



## Main

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

## Complementary

Maximum mechanical speed	6000 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	4 A at 8 kHz
Output current 3s peak	12 A at 400 V for 3 s
Continuous stall current	4 A
Continuous stall torque	8.5 N.m at 208...480 V three phase
Peak stall torque	19.2 N.M at 400 V three phase 19.2 N.M at 480 V three phase 19.2 N.m at 208 V three phase
Nominal output power	1000 W at 208 V three phase 2000 W at 400 V three phase 2100 W at 480 V three phase
Nominal torque	7.2 N.M at 208 V three phase 6.8 N.M at 400 V three phase 5.6 N.m at 480 V three phase
Nominal speed	1500 rpm at 208 V three phase 3000 rpm at 400 V three phase 3700 rpm at 480 V three phase
Maximum current Irms	26.7 A at 208 V, three phase 26.7 A at 400 V, three phase 26.7 A at 480 V, three phase
Product compatibility	Drive control unit LXM32i CANopen[RETURN]Drive control unit LXM32i EtherCAT
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Key width	6 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	100 mm
Electrical connection	Printed circuit board connector
Torque constant	1.7 N.m/A at 20 °C
Back emf constant	112 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	9.37 kg.cm <sup>2</sup>
Stator resistance	2.31 Ohm at 20 °C
Stator inductance	11.43 mH at 20 °C
Stator electrical time constant	4.95 ms at 20 °C
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	299 mm
Number of motor stacks	3
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
-------------------------	------

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.0 cm
Package 1 Width	18.6 cm
Package 1 Length	55.0 cm
Package 1 Weight	11.0 kg

## 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)
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

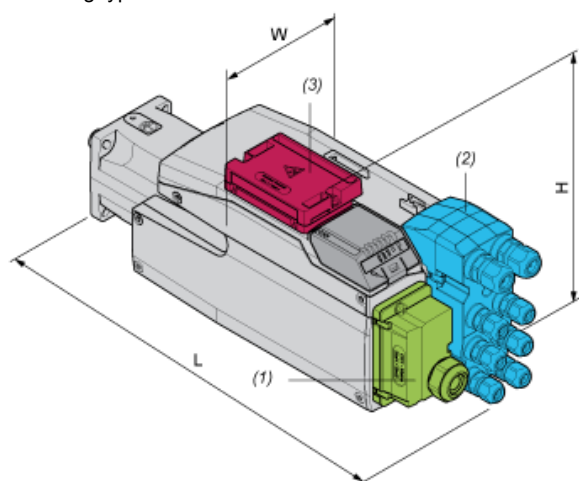
Dimensions in mm

W	H	L
132,6	217	320

Dimensions in in.

W	H	L
5,22	8,54	12,6

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	369

Dimensions in in.

W	H	L
5,22	6,61	14,53

## With External Braking Resistor

Mounting type C



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

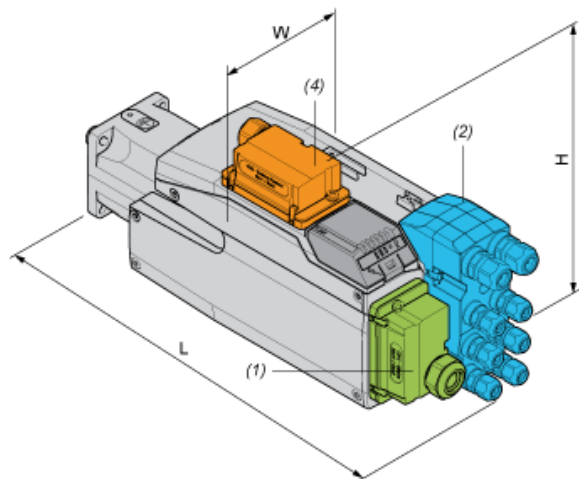
Dimensions in mm

W	H	L
132,6	217	332

Dimensions in in.

W	H	L
5,22	8,54	13,07

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	369

Dimensions in in.

W	H	L
5,22	7,09	14,53

## 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	359

Dimensions in in.

W	H	L
5,22	8,54	14,13

## Mounting type F



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

Dimensions in mm

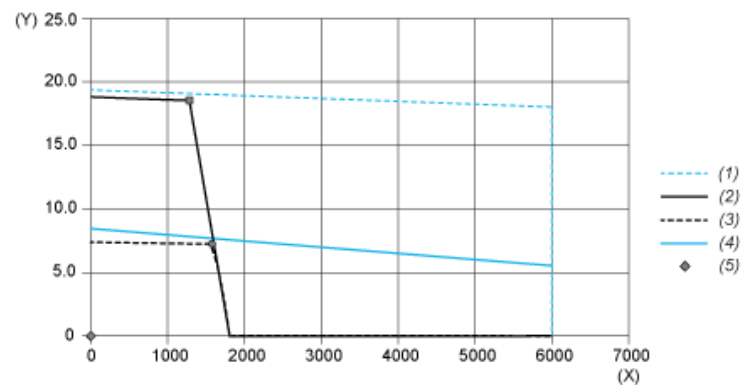
W	H	L
132,6	206,5	369

Dimensions in in.

W	H	L
5,22	8,13	14,53

## Performance Curves

### Torque/Speed Curves with 208 V Three Phases Supply Voltage

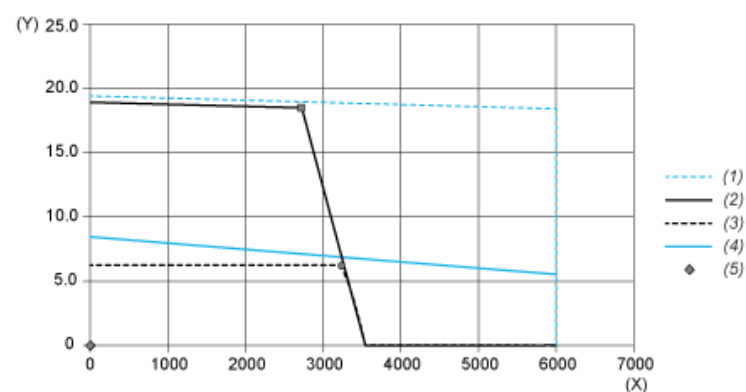


- (X) Speed (rpm)  
(Y) Torque (N.m)  
(1) Motor peak  
(2) Drive peak  
(3) Drive cont  
(4) Motor cont  
(5) Operating point

		Power	At Speed	With Torque
max. Peak Power	■	2675 W	1380 rpm	18.51 N.m
max Cont. Power (Drive)	●	1223 W	1620 rpm	7.21 N.m

## Performance Curves

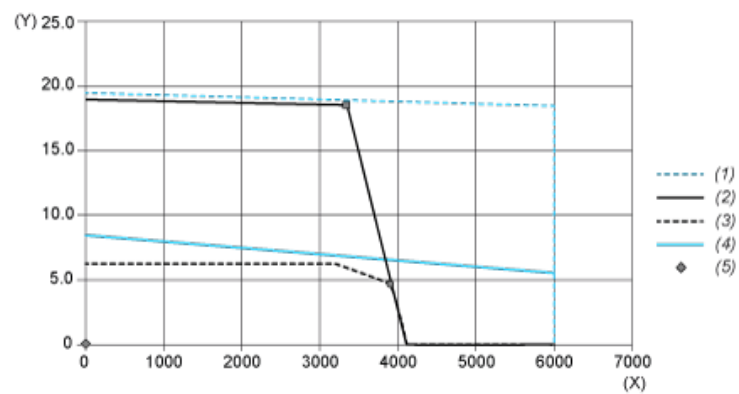
### Torque/Speed Curves with 400 V Three Phases Supply Voltage



- (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	■	5328 W	2760 rpm	18.44 N.m
max Cont. Power (Drive)	●	2096 W	3240 rpm	6.18 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	■	6454 W	3360 rpm	18.34 N.m
max Cont. Power (Drive)	●	1994 W	3960 rpm	4.81 N.m