Specifications





() Discontinued

servo motor BMI 3-phase - keyed IP65 single turn - 32768 p/t - brake

BMI1002P36F

() Discontinued on: Oct 9, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Compatibility	Lexium 32i	
Product Or Component Type	Servo motor with power stage	
Device Short Name	BMI	

Complementary

6000 rpm
208480 V - 1510 %
208480 V
Three phase
50/60 Hz - 55 %
47.563 Hz
Integrated
4 A 8 kHz
12 A 400 V 3 s
4 A
53.10 lbf.in (6 N.m) 208480 V three phase
123.91 lbf.in (14 N.m) 208 V three phase 123.91 lbf.in (14 N.m) 400 V three phase 123.91 lbf.in (14 N.m) 480 V three phase
1000 W 208 V three phase 1900 W 400 V three phase 1900 W 480 V three phase
45.14 lbf.in (5.1 N.m) 400 V three phase 47.79 lbf.in (5.4 N.m) 208 V three phase 36.29 lbf.in (4.1 N.m) 480 V three phase
1900 rpm 208 V three phase 3800 rpm 400 V three phase 4700 rpm 480 V three phase
17.5 A 208 V, three phase 17.5 A 400 V, three phase 17.5 A 480 V, three phase
Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT
Keyed
Without second shaft end
0.75 in (19 mm)

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Shaft Length	1.57 in (40 mm)
Key Width	0.24 in (6 mm)
Feedback Type	Absolute single turn SinCos Hiperface
Speed Feedback Resolution	32768 points/turn
Holding Brake	With
Holding Torque	48.68 lbf.in (5.5 N.m) holding brake
Mounting Support	International standard flange
Motor Flange Size	3.94 in (100 mm)
Electrical Connection	Printed circuit board connector
Torque Constant	1.28 N.m/A 68 °F (20 °C)
Back Emf Constant	84.52 V/krpm 68 °F (20 °C)
Number Of Motor Poles	10
Rotor Inertia	6.77 kg.cm ²
Stator Resistance	2.347 Ohm 68 °F (20 °C)
Stator Inductance	9.79 mH 68 °F (20 °C)
Stator Electrical Time Constant	4.17 ms 68 °F (20 °C)
Maximum Radial Force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	8 W
Type Of Cooling	Natural convection
Length	11.10 in (282 mm)
Number Of Motor Stacks	2
Centring Collar Diameter	3.74 in (95 mm)
Centring Collar Depth	0.14 in (3.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.35 in (9 mm)
Circle Diameter Of The Mounting Holes	4.53 in (115 mm)
Distance Shaft Shoulder-Flange	0.14 in (3.5 mm)

Environment

Ip Degree Of Protection

IP65

Ordering and shipping details

Category	US1PC5618287
Discount Schedule	PC56
Gtin	3606485377216
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.84 in (25.0 cm)
Package 1 Width	7.32 in (18.6 cm)
Package 1 Length	21.65 in (55.0 cm)
Package 1 Weight	20.94 lb(US) (9.5 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen

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.

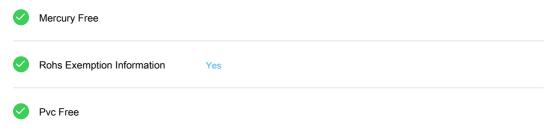
Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



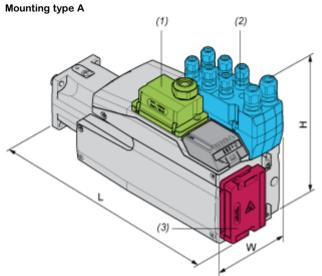
Certifications & Standards

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	

Dimensions Drawings

External Dimensions

With Standard Braking Resistor



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

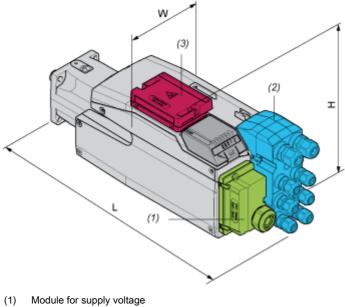
Dimensions in mm

W	Н	L
132,6	217	337

Dimensions in in.

W	Н	L
5,22	8,54	13,27

Mounting type B



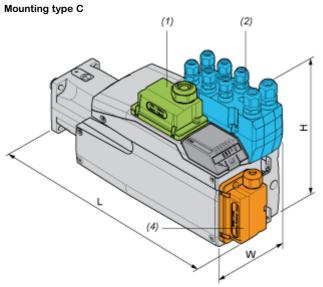
(2) I/O module

(3) Standard braking resistor

Dimensions in mm		
W	Н	L
132,6	168	386

Dimensions in in.			
W	Н	L	
5,22	6,61	15,2	

With External Braking Resistor



(1) Module for supply voltage

- (2) I/O module
- (4) External braking resistor

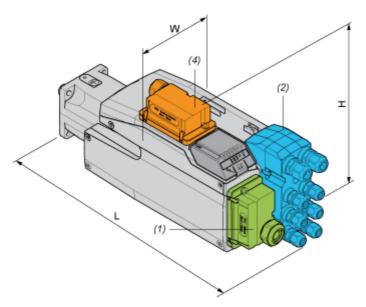
Dimensions in mm

W	Н	L
132,6	217	349

Dimensions in in.

W	Н	L
5,22	8,54	13,74

Mounting type D



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

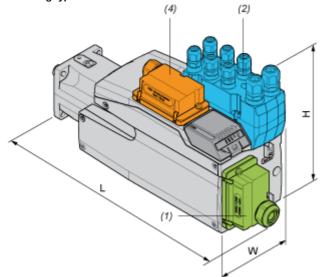
	Dimen	sions	in	mm
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W	Н	L
132,6	180	386

Dimensions in in.

W	H L				
5,22	7,09	15,2			

Mounting type E



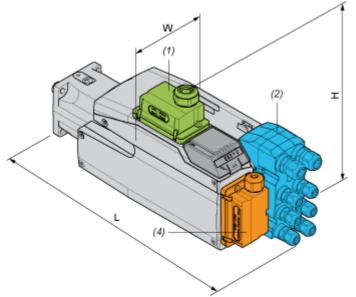
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

W	Н	L
132,6	217	376

Dimensions in in.				
W H L				
5,22	8,54	14,8		

Mounting type F



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

Dimensions in mm

W	Н	L
132,6	206,5	386

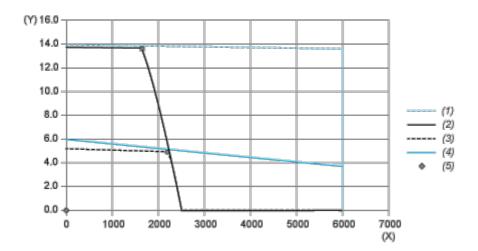
Dimensions in in.

W	Н	L
5,22	8,13	15,2

BMI1002P36F

Performance Curves

Performance Curves



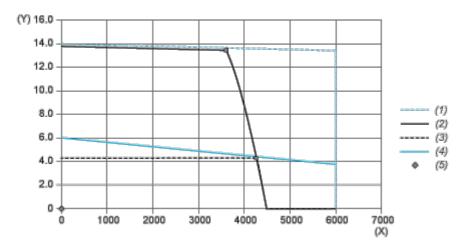
Torque/Speed Curves with 208 V Three Phases Supply Voltage

- (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

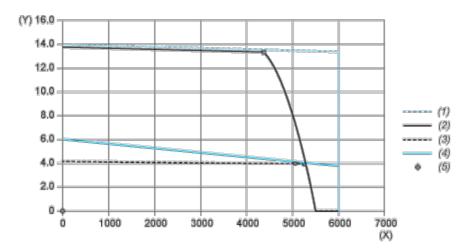


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		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