

# AC Input Unit G32A-B

CSM\_G32A-B\_DS\_E\_1\_2

Refer to *Safety Precautions for All Solid State Relays*.

## AC Input Unit Enabling AC Operation

- Connects to a maximum of two G3PA-VD Relays.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

## Model Number Structure

### ■ Model Number Legend

#### G32A-B-US

1      2      3

**1. Basic Model Type**

G32A:    Accessory for G3PA

**2. Basic Model Name**

B:        AC Input Unit

**3. Certification**

US:        Certified by UL and CSA

## Ordering Information

### ■ List of Models

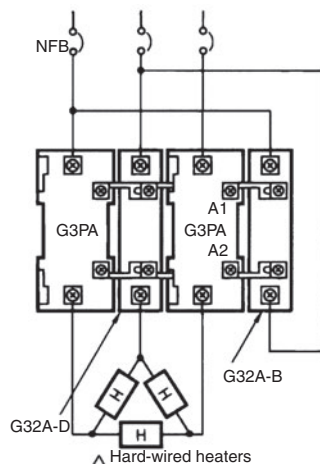
| Name          | Rated input voltage | Model     |
|---------------|---------------------|-----------|
| AC Input Unit | 100/120 VAC         | G32A-B-US |
|               | 200/240 VAC         |           |

**Note:** When ordering, specify the rated input voltage.

# Application Examples

## AC Operation

Two G3PA-VD Relays and One G32A-B AC Input Unit



- Note:** 1. Two voltage specifications are available for the G32A-B, 100/120 VAC and 200/240 VAC.  
2. The G32A-B can only be used with the G3PA-VD.

## Specifications

### ■ Ratings (at an Ambient Temperature of 25°C)

| Item                   |       |               | Rated input voltage           |                               |
|------------------------|-------|---------------|-------------------------------|-------------------------------|
|                        |       |               | 100/120 VAC                   | 200/240 VAC                   |
| Rated input current    | 50 Hz | 100 (200) VAC | 21.4 mA TYP                   | 20.9 mA TYP                   |
|                        |       | 120 (240) VAC | 26.5 mA TYP                   | 25.4 mA TYP                   |
|                        | 60 Hz | 100 (200) VAC | 25.4 mA TYP                   | 24.9 mA TYP                   |
|                        |       | 120 (240) VAC | 31.6 mA TYP                   | 30.3 mA TYP                   |
| Must operate voltage   |       |               | 75% max. of the rated voltage | 75% max. of the rated voltage |
| Must release voltage   |       |               | 10% min. of the rated voltage | 10% min. of the rated voltage |
| Output voltage/current |       |               | 12 VDC ±15%/15 mA max.        | 12 VDC ±15%/15 mA max.        |

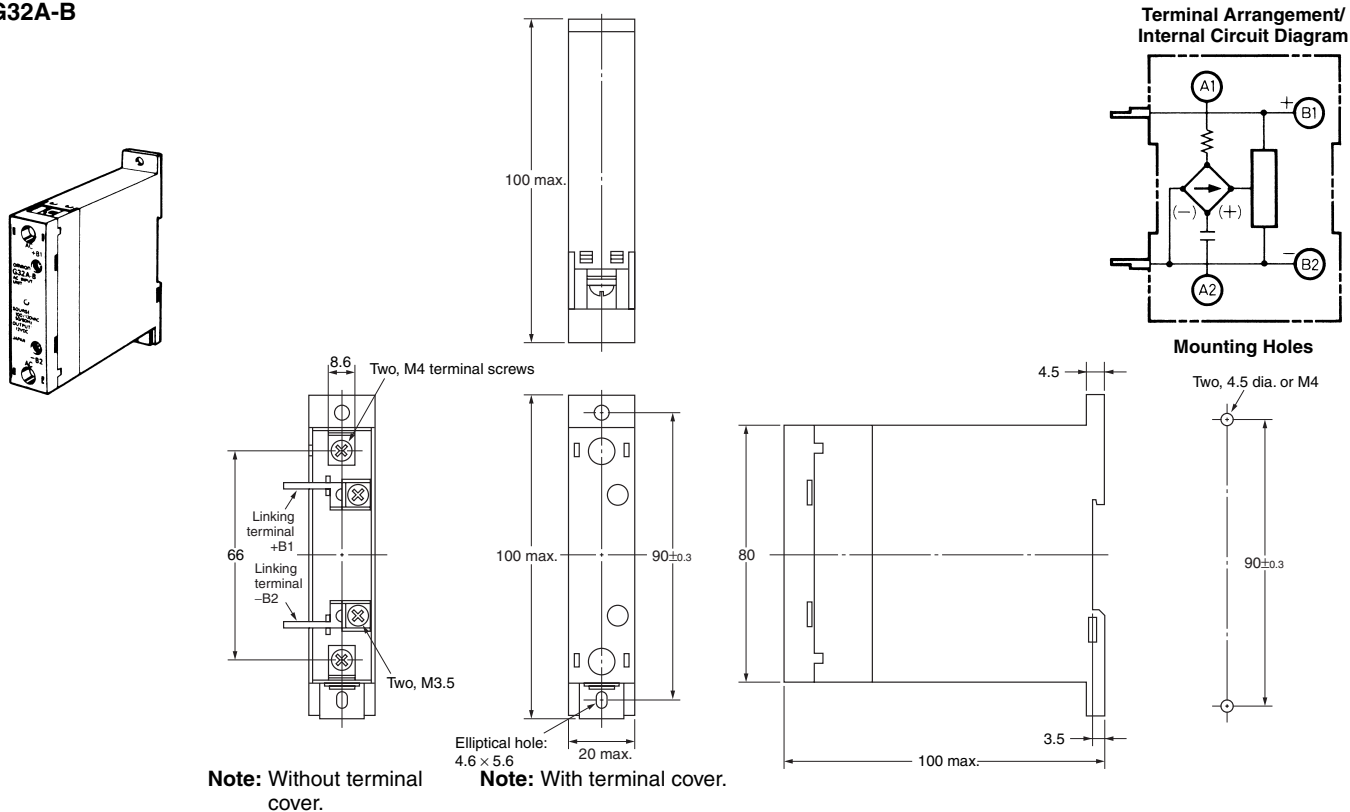
### ■ Characteristics

| Item                 | Rated input voltage   |                |
|----------------------|---|----------------|
|                      | 100/120 VAC   | 200/240 VAC    |
| Input voltage range  | 75 to 132 VAC   | 150 to 264 VAC |
| Operate time         | 1.5 cycles max. of load power supply  |                |
| Release time         | 1.5 cycles max. of load power supply  |                |
| Vibration resistance | 10 to 55 to 10 Hz, 0.375-mm single amplitude (when mounted to DIN track)  |                |
| Shock resistance     | 300 m/s <sup>2</sup> (Approx. 30 G)   |                |
| Ambient temperature  | Storage: -30 to 100°C (with no icing or condensation)<br>Operating: -30 to 80°C (with no icing or condensation) |                |
| Ambient humidity     | Operating: 45% to 85%   |                |
| Weight               | Approx. 80 g  |                |

## Dimensions

**Note:** All units are in millimeters unless otherwise indicated.

### G32A-B



## Safety Precautions

### ■ Precautions for Correct Use

Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect on product performance.

For details on connecting linking terminals, refer to G3PA.

#### Input

The capacitor drop method is used in the internal circuit of the G32A-B. As a result, if the input of the G32A-B is switched using relay contacts, when power is OFF, the capacitor will cause a voltage approximately twice the power supply voltage to be applied to the relay contacts.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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## Disclaimers

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### DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

### PERFORMANCE DATA

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