



## Main

Range compatibility	Lexium 32i
Product or component type	Servo motor with power stage
Device short name	BMI

## Complementary

Maximum mechanical speed	6000
[Us] rated supply voltage	115...230 V (- 15...10 %)
Supply voltage limits	100...240 V
Network number of phases	Single phase
Supply frequency	50/60 Hz (- 5...5 %)
Network frequency limits	47.5...63 Hz
EMC filter	Integrated
Continuous output current	6 A at 8 kHz
Output current 3s peak	18 A at 230 V for 3 s
Continuous stall current	6 A
Continuous stall torque	6 N.m at 115...230 V, single phase
Peak stall torque	14.5 N.m at 230 V, single phase 14.5 N.m at 115 V, single phase
Nominal output power	1300 W at 230 V, single phase 750 W at 115 V, single phase
Nominal torque	4.4 N.m at 230 V, single phase 5.4 N.m at 115 V, single phase
Nominal speed	3000 rpm at 230 V, single phase 1400 rpm at 115 V, single phase
Maximum current Irms	30 A at 230 V, single phase 30 A at 115 V, single phase
Product compatibility	LXM32i drive control unit (EtherCAT) LXM32i drive control unit (CANopen)
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Printed circuit board connector
Torque constant	0.89 N.m/A at 20 °C
Back emf constant	58.5 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	6.28 kg.cm²

Stator resistance	1.08 Ohm at 20 °C
Stator inductance	4.7 mH at 20 °C
Stator electrical time constant	4.35 ms at 20 °C
Maximum radial force Fr	580 N at 5000 rpm 620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 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	IP65 for housing IP54 for shaft
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## External Dimensions

### With Standard Braking Resistor

Mounting type A



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

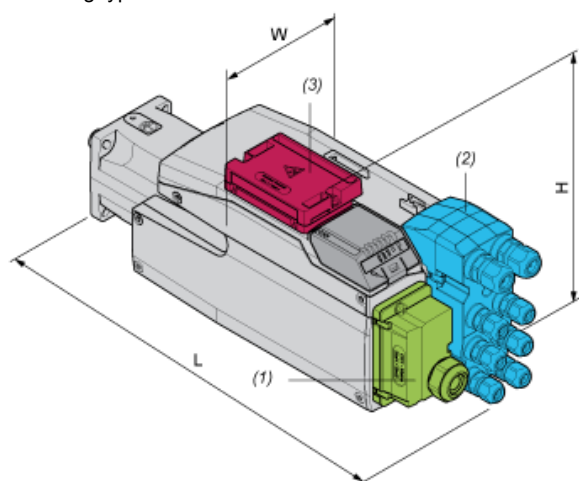
Dimensions in mm

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

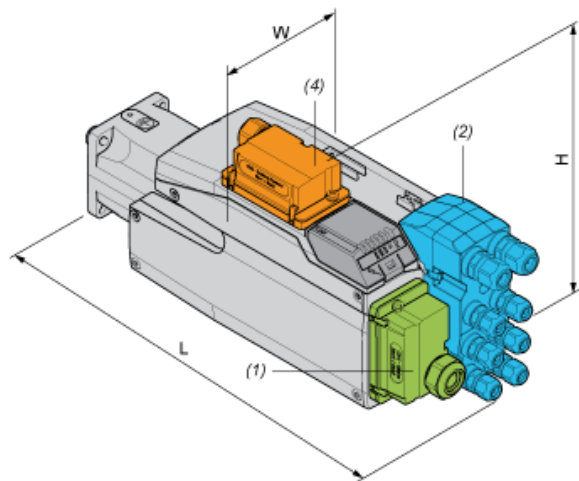
Dimensions in mm

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