Product data sheet

Specification





6000 rpm

servo motor BMI 1-phase untapped IP54 single turn - 32768 p/t

BMI1002T06A

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

Price*: 1,791.90 USD

Main

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

Complementary Maximum Mechanical Speed

Maximum Mechanical Speed	6000 Ipili	
[Us] Rated Supply Voltage	115230 V - 1510 %	
Supply Voltage Limits	100240 V	
Phase	Single phase	
Supply Frequency	50/60 Hz - 55 %	
Network Frequency Limits	47.563 Hz	
Emc Filter	Integrated	
Continuous Output Current	6 A 8 kHz	
Output Current 3S Peak	18 A 230 V 3 s	
Continuous Stall Current	6 A	
Continuous Stall Torque	53.10 lbf.in (6 N.m) 115230 V single phase	
Peak Stall Torque	128.34 lbf.in (14.5 N.m) 115 V single phase 128.34 lbf.in (14.5 N.m) 230 V single phase	
Nominal Output Power	750 W 115 V single phase 1300 W 230 V single phase	
Nominal Torque	47.79 lbf.in (5.4 N.m) 115 V single phase 38.94 lbf.in (4.4 N.m) 230 V single phase	
Nominal Speed	1400 rpm 115 V single phase 3000 rpm 230 V single phase	
Maximum Current Irms	30 A 115 V, single phase 30 A 230 V, single phase	
Product Compatibility	Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT	
Shaft End	Untapped	
Second Shaft	Without second shaft end	
Shaft Diameter	0.75 in (19 mm)	
Shaft Length	1.57 in (40 mm)	
Feedback Type	Absolute single turn SinCos Hiperface	

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

Speed Feedback Resolution	32768 points/turn	
Holding Brake	Without	
Mounting Support	International standard flange	
Motor Flange Size	3.94 in (100 mm)	
Electrical Connection	Printed circuit board connector	
Torque Constant	0.89 N.m/A 68 °F (20 °C)	
Back Emf Constant	58.5 V/krpm 68 °F (20 °C)	
Number Of Motor Poles	10	
Rotor Inertia	6.28 kg.cm ²	
Stator Resistance	1.08 Ohm 68 °F (20 °C)	
Stator Inductance	4.7 mH 68 °F (20 °C)	
Stator Electrical Time Constant	4.35 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	
Type Of Cooling	Natural convection	
Length	10.75 in (273 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 Shaft IP54 Housing IP65

Ordering and shipping details

Category	US1PC5618287	
Discount Schedule	PC56	
Gtin	3606485377285	
Returnability	No	
Country Of Origin	US	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.87 in (20 cm)
Package 1 Width	10.16 in (25.8 cm)

Package 1 Length	22.24 in (56.5 cm)	
Package 1 Weight	20.94 lb(US) (9.5 kg)	

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

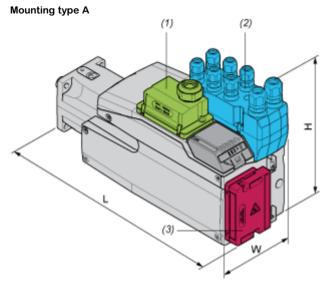
Certifications & Standards

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 www.P65Warnings.ca.gov	

Dimensions Drawings

External Dimensions

With Standard Braking Resistor



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

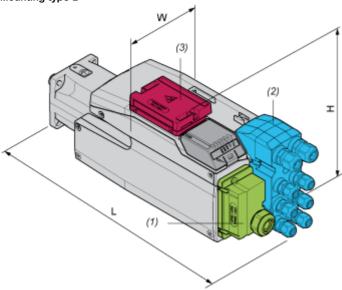
Dimensions in mm

W	Н	L
132,6	217	294

Dimensions in in

Difficitionis in in.		
W	H L	
5,22	8,54	11,57

Mounting type B



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

BMI1002T06A

(3) Standard braking resistor

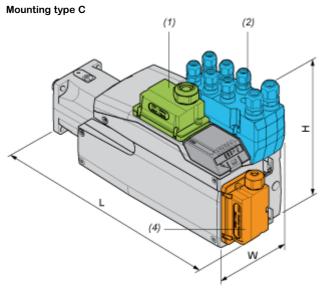
nsions	

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

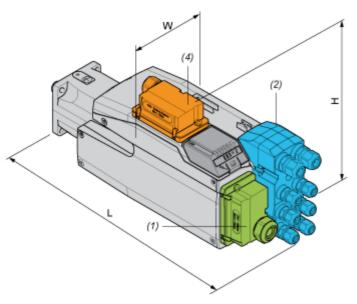
Dimensions in in.

W	Н	L			
5,22	8,54	12,05			

Mounting type D

Product data sheet

BMI1002T06A



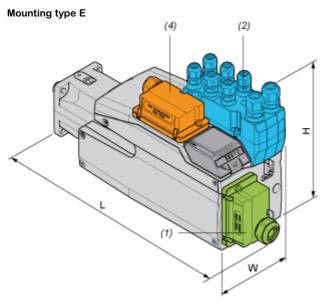
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

Difficusions in min				
W	H L			
132,6	180	343		

Dimensions in in.

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



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

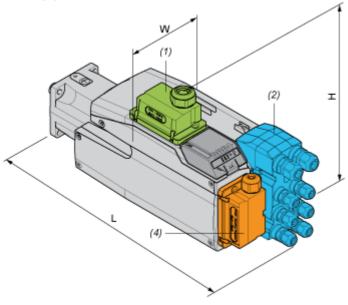
Dimensions in mm

D			
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

Difficusions in min			
W	Н	L	
132,6	206,5	343	

Dimensions in in

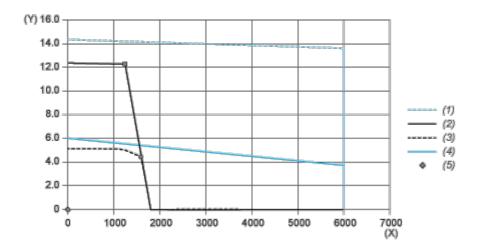
W H I				
5,22	8,13	13,5		

BMI1002T06A

Performance Curves

Performance Curves

Torque/Speed Curves with 115 V Single Phase Supply Voltage

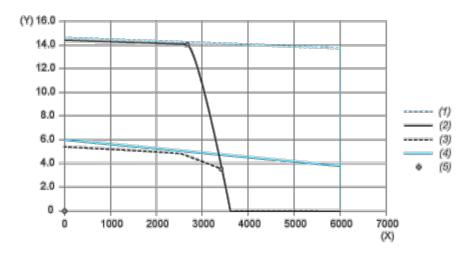


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		1721 W	1380 rpm	11.91 N.m
max Cont. Power (Drive)	•	757 W	1620 rpm	4.46 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		4069 W	2760 rpm	14.08 N.m
max Cont. Power (Drive)	•	1257 W	3420 rpm	3.51 N.m