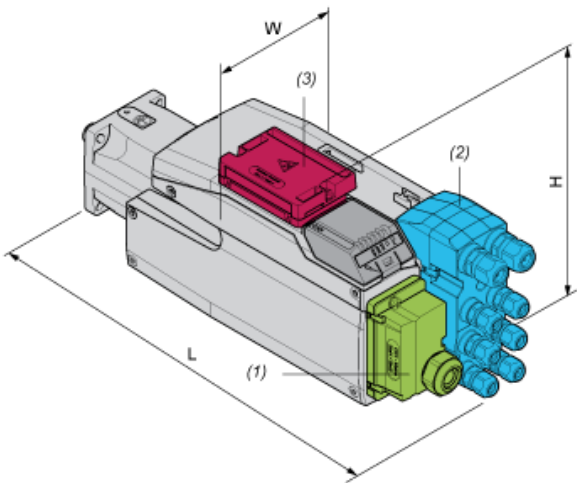
Dimensions in mm

| 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

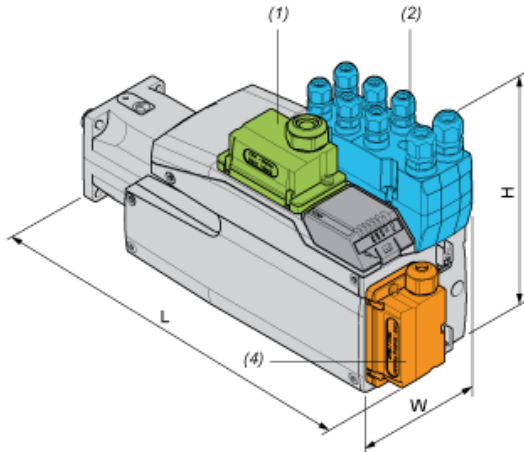
| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 168 | 386 |

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

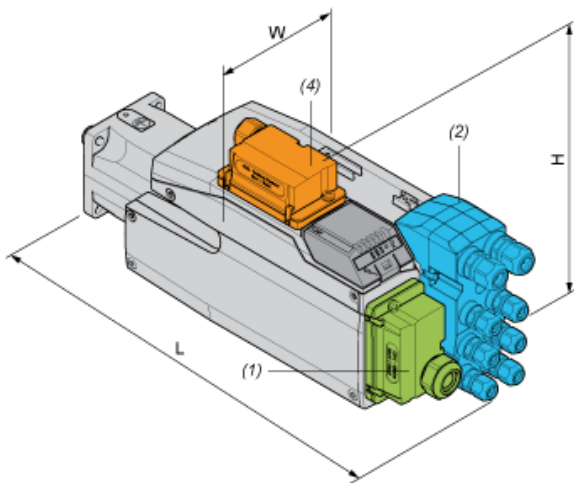
Dimensions in mm

| 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

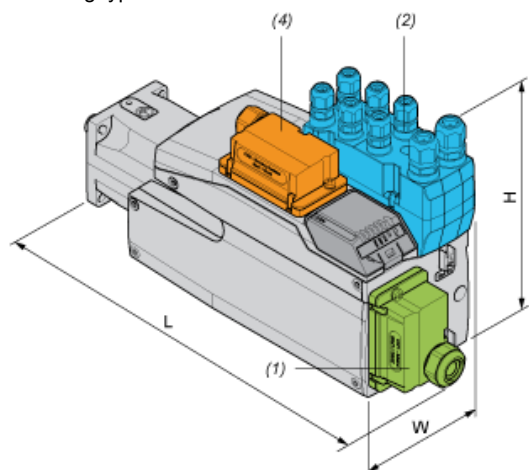
Dimensions in mm

| 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

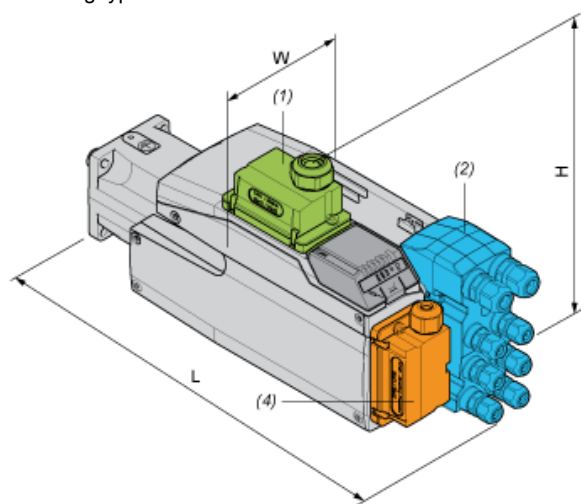
Dimensions in mm

| 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

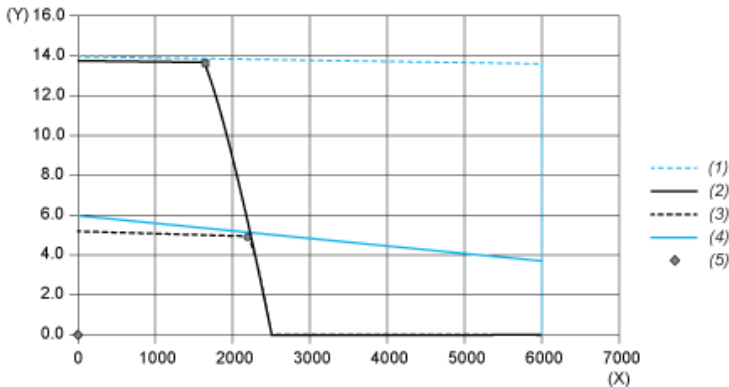
| W     | H     | L   |
|-------|-------|-----|
| 132,6 | 206,5 | 386 |

Dimensions in in.

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

Performance Curves

Torque/Speed Curves with 208 V Three Phases Supply Voltage

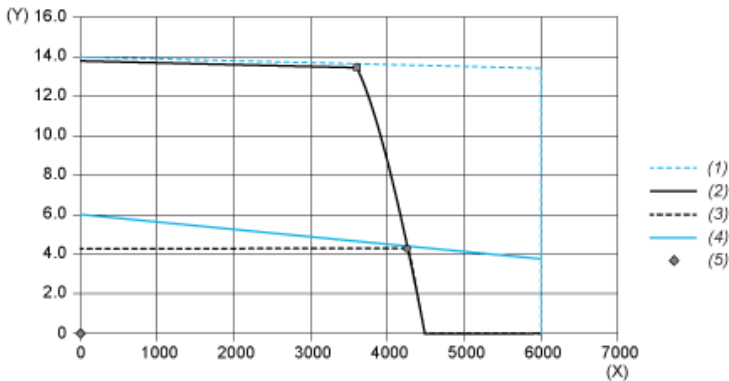


- (X) Speed (rpm)  
(Y) Torque (N.m)  
(1) Motor peak  
(2) Drive peak  
(3) Drive cont  
(4) Motor cont  
(5) Operating point

|                         |  | 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

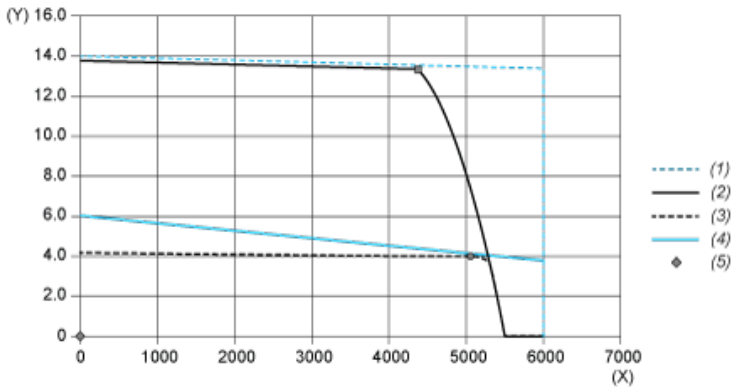


- (X) Speed (rpm)  
(Y) Torque (N.m)  
(1) Motor peak  
(2) Drive peak  
(3) Drive cont  
(4) Motor cont  
(5) Operating point

|                         |  | 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    |

Performance Curves

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    |