Specifications

### Schneider Electric BMI0702T16A

Picture

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

BMI0702T16A

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

### Price\*: 1,180.37 USD

### Main

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	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	2.6 A 8 kHz	
Output Current 3S Peak	10.5 A 230 V 1 s	
Continuous Stall Current	2.6 A	
Continuous Stall Torque	21.95 lbf.in (2.48 N.m) 115230 V single phase	
Peak Stall Torque	58.41 lbf.in (6.6 N.m) 115 V single phase 58.41 lbf.in (6.6 N.m) 230 V single phase	
Nominal Output Power	700 W 230 V single phase 400 W 115 V single phase	
Nominal Torque	19.47 lbf.in (2.2 N.m) 115 V single phase 15.05 lbf.in (1.7 N.m) 230 V single phase	
Nominal Speed	4000 rpm 230 V single phase 1700 rpm 115 V single phase	
Maximum Current Irms	17.7 A 230 V, single phase 17.7 A 115 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	0.43 in (11 mm)	

Key Width 0.16 in (4 mm)

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

0.91 in (23 mm)

Shaft Length

Feedback Type	Absolute single turn SinCos Hiperface
Speed Feedback Resolution	32768 points/turn
Holding Brake	Without
Mounting Support	International standard flange
Motor Flange Size	2.76 in (70 mm)
Electrical Connection	Printed circuit board connector
Torque Constant	0.63 N.m/A 68 °F (20 °C)
Back Emf Constant	42.1 V/krpm 68 °F (20 °C)
Number Of Motor Poles	10
Rotor Inertia	1.13 kg.cm <sup>2</sup>
Stator Resistance	2.7 Ohm 68 °F (20 °C)
Stator Inductance	7.8 mH 68 °F (20 °C)
Stator Electrical Time Constant	2.89 ms 68 °F (20 °C)
Maximum Radial Force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	10.55 in (268 mm)
Number Of Motor Stacks	2
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	2.953.23 in (7582 mm)
Distance Shaft Shoulder-Flange	0.10 in (2.5 mm)

## Environment

Ip Degree Of Protection	Shaft IP54
	Housing IP65

## Ordering and shipping details

Category	US1PC5618287
Discount Schedule	PC56
Gtin	3606485376080
Returnability	No
Country Of Origin	DE

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package 1 Weight	11.90 lb(US) (5.4 kg)

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen

**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.

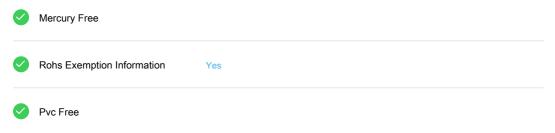
Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



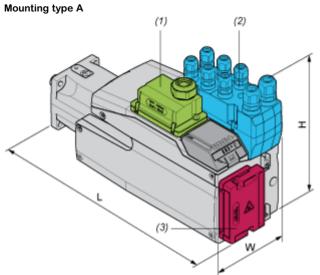
### **Certifications & Standards**

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

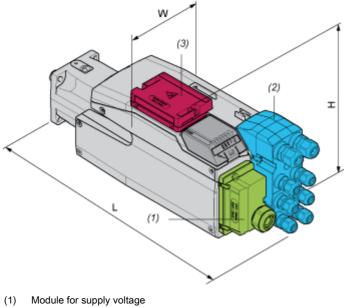
#### Dimensions in mm

W	Н	L
99	187	289

#### Dimensions in in.

W	Н	L
3,9	7,36	11,38

#### Mounting type B



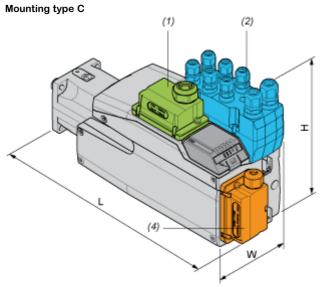
(2) I/O module

(3) Standard braking resistor

Dimensions in mm		
W	Н	L
99	138,5	338

Dimensions in in.		
W	Н	L
3,9	5,45	13,31

### With External Braking Resistor



(1) Module for supply voltage

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

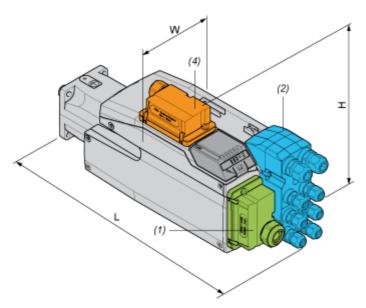
Dimensions in mm

W	Н	L
99	187	301

Dimensions in in.

W	Н	L
3,9	7,36	11,85

Mounting type D



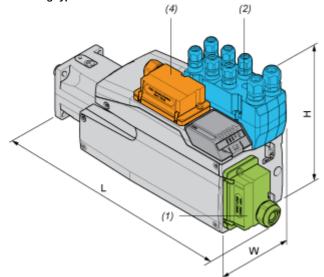
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

W	Н	L
99	160	338

Dimensions in in.

W	Н	L
3,9	6,3	13,31

#### Mounting type E



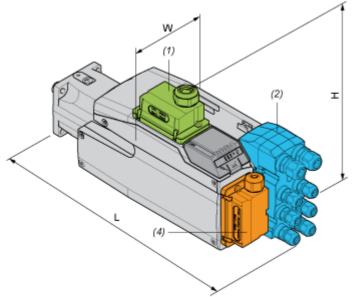
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

Dimensions in mm

W	н	L
99	187	328

Dimensions in in.					
W H L					
3,9	7,36	12,91			

#### Mounting type F



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

#### Dimensions in mm

W	Н	L
99	180	338

#### Dimensions in in.

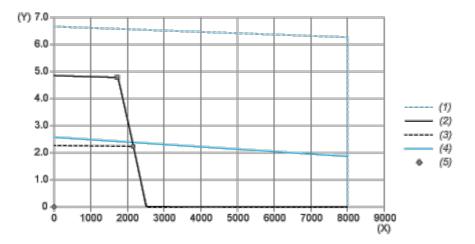
W	Н	L
3,9	7,09	13,31

BMI0702T16A

Performance Curves

#### Performance Curves

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

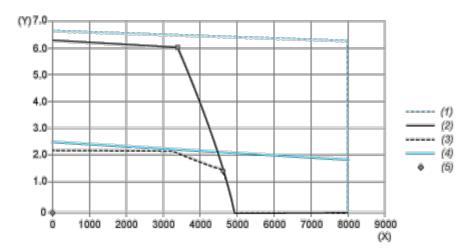


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		Power	At Speed	With Torque
max. Peak Power		860 W	1760 rpm	4.67 N.m
max Cont. Power (Drive)	•	499 W	2160 rpm	2.21 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		2129 W	3360 rpm	6.05 N.m
max Cont. Power (Drive)	•	736 W	4640 rpm	1.51 N.m