

servo motor BMI 3-phase - keyed IP65 multiturn - 32768 p/t x 4096 t

BMI1002P37A

Discontinued on: Nov 18, 2020

! Discontinued

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	208480 V - 1510 %	
Supply Voltage Limits	208480 V	
Network Number Of Phases	Three phase	
Supply Frequency	50/60 Hz - 55 %	
Network Frequency Limits	47.563 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	6 N.m at 208480 V three phase	
Peak Stall Torque	14 N.m at 208 V three phase 14 N.m at 400 V three phase 14 N.m at 480 V three phase	
Nominal Output Power	1000 W at 208 V three phase 1900 W at 400 V three phase 1900 W at 480 V three phase	
Nominal Torque	5.1 N.m at 400 V three phase 5.4 N.m at 208 V three phase 4.1 N.m at 480 V three phase	
Nominal Speed	1900 rpm at 208 V three phase 3800 rpm at 400 V three phase 4700 rpm at 480 V three phase	
Maximum Current Irms	17.5 A at 208 V, three phase 17.5 A at 400 V, three phase 17.5 A at 480 V, three phase	
Product Compatibility	Drive control unit LXM32i CANopen 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	1.28 N.m/A at 20 °C	
Back Emf Constant	84.52 V/krpm at 20 °C	
Number Of Motor Poles	10	
Rotor Inertia	6.28 kg.cm²	
Stator Resistance	2.347 Ohm at 20 °C	
Stator Inductance	9.79 mH at 20 °C	
Stator Electrical Time Constant	4.17 ms at 20 °C	
Maximum Radial Force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	25 cm
Package 1 Width	18.6 cm
Package 1 Length	55 cm
Package 1 Weight	9.5 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information

Vac



Pvc Free

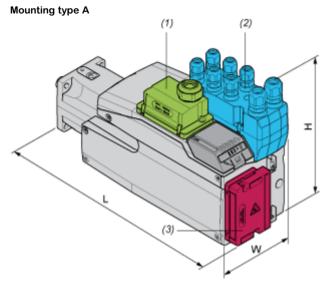
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	

Dimensions Drawings

External Dimensions

With Standard Braking Resistor



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

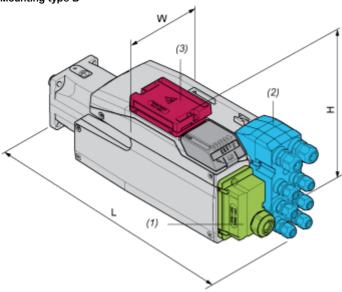
Dimensions in mm

W	Н	L
132,6	217	294

Dimensions in in

Difficitions in in.		
W	Н	L
5,22	8,54	11,57

Mounting type B



- (1) Module for supply voltage
- (2) I/O module

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(3) Standard braking resistor

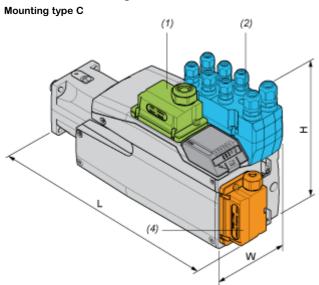
nsions	

W	Н	L
132,6	168	343

Dimensions in in.

W	Н	L
5,22	6,61	13,5

With External Braking Resistor



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

Dimensions in mm

W	Н	L
132,6	217	306

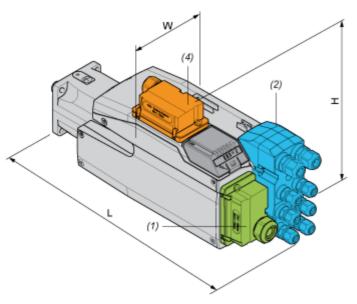
Dimensions in in.

D		
W	Н	L
5,22	8,54	12,05

Mounting type D

Product data sheet

BMI1002P37A



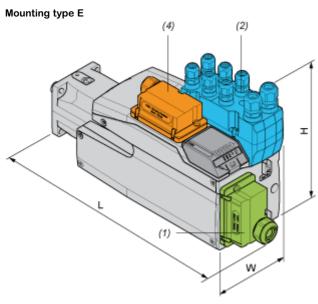
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

W	Н	L		
132,6	180	343		

Dimensions in in

Difficitional in in.					
W	Н	L			
5,22	7,09	13,5			



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

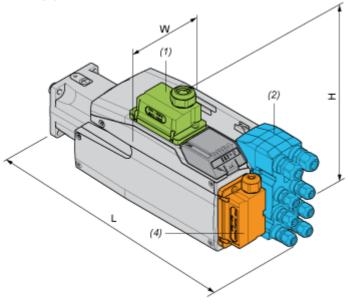
Dimensions in mm

W	Н	L		
132,6	217	333		

Dimensions in in.

W	Н	L	
5,22	8,54	13,11	

Mounting type F



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

Dimensions in mm

Difficitations in thirt					
W	Н	L			
132,6	206,5	343			

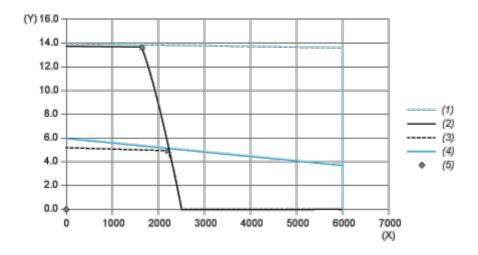
Dimensions in in

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

Performance Curves

Performance Curves

Torque/Speed Curves with 208 V Three Phases Supply Voltage

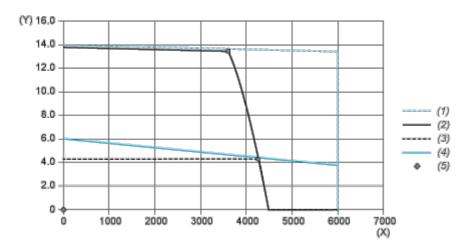


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		2499 W	1740 rpm	13.72 N.m
max Cont. Power (Drive)	•	1109	2160 rpm	4.90 N.m

Performance Curves

Torque/Speed Curves with 400 V Three Phases Supply Voltage

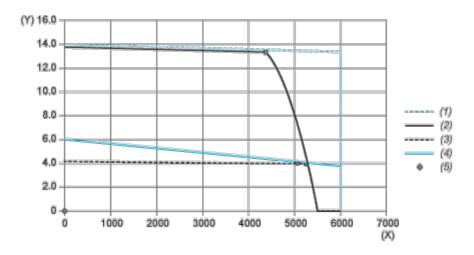


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		5090 W	3600 rpm	13.50 N.m
max Cont. Power (Drive)	•	1954 W	4320 rpm	4.32 N.m

Performance Curves

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		6117 W	4380 rpm	13.34 N.m
max Cont. Power (Drive)	•	2080 W	5040 rpm	3.94 N.m