



Main

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

Complementary

Maximum mechanical speed	8000
[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	3.5 A at 8 kHz
Output current 3s peak	10.5 A at 230 V for 3 s
Continuous stall current	3.5 A
Continuous stall torque	3.4 N.m at 115...230 V, single phase
Peak stall torque	8.6 N.m at 230 V, single phase 8.6 N.m at 115 V, single phase
Nominal output power	400 W at 115 V, single phase 700 W at 230 V, single phase
Nominal torque	2.2 N.m at 230 V, single phase 2.9 N.m at 115 V, single phase
Nominal speed	1400 rpm at 115 V, single phase 3200 rpm at 230 V, single phase
Maximum current Irms	17.8 A at 230 V, single phase 17.8 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	14 mm
Shaft length	30 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	32768 points/turn
Holding brake	With
Holding torque	3 N.m for holding brake
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Printed circuit board connector
Torque constant	0.81 N.m/A at 20 °C
Back emf constant	54.44 V/krpm at 20 °C
Number of motor poles	10

Rotor inertia	1.78 kg.cm ²
Stator resistance	2.58 Ohm at 20 °C
Stator inductance	2.28 mH at 20 °C
Stator electrical time constant	0.88 ms at 20 °C
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	5 W
Type of cooling	Natural convection
Length	339 mm
Number of motor stacks	3
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	75...82 mm
Distance shaft shoulder-flange	2.5 mm

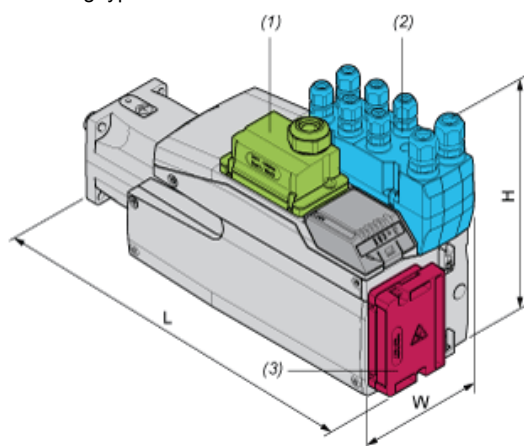
Environment

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

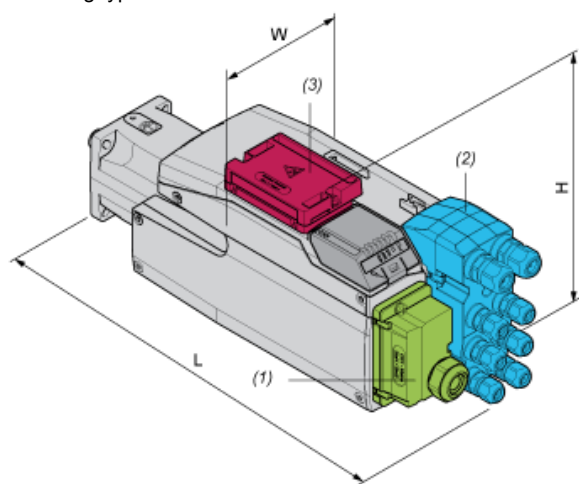
Dimensions in mm

W	H	L
99	187	360

Dimensions in in.

W	H	L
3,90	7,36	14,17

Mounting type B



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

Dimensions in mm

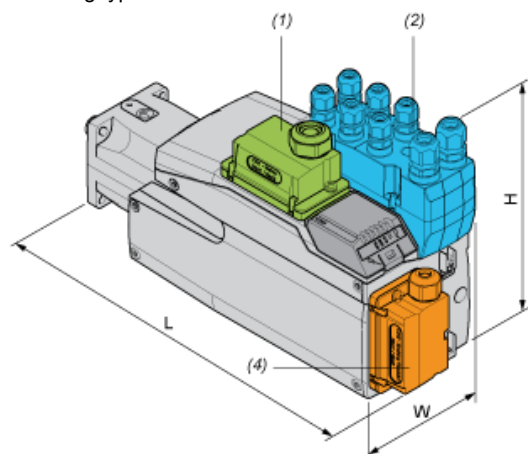
W	H	L
99	138,5	409

Dimensions in in.

W	H	L
3,90	5,45	16,1

With External Braking Resistor

Mounting type C



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

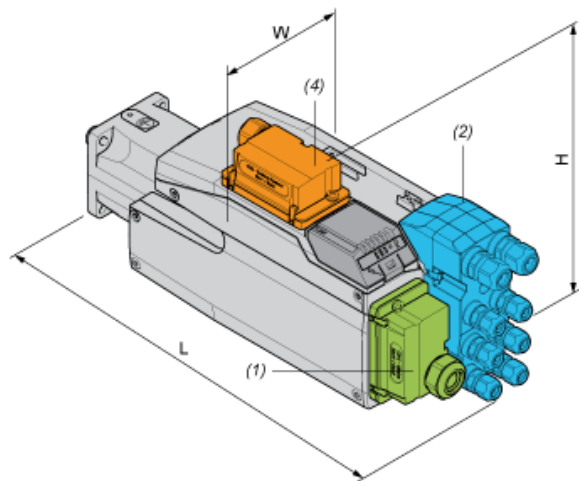
Dimensions in mm

W	H	L
99	187	372

Dimensions in in.

W	H	L
3,90	7,36	14,65

Mounting type D



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

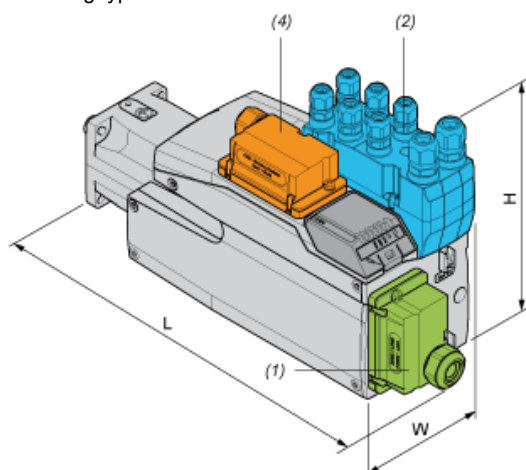
Dimensions in mm

W	H	L
99	160	409

Dimensions in in.

W	H	L
3,90	6,3	16,1

Mounting type E



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

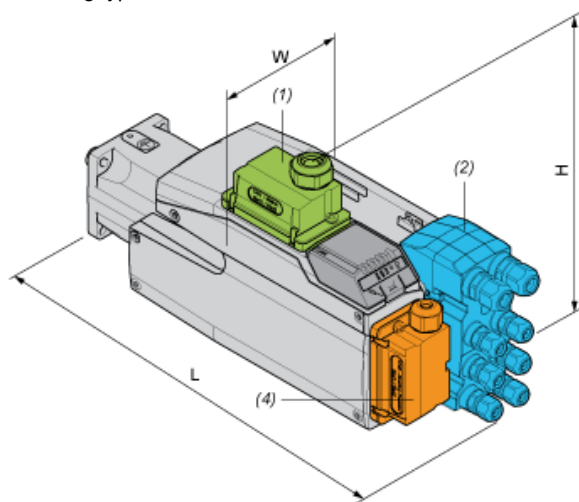
Dimensions in mm

W	H	L
99	187	399

Dimensions in in.

W	H	L
3,90	7,36	15,71

Mounting type F



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

Dimensions in mm

W	H	L
99	180	409

Dimensions in in.

W	H	L
3,90	7,09	16,1