



Main

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

Complementary

Maximum mechanical speed	8000 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	3.5 A 8 kHz
Output current 3s peak	10.5 A 230 V 3 s
Continuous stall current	3.5 A
Continuous stall torque	30.09 lbf.in (3.4 N.m) 115...230 V single phase
Peak stall torque	76.12 Lbf.in (8.6 N.m) 115 V single phase 76.12 lbf.in (8.6 N.m) 230 V single phase
Nominal output power	700 W 230 V single phase 400 W 115 V single phase
Nominal torque	25.67 Lbf.in (2.9 N.m) 115 V single phase 19.47 lbf.in (2.2 N.m) 230 V single phase
Nominal speed	3200 rpm 230 V single phase 1400 rpm 115 V single phase
Maximum current Irms	17.8 A 115 V, single phase 17.8 A 230 V, single phase
Product compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	0.55 in (14 mm)
Shaft length	1.18 in (30 mm)
Key width	0.20 in (5 mm)
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Motor flange size	2.76 in (70 mm)
Electrical connection	Printed circuit board connector
Torque constant	0.81 N.m/A 68 °F (20 °C)
Back emf constant	54.44 V/krpm 68 °F (20 °C)

Number of motor poles	10
Rotor inertia	1.67 kg.cm ²
Stator resistance	2.58 Ohm 68 °F (20 °C)
Stator inductance	2.28 mH 68 °F (20 °C)
Stator electrical time constant	0.88 ms 68 °F (20 °C)
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	11.81 in (300 mm)
Number of motor stacks	3
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.95...3.23 in (75...82 mm)
Distance shaft shoulder-flange	0.10 in (2.5 mm)

Environment

IP degree of protection	IP65
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Ordering and shipping details

Category	18287 - LEXIUM 32 INTEGRATED DRIVES
Discount Schedule	PC56
GTIN	03606485376868
Nbr. of units in pkg.	1
Package weight(Lbs)	14 lb(US) (6.35 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)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

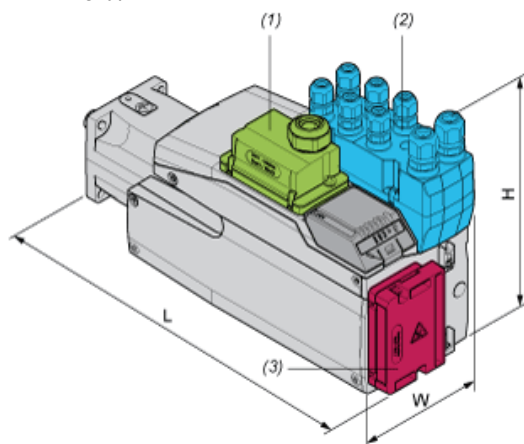
Contractual warranty

Warranty	18 months
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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

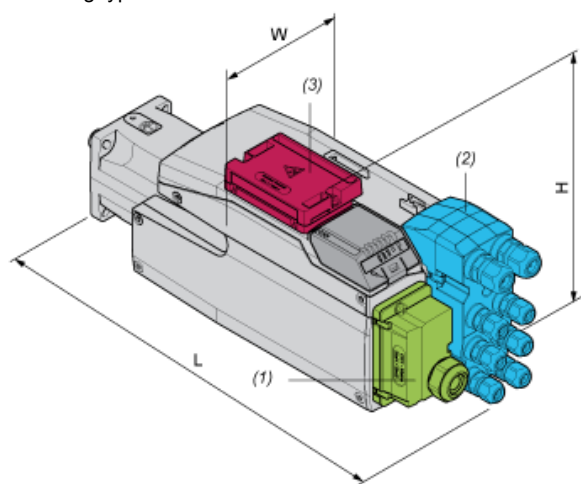
Dimensions in mm

W	H	L
99	187	321

Dimensions in in.

W	H	L
3,90	7,36	12,64

Mounting type B



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

Dimensions in mm

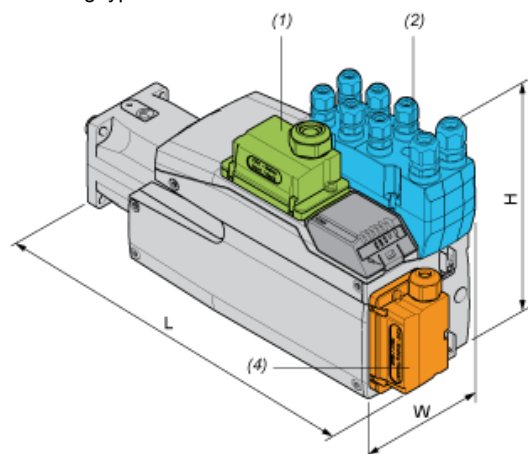
W	H	L
99	138,5	370

Dimensions in in.

W	H	L
3,90	5,45	14,57

With External Braking Resistor

Mounting type C



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

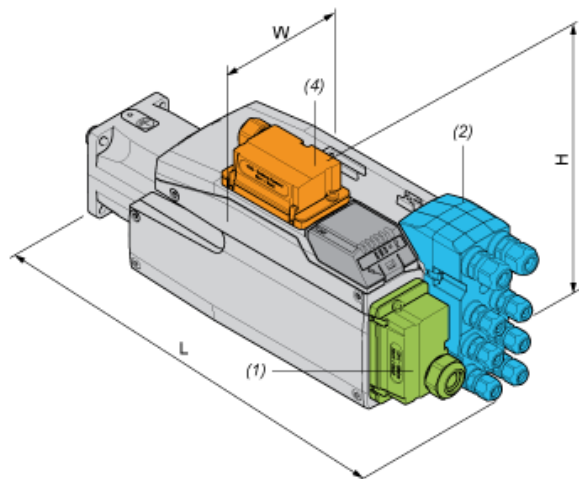
Dimensions in mm

W	H	L
99	187	333

Dimensions in in.

W	H	L
3,90	7,36	13,11

Mounting type D



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

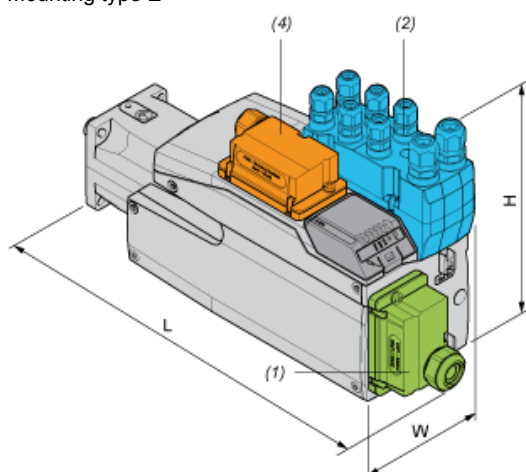
Dimensions in mm

W	H	L
99	160	370

Dimensions in in.

W	H	L
3,90	6,3	14,57

Mounting type E



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

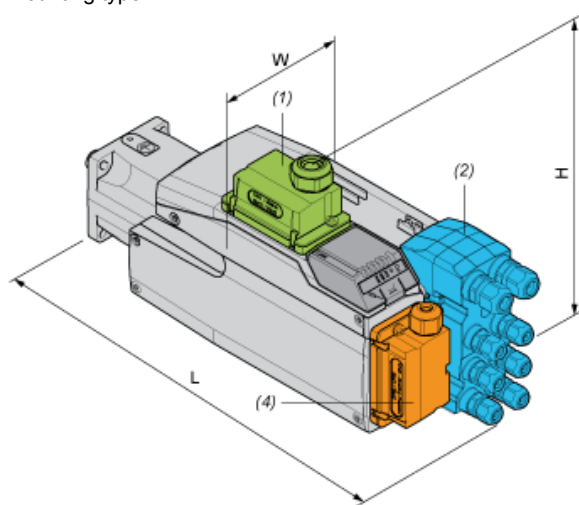
Dimensions in mm

W	H	L
99	187	360

Dimensions in in.

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

Mounting type F



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

Dimensions in mm

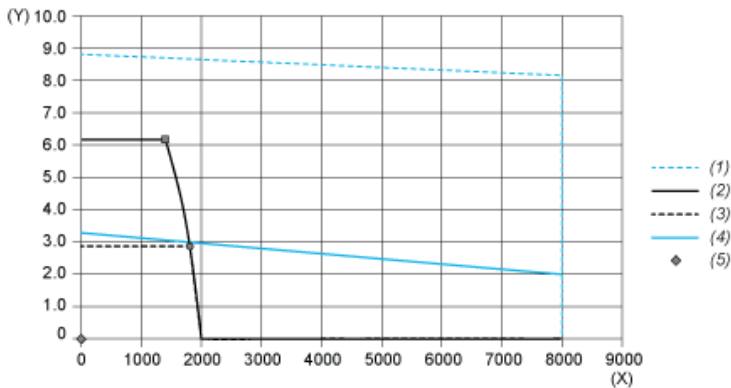
W	H	L
99	180	370

Dimensions in in.

W	H	L
3,90	7,09	14,57

Performance Curves

Torque/Speed Curves with 115 V Single Phase Supply Voltage

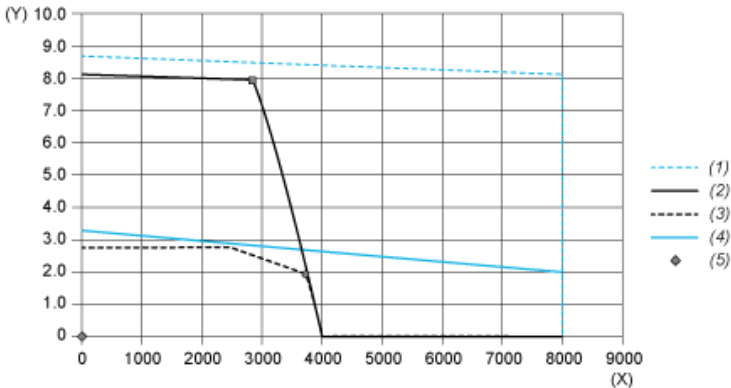


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power	■	889 W	1360 rpm	6.24 N.m
max Cont. Power (Drive)	●	501 W	1680 rpm	2.85 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	■	2314 W	2800 rpm	7.89 N.m
max Cont. Power (Drive)	●	738 W	3600 rpm	1.96 N.m