



## 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 | 115...230 V - 15...10 %                                                                    |
| Supply voltage limits     | 100...240 V                                                                                |
| Phase                     | Single phase                                                                               |
| Supply frequency          | 50/60 Hz - 5...5 %                                                                         |
| Network frequency limits  | 47.5...63 Hz                                                                               |
| EMC filter                | Integrated                                                                                 |
| Continuous output current | 6 A 8 kHz                                                                                  |
| Output current 3s peak    | 18 A 230 V 3 s                                                                             |
| Continuous stall current  | 6 A                                                                                        |
| Continuous stall torque   | 53.10 lbf.in (6 N.m) 115...230 V single phase                                              |
| Peak stall torque         | 128.34 Lbf.in (14.5 N.m) 115 V single phase<br>128.34 lbf.in (14.5 N.m) 230 V single phase |
| Nominal output power      | 750 W 115 V single phase<br>1300 W 230 V single phase                                      |
| Nominal torque            | 47.79 Lbf.in (5.4 N.m) 115 V single phase<br>38.94 lbf.in (4.4 N.m) 230 V single phase     |
| Nominal speed             | 1400 rpm 115 V single phase<br>3000 rpm 230 V single phase                                 |
| Maximum current Irms      | 30 A 115 V, single phase<br>30 A 230 V, single 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 multiturn SinCos Hiperface                                                        |
| Speed feedback resolution | 32768 points/turn x 4096 turns                                                             |
| Holding brake             | Without                                                                                    |
| Mounting support          | International standard flange                                                              |
| Motor flange size         | 3.94 in (100 mm)                                                                           |
| Electrical connection     | Printed circuit board connector                                                            |
| Torque constant           | 0.89 N.m/A 68 °F (20 °C)                                                                   |
| Back emf constant         | 58.5 V/krpm 68 °F (20 °C)                                                                  |
| Number of motor poles     | 10                                                                                         |

|                                       |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
| Rotor inertia                         | 6.28 kg.cm <sup>2</sup>                                                                |
| Stator resistance                     | 1.08 Ohm 68 °F (20 °C)                                                                 |
| Stator inductance                     | 4.7 mH 68 °F (20 °C)                                                                   |
| Stator electrical time constant       | 4.35 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                                                                               |
| Type of cooling                       | Natural convection                                                                     |
| Length                                | 10.75 in (273 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                  | 03606485377469                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 21 lb(US) (9.53 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                                                                                                        |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <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. |

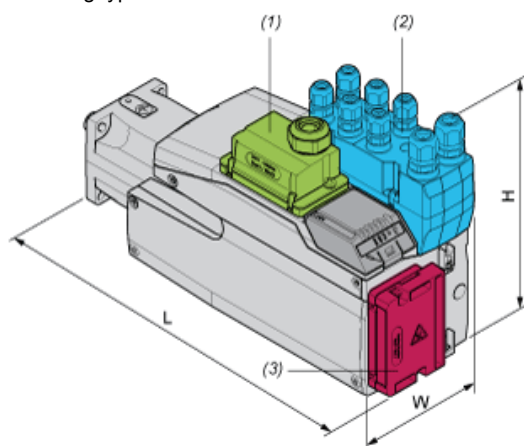
## Contractual warranty

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

## External Dimensions

### With Standard Braking Resistor

Mounting type A



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

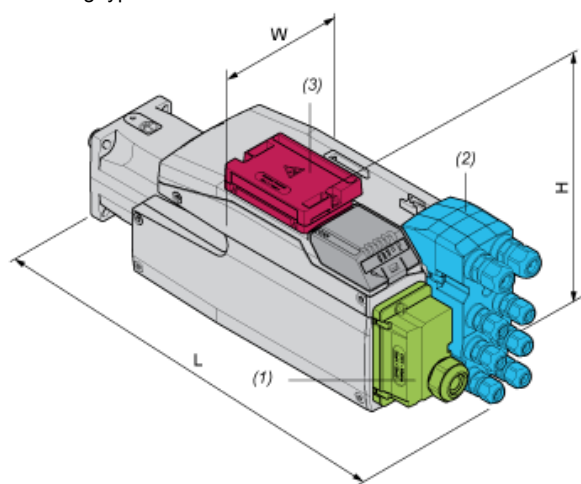
Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 294 |

Dimensions in in.

| W    | H    | L     |
|------|------|-------|
| 5,22 | 8,54 | 11,57 |

Mounting type B



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

Dimensions in mm

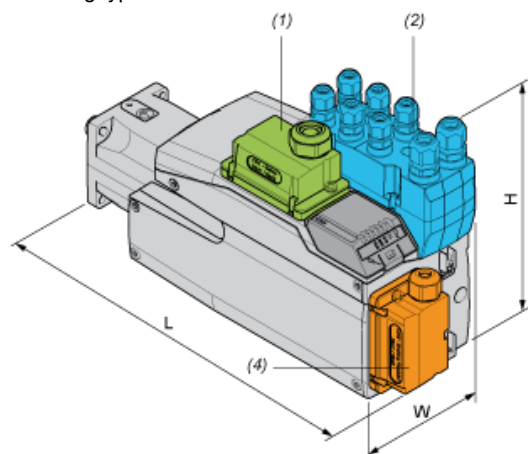
| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 168 | 343 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 6,61 | 13,5 |

## With External Braking Resistor

Mounting type C



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

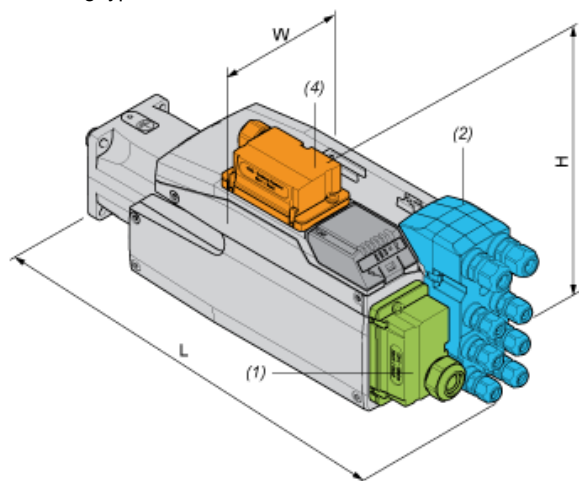
Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 306 |

Dimensions in in.

| W    | H    | L     |
|------|------|-------|
| 5,22 | 8,54 | 12,05 |

Mounting type D



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

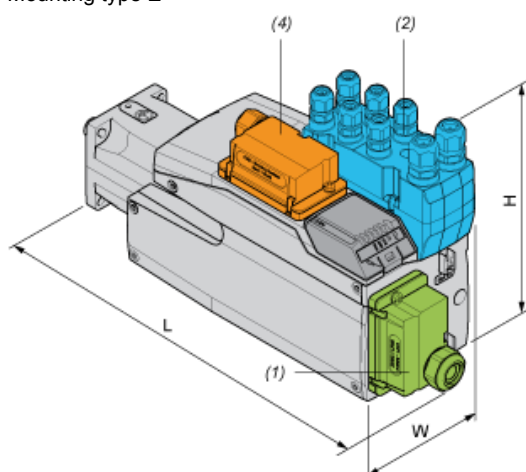
Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 180 | 343 |

Dimensions in in.

| W    | H    | L    |
|------|------|------|
| 5,22 | 7,09 | 13,5 |

# Mounting type E



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

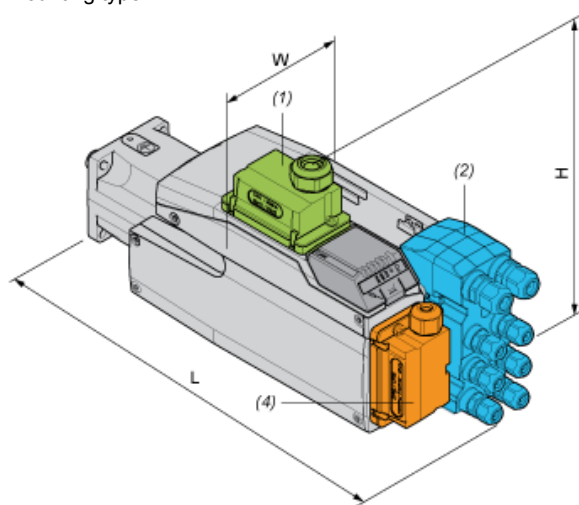
Dimensions in mm

| W     | H   | L   |
|-------|-----|-----|
| 132,6 | 217 | 333 |

Dimensions in in.

| W    | H    | L     |
|------|------|-------|
| 5,22 | 8,54 | 13,11 |

# Mounting type F



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

Dimensions in mm

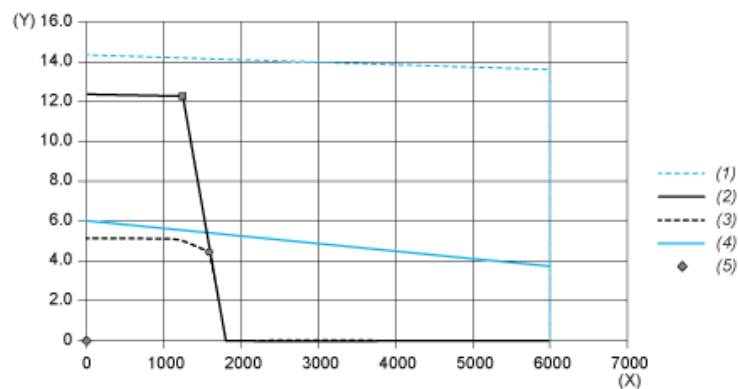
| W     | H     | L   |
|-------|-------|-----|
| 132,6 | 206,5 | 343 |

Dimensions in in.

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

## Performance Curves

### Torque/Speed Curves with 115 V Single Phase Supply Voltage

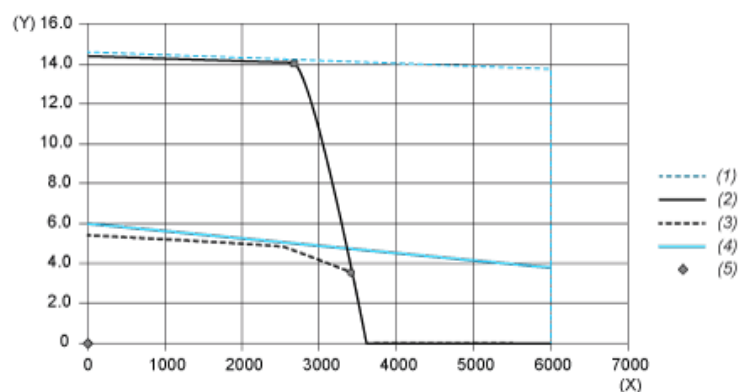


- (X) Speed (rpm)  
(Y) Torque (N.m)  
(1) Motor peak  
(2) Drive peak  
(3) Drive cont  
(4) Motor cont  
(5) Operating point

|                         |   | Power  | At Speed | With Torque |
|-------------------------|---|--------|----------|-------------|
| max. Peak Power         | ■ | 1721 W | 1380 rpm | 11.91 N.m   |
| max Cont. Power (Drive) | ● | 757 W  | 1620 rpm | 4.46 N.m    |

## Performance Curves

### Torque/Speed Curves with 230 V Single Phase 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         | ■ | 4069 W | 2760 rpm | 14.08 N.m   |
| max Cont. Power (Drive) | ● | 1257 W | 3420 rpm | 3.51 N.m    |