# **Product data sheet**

Specification





# servo motor BMI 3-phase - keyed IP54 single turn - 32768 p/t

BMI1002P16A

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

Price\*: 1,891.42 USD

## 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
Phase	Three phase
Supply Frequency	50/60 Hz - 55 %
Network Frequency Limits	47.563 Hz
Emc Filter	Integrated
Continuous Output Current	4 A 8 kHz
Output Current 3S Peak	12 A 400 V 3 s
Continuous Stall Current	4 A
Continuous Stall Torque	53.10 lbf.in (6 N.m) 208480 V three phase
Peak Stall Torque	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
Nominal Output Power	1000 W 208 V three phase 1900 W 400 V three phase 1900 W 480 V three phase
Nominal Torque	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
Nominal Speed	1900 rpm 208 V three phase 3800 rpm 400 V three phase 4700 rpm 480 V three phase
Maximum Current Irms	17.5 A 208 V, three phase 17.5 A 400 V, three phase 17.5 A 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	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.

1.57 in (40 mm)	
0.24 in (6 mm)	
Absolute single turn SinCos Hiperface	
32768 points/turn	
Without	
International standard flange	
3.94 in (100 mm)	
Printed circuit board connector	
1.28 N.m/A 68 °F (20 °C)	
84.52 V/krpm 68 °F (20 °C)	
10	
6.28 kg.cm <sup>2</sup>	
2.347 Ohm 68 °F (20 °C)	
9.79 mH 68 °F (20 °C)	
4.17 ms 68 °F (20 °C)	
990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm	
0.2 x Fr	
Natural convection	
10.75 in (273 mm)	
2	
3.74 in (95 mm)	
0.14 in (3.5 mm)	
4	
0.35 in (9 mm)	
4.53 in (115 mm)	

## **Environment**

Ip Degree Of Protection Shaft IP54 Housing IP65

# Ordering and shipping details

Category	US1PC5618287
Discount Schedule	PC56
Gtin	3606485377049
Returnability	No
Country Of Origin	DE

# **Packing Units**

Unit Type Of Package 1 PCE

Number Of Units In Package 1	1
Package 1 Height	10.63 in (27.000 cm)
Package 1 Width	7.95 in (20.200 cm)
Package 1 Length	23.39 in (59.400 cm)
Package 1 Weight	20.94 lb(US) (9.500 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	5
Package 2 Height	31.50 in (80.000 cm)
Package 2 Width	30.31 in (77.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	117.95 lb(US) (53.500 kg)

# **Contractual warranty**

Warranty 18 months

# Sustainability Screen 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	

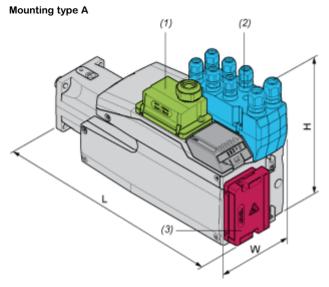
#### **Certifications & Standards**

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	

## **Dimensions Drawings**

#### **External Dimensions**

#### With Standard Braking Resistor



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

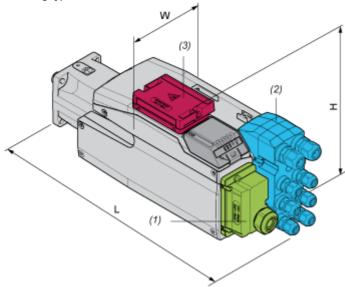
#### Dimensions in mm

W	Н	L
132,6	217	294

#### Dimensions in in.

W	Н	L
5,22	8,54	11,57

#### Mounting type B



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

## BMI1002P16A

(3) Standard braking resistor

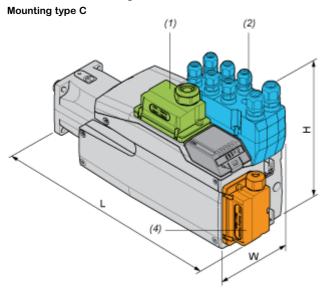
nsions	

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

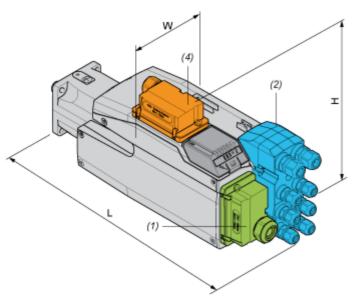
Dimensions in in.

W	Н	L
5,22	8,54	12,05

## Mounting type D

# **Product data sheet**

## BMI1002P16A



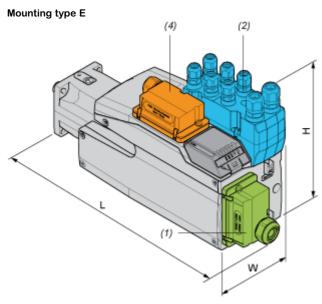
- (1) Module for supply voltage
- (2) I/O module
- (4) External braking resistor

#### Dimensions in mm

W	Н	L
132,6	180	343

#### Dimensions in in.

D				
W	Н	L		
5,22	7,09	13,5		



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

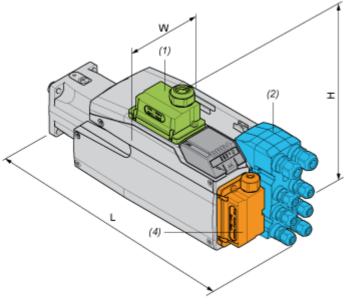
#### Dimensions in mm

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
- (4) External braking resistor

#### Dimensions in mm

W	H L				
132,6	206,5	343			

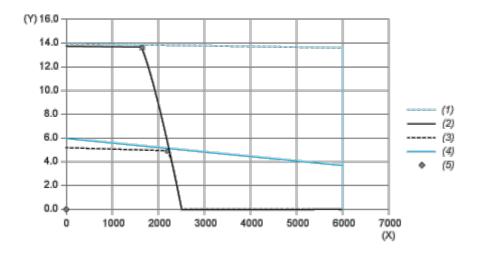
#### Dimensions in in

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

#### Performance Curves

#### **Performance Curves**

## Torque/Speed Curves with 208 V Three Phases Supply Voltage

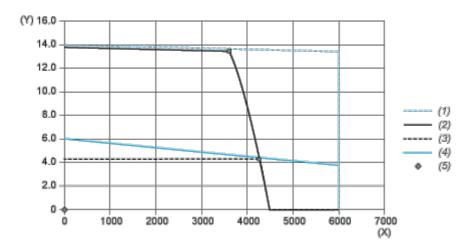


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		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

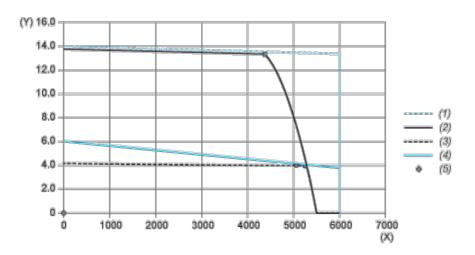


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

		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