# **Product data sheet**





## servo motor BMI 1-phase - keyed IP54 multiturn - 32768 p/t x 4096 t - brake

BMI1002T17F

! Discontinued on: Jan 23, 2021



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

Maximum Mechanical Speed	6000 rpm
[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	Keyed
Second Shaft	Without second shaft end
Shaft Diameter	0.75 in (19 mm)
Shaft Length	1.57 in (40 mm)

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

Key Width	0.24 in (6 mm)	
Feedback Type	Absolute multiturn SinCos Hiperface	
Speed Feedback Resolution	32768 points/turn x 4096 turns	
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	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	6.77 kg.cm <sup>2</sup>	
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	
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 Shaft IP54 Housing IP65

# Ordering and shipping details

Category	US1PC5618287
Discount Schedule	PC56
Gtin	3606485377391
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 cm)
Package 1 Width	7.32 in (18.6 cm)
Package 1 Length	21.65 in (55 cm)
Package 1 Weight	20.94 lb(US) (9.5 kg)

## **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium\*

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

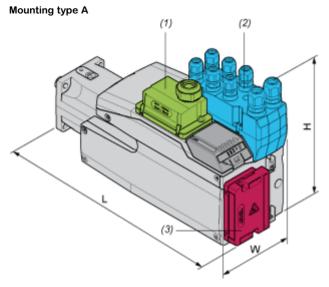
### **Certifications & Standards**

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

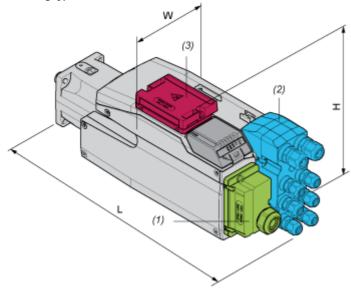
#### Dimensions in mm

W	Н	L
132,6	217	337

#### Dimensions in in.

W	Н	L
5,22	8,54	13,27

#### Mounting type B



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

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(3) Standard braking resistor

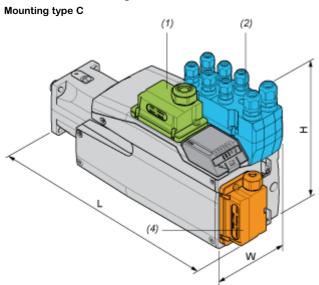
Dimei	nsions	in	mm

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

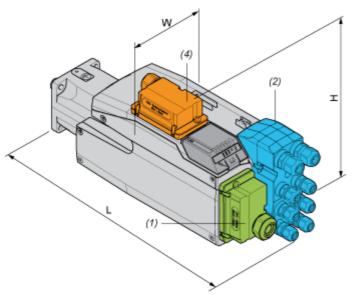
#### Dimensions in in.

D				
W	Н	L		
5,22	8,54	13,74		

### Mounting type D

## **Product data sheet**

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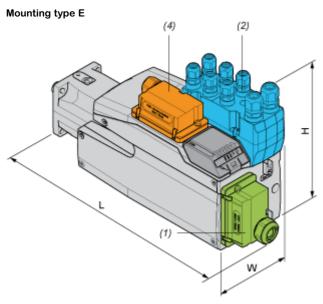
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

#### Dimensions in mm

Difficusions in min			
W	H L		
132,6	180	386	

#### Dimensions in in.

Difficilisions in in.				
W	Н	L		
5,22	7,09	15,2		



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

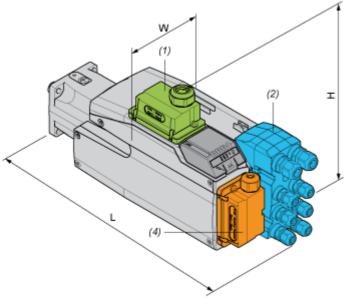
### Dimensions in mm

W	Н	L		
132,6	217	376		

Dimensions in in.

W	Н	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

Difficitations in thirt				
W	Н	L		
132,6	206,5	386		

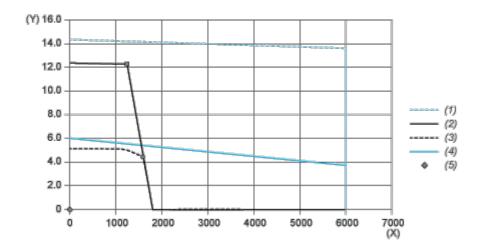
#### Dimensions in in.

Difficiono de la lina.				
W	Н	L		
5,22	8,13	15,2		

#### Performance Curves

### **Performance Curves**

### Torque/Speed Curves with 115 V Single Phase Supply Voltage

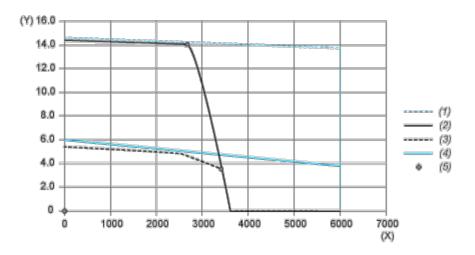


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		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