

servo motor BMI 3-phase untapped IP65 multiturn - 32768 p/t x 4096 t

BMI1002P27A

EAN Code: 3606485377148

Main

| Range compatibility | Lexium 32i |
|---------------------------|------------------------------|
| Device short name | BMI |
| Product or component type | Servo motor with power stage |

Complementary

| • | |
|---------------------------|-------------------------------------------------------------------------------------------------|
| Maximum mechanical speed | 6000 rpm |
| [Us] rated supply voltage | 208480 V - 1510 % |
| Supply voltage limits | 208480 V |
| Network number of phases | Three phase |
| Supply frequency | 50/60 Hz - 55 % |
| Network frequency limits | 47.563 Hz |
| EMC filter | Integrated |
| Continuous output current | 4 A at 8 kHz |
| Output current 3s peak | 12 A at 400 V for 3 s |
| Continuous stall current | 4 A |
| Continuous stall torque | 6 N.m at 208480 V three phase |
| Peak stall torque | 14 N.m at 208 V three phase 14 N.m at 400 V three phase 14 N.m at 480 V three phase |
| Nominal output power | 1000 W at 208 V three phase 1900 W at 400 V three phase 1900 W at 480 V three phase |
| Nominal torque | 5.1 N.m at 400 V three phase 5.4 N.m at 208 V three phase 4.1 N.m at 480 V three phase |
| Nominal speed | 1900 rpm at 208 V three phase 3800 rpm at 400 V three phase 4700 rpm at 480 V three phase |
| Maximum current Irms | 17.5 A at 208 V, three phase 17.5 A at 400 V, three phase 17.5 A at 480 V, three phase |
| Product compatibility | Drive control unit LXM32i CANopen Drive control unit LXM32i EtherCAT |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 19 mm |
| Shaft length | 40 mm |

| Absolute multiturn SinCos Hiperface 32768 points/turn x 4096 turns Without International standard flange 100 mm Printed circuit board connector 1.28 N.m/A at 20 °C 84.52 V/krpm at 20 °C 10 6.28 kg.cm² 2.347 Ohm at 20 °C |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Without International standard flange 100 mm Printed circuit board connector 1.28 N.m/A at 20 °C 84.52 V/krpm at 20 °C 10 6.28 kg.cm² |
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| 1.28 N.m/A at 20 °C 84.52 V/krpm at 20 °C 10 6.28 kg.cm ² |
| 84.52 V/krpm at 20 °C 10 6.28 kg.cm² |
| 10 6.28 kg.cm ² |
| 6.28 kg.cm ² |
| |
| 2.347 Ohm at 20 °C |
| |
| 9.79 mH at 20 °C |
| 4.17 ms at 20 °C |
| 990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm |
| 0.2 x Fr |
| Natural convection |
| 273 mm |
| 2 |
| 95 mm |
| 3.5 mm |
| 4 |
| 9 mm |
| 115 mm |
| 3.5 mm |
| |

Environment

IP degree of protection IP65

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|---------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 25.0 cm |
| Package 1 Width | 18.6 cm |
| Package 1 Length | 55.0 cm |
| Package 1 Weight | 9.5 kg |

Logistical informations

Country of origin DE

Contractual warranty

Warranty

1 Jul 2025

18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability

| α | Environmental | faatamint |
|----------|----------------------|-----------|
| ~ | Environmental | HOOLDIIIL |

Environmental Disclosure

Product Environmental Profile

Use Better

| ⊗ Materials and Substances | |
|----------------------------------------|------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| REACh Regulation | REACh Declaration |
| PVC free | Yes |

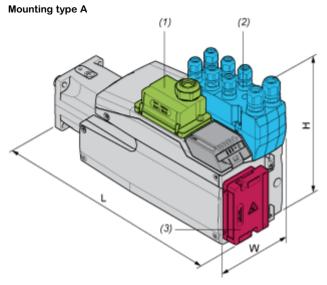
Use Again

| ○ Repack and remanufacture | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

External Dimensions

With Standard Braking Resistor



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

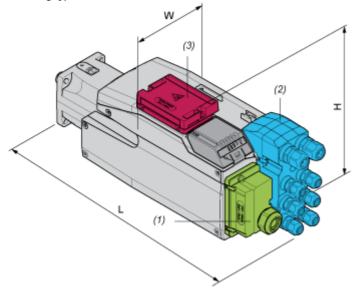
Dimensions in mm

| 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

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Standard braking resistor

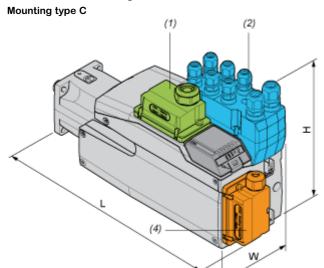
| Dimensions in mm | |
|------------------|--|
| | |

| 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
- External braking resistor (4)

Dimensions in mm

| W | Н | L |
|-------|-----|-----|
| 132,6 | 217 | 306 |

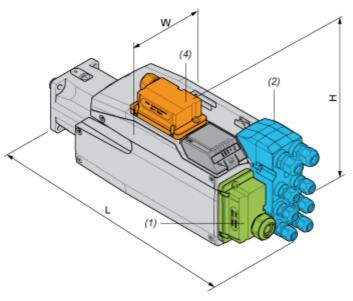
Dimensions in in.

| W H L | | | | | |
|-------|------|-------|--|--|--|
| 5,22 | 8,54 | 12,05 | | | |

Mounting type D

Product datasheet

BMI1002P27A



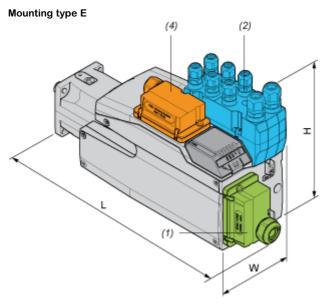
- (1) Module for supply voltage
- (2) I/O module
- External braking resistor (4)

Dimensions in mm

| W | L | |
|-------|-----|-----|
| 132,6 | 180 | 343 |

Dimensions in in

| Difficitions in in. | | | | | |
|---------------------|------|------|--|--|--|
| W | H L | | | | |
| 5,22 | 7,09 | 13,5 | | | |



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

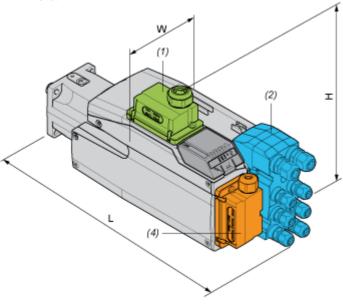
Dimensions in mm

| 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

| Difficition of the first | | | | | |
|--------------------------|-------|-----|--|--|--|
| W | Н | L | | | |
| 132,6 | 206,5 | 343 | | | |

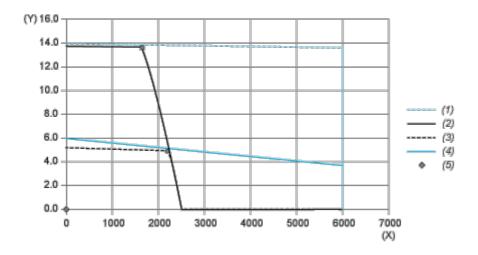
Dimensions in in.

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

Performance Curves

Performance Curves

Torque/Speed Curves with 208 V Three Phases Supply Voltage

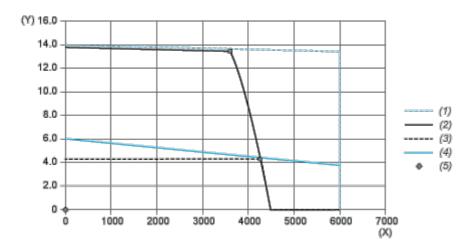


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

| | | 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

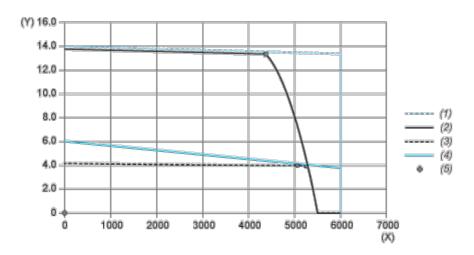


- (X) Speed (rpm)
- (Y) Torque (N.m)
- (1) Motor peak
- (2) Drive peak
- (3) Drive cont
- (4) Motor cont
- (5) Operating point

| | | 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 |