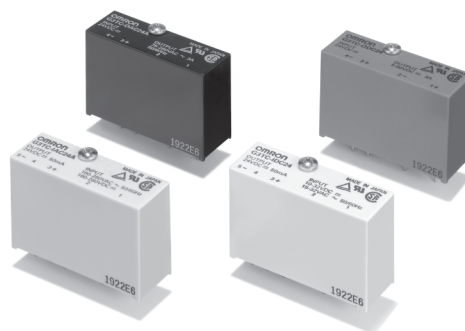


# Solid State Relays for Industrial I/O

## G3TC

### Reliable SSRs for I/O Module Mounting Boards

- Use I/O SSRs as an interface between logic circuitry and the load.
- Variety of AC/DC input and output modules with industry-standard footprint and color coding.
- Built-in hold down screw fastens relay to board to eliminate loosening by vibration.
- Optical Isolation - Dielectric strength of 4 kV between input and output terminals.
- Zero cross function on AC output models.
- AC and DC input versions incorporate a rectifier to accept both AC or DC inputs.
- UL, CSA and TUV approved.



## Ordering Information

### ■ Input Module

| Function | Color  | Isolation     | Input operating voltage range | Logic level output supply voltage | Model                |
|----------|--------|---------------|-------------------------------|-----------------------------------|----------------------|
| AC input | Yellow | Photo-coupler | 90-140 VDC/AC                 | 5 VDC                             | G3TC-IAC5 AC/DC120   |
|          |        |               |                               | 15 VDC                            | G3TC-IAC15 AC/DC120  |
|          |        |               |                               | 24 VDC                            | G3TC-IAC24 AC/DC120  |
|          |        |               | 180-280 VDC/AC                | 5 VDC                             | G3TC-IAC5A AC/DC240  |
|          |        |               |                               | 15 VDC                            | G3TC-IAC15A AC/DC240 |
|          |        |               |                               | 24 VDC                            | G3TC-IAC24A AC/DC240 |
| DC input | White  |               | 10-32 VDC/AC                  | 5 VDC                             | G3TC-IDC5 DC/AC24    |
|          |        |               |                               | 15 VDC                            | G3TC-IDC15 DC/AC24   |
|          |        |               |                               | 24 VDC                            | G3TC-IDC24 DC/AC24   |

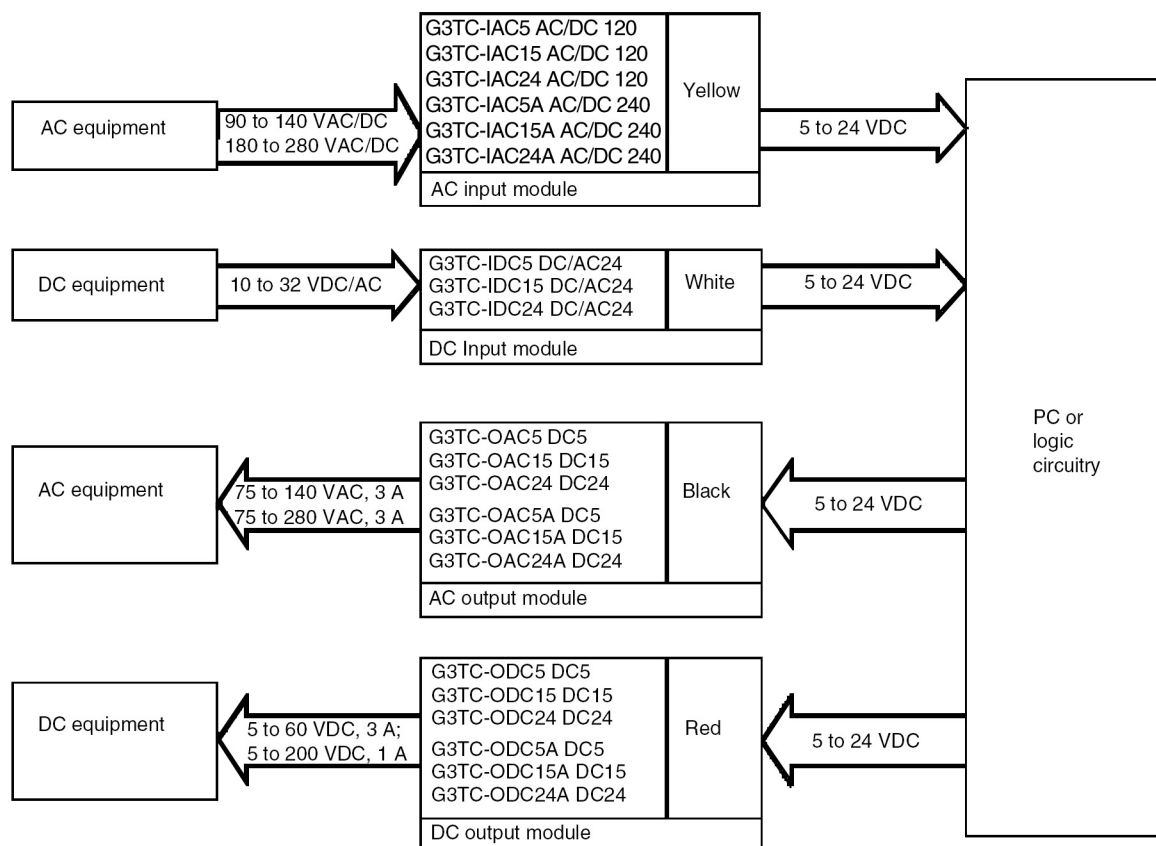
### ■ Output Module

| Function  | Color | Isolation     | Rated input voltage | Rated output voltage (Applicable output voltage) | Model            |
|-----------|-------|---------------|---------------------|--------------------------------------------------|------------------|
| AC output | Black | Photo-triac   | 5 VDC               | 3 A at 120 VAC<br>(3 A at 75-140 VAC)            | G3TC-OAC5 DC5    |
|           |       |               | 15 VDC              |                                                  | G3TC-OAC15 DC15  |
|           |       |               | 24 VDC              |                                                  | G3TC-OAC24 DC24  |
|           |       |               | 5 VDC               | 3 A at 240 VAC<br>(3 A at 75-280 VAC)            | G3TC-OAC5A DC5   |
|           |       |               | 15 VDC              |                                                  | G3TC-OAC15A DC15 |
|           |       |               | 24 VDC              |                                                  | G3TC-OAC24A DC24 |
| DC output | Red   | Photo-coupler | 5 VDC               | 3 A at 60 VDC<br>(3 A at 5-60 VDC)               | G3TC-ODC5 DC5    |
|           |       |               | 15 VDC              |                                                  | G3TC-ODC15 DC15  |
|           |       |               | 24 VDC              |                                                  | G3TC-ODC24 DC24  |
|           |       |               | 5 VDC               | 1 A at 200 VDC<br>(1 A at 5-200 VDC)             | G3TC-ODC5A DC5   |
|           |       |               | 15 VDC              |                                                  | G3TC-ODC15A DC15 |
|           |       |               | 24 VDC              |                                                  | G3TC-ODC24A DC24 |

## ■ Typical Applications

- HVAC, refrigeration equipment
- Automation controls
- Injection molding machines
- Packaging equipment

## ■ I/O Classification by Color



## Specifications

### ■ Common Characteristics

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Insulation resistance | 100 MΩ min at 500 VDC                                                                                           |
| Dielectric strength   | 4000 VAC, 50/60 Hz for 1 minute between input and output                                                        |
| Vibration resistance  | Malfunction: 10 to 55 Hz, 1.5 mm double amplitude                                                               |
| Shock resistance      | Malfunction: 1,000 m/s <sup>2</sup>                                                                             |
| Ambient temperature   | Operating: -30°C to 80°C with no icing or condensation<br>Storage: -30°C to 100°C with no icing or condensation |
| Ambient humidity      | Operating: 45% to 85%                                                                                           |
| Approved standards    | UL Recognized, CSA Certified, EN60950                                                                           |

## ■ AC Input Module G3TC-IAC

### Ratings (Ambient Temperature 25°C)

#### Input

| Item                           | G3TC-IAC5      | G3TC-IAC15 | G3TC-IAC24 | G3TC-IAC5A      | G3TC-IAC15A | G3TC-IAC24A |
|--------------------------------|----------------|------------|------------|-----------------|-------------|-------------|
| Rated voltage                  | 120 VAC/DC     |            |            | 240 VAC/DC      |             |             |
| Operating voltage              | 90-140 VAC/DC  |            |            | 180-280 VAC/DC  |             |             |
| Must operate voltage           | 90 VAC/DC max. |            |            | 180 VAC/DC max. |             |             |
| Must release voltage           | 25 VAC/DC min. |            |            | 45 VAC/DC min.  |             |             |
| Input current at rated voltage | 5 mA max.      |            |            | 5 mA max.       |             |             |
| Input resistance (see note 1)  | 30 kΩ          |            |            | 69 kΩ           |             |             |

#### Output

| Item                                                          | G3TC-IAC5  | G3TC-IAC15 | G3TC-IAC24 | G3TC-IAC5A | G3TC-IAC15A | G3TC-IAC24A |
|---------------------------------------------------------------|------------|------------|------------|------------|-------------|-------------|
| Output supply voltage-nominal                                 | 5 VDC      | 15 VDC     | 24 VDC     | 5 VDC      | 15 VDC      | 24 VDC      |
| Output supply voltage-range                                   | 4.5-6 VDC  | 12-18 VDC  | 20-30 VDC  | 4.5-6 VDC  | 12-18 VDC   | 20-30 VDC   |
| Output supply current at rated input voltage (see note 2)     | 18 mA max. | 15 mA max. | 12 mA max. | 18 mA max. | 15 mA max.  | 12 mA max.  |
| Control resistance (Rc in circuit configuration - see note 1) | 240 Ω      | 1 kΩ       | 2.2 kΩ     | 240 Ω      | 1k Ω        | 2.2k Ω      |
| Output current                                                | 50 mA max. |            |            |            |             |             |

### Characteristics

| Item                      | G3TC-IAC5   | G3TC-IAC15 | G3TC-IAC24 | G3TC-IAC5A | G3TC-IAC15A | G3TC-IAC24A |
|---------------------------|-------------|------------|------------|------------|-------------|-------------|
| Operate time (see note 3) | 20 ms max.  |            |            |            |             |             |
| Release time (see note 3) | 20 ms max.  |            |            |            |             |             |
| Output ON voltage drop    | 0.4 V max.  |            |            |            |             |             |
| Leakage current           | 100 μA max. |            |            |            |             |             |
| Weight                    | Approx. 40g |            |            |            |             |             |

Note: 1. Resistance values are reference.

2. The input module supplies the current on I/O circuit board at nominal output voltage.

3. At nominal output supply voltage, rated input voltage and 25°C.

## ■ DC Input Module G3TC-IDC

### Ratings (Ambient Temperature 25°C)

#### Input

| Item                          | G3TC-IDC5            | G3TC-IDC15 | G3TC-IDC24 |
|-------------------------------|----------------------|------------|------------|
| Rated voltage                 | 24 VDC/AC            |            |            |
| Operating voltage             | 10-32 VDC/ 15-32 VAC |            |            |
| Must operate voltage          | 10 VDC/15 VAC max.   |            |            |
| Must release voltage          | 3 VDC/ 3 VAC min.    |            |            |
| Input current rated voltage   | 25 mA max.           |            |            |
| Input resistance (see note 1) | 1.5 kΩ               |            |            |

#### Output

| Item                                                          | G3TC-IDC5  | G3TC-IDC15 | G3TC-IDC24 |
|---------------------------------------------------------------|------------|------------|------------|
| Output supply voltage-nominal                                 | 5 VDC      | 15 VDC     | 24 VDC     |
| Output supply voltage-range                                   | 4.5-6 VDC  | 12-18 VDC  | 20-30 VDC  |
| Output supply current at rated input voltage (see note 2)     | 18 mA max. | 15 mA max. | 12 mA max. |
| Control resistance (Rc in circuit configuration - see note 1) | 240 Ω      | 1 kΩ       | 2.2 kΩ     |
| Output current                                                | 50 mA max. |            |            |

## Characteristics

| Item                      | G3TC-IDC5        | G3TC-IDC15 | G3TC-IDC24 |
|---------------------------|------------------|------------|------------|
| Operate time (see note 3) | 5 ms max.        |            |            |
| Release time (see note 3) | 5 ms max.        |            |            |
| Output ON voltage drop    | 0.4 V max.       |            |            |
| Leakage current           | 100 $\mu$ A max. |            |            |
| Weight                    | Approx. 40g      |            |            |

**Note:** 1. Resistance values are reference.

2. The input module supplies the current on I/O circuit board at nominal output voltage.

3. At nominal output supply voltage, rated input voltage and 25°C.

## ■ AC Output Module G3TC-OAC

### Ratings (Ambient Temperature 25°C)

#### Input

| Item                                                                      | G3TC-OAC5    | G3TC-OAC15   | G3TC-OAC24     | G3TC-OAC5A   | G3TC-OAC15A  | G3TC-OAC24A    |
|---------------------------------------------------------------------------|--------------|--------------|----------------|--------------|--------------|----------------|
| Rated voltage                                                             | 5 VDC        | 15 VDC       | 24 VDC         | 5 VDC        | 15 VDC       | 24 VDC         |
| Operating voltage                                                         | 2.5-8 VDC    | 9-16 VDC     | 18-32 VDC      | 2.5-8 VDC    | 9-16 VDC     | 18-32 VDC      |
| Must operate voltage                                                      | 2.5 VDC max. | 9 VDC max.   | 18 VDC max.    | 2.5 VDC max. | 9 VDC max.   | 18 VDC max.    |
| Must release voltage                                                      | 1 VDC min.   |              |                |              |              |                |
| Input current at rated voltage (see note 2)                               | 18 mA max.   |              |                |              |              |                |
| Control resistance (R <sub>c</sub> in circuit configuration - see note 1) | 240 $\Omega$ | 1 k $\Omega$ | 2.2 k $\Omega$ | 240 $\Omega$ | 1 k $\Omega$ | 2.2 k $\Omega$ |

#### Output

| Item               | G3TC-OAC5             | G3TC-OAC15 | G3TC-OAC24 | G3TC-OAC5A | G3TC-OAC15A | G3TC-OAC24A |
|--------------------|-----------------------|------------|------------|------------|-------------|-------------|
| Rated load voltage | 120 VAC               |            |            | 240 VAC    |             |             |
| Load voltage range | 75-140 VAC            |            |            | 75-280 VAC |             |             |
| Load current       | 0.05 to 3 A           |            |            |            |             |             |
| Inrush current     | 45 A (60 Hz, 1 cycle) |            |            |            |             |             |

## Characteristics

| Item                      | G3TC-OAC5                                  | G3TC-OAC15 | G3TC-OAC24 | G3TC-OAC5A             | G3TC-OAC15A | G3TC-OAC24A |
|---------------------------|--------------------------------------------|------------|------------|------------------------|-------------|-------------|
| Operate time (see note 3) | 1/2 of load power source cycle + 1 ms max. |            |            |                        |             |             |
| Release time (see note 3) | 1/2 of load power source cycle + 1 ms max. |            |            |                        |             |             |
| Output ON voltage drop    | 1.6 V (RMS) max.                           |            |            |                        |             |             |
| Leakage current           | 2.5 mA max. (at 120 VAC)                   |            |            | 5 mA max. (at 240 VAC) |             |             |
| Weight                    | Approx. 45g                                |            |            |                        |             |             |

**Note:** 1. Resistance values are reference.

2. The output module supplies the current on I/O circuit board at nominal input voltage.

3. At nominal output supply voltage, rated input voltage and 25°C.

## ■ DC Output Module G3TC-ODC

### Ratings (Ambient Temperature 25°C)

#### Input

| Item                                                          | G3TC-ODC5    | G3TC-ODC15 | G3TC-ODC24  | G3TC-ODC5A   | G3TC-ODC15A | G3TC-ODC24A |
|---------------------------------------------------------------|--------------|------------|-------------|--------------|-------------|-------------|
| Rated voltage                                                 | 5 VDC        | 15 VDC     | 24 VDC      | 5 VDC        | 15 VDC      | 24 VDC      |
| Operating voltage                                             | 2.5-8 VDC    | 9-16 VDC   | 18-32 VDC   | 2.5-8 VDC    | 9-16 VDC    | 18-32 VDC   |
| Must operate voltage                                          | 2.5 VDC max. | 9 VDC max. | 18 VDC max. | 2.5 VDC max. | 9 VDC max.  | 18 VDC max. |
| Must release voltage                                          | 1 VDC min.   |            |             |              |             |             |
| Input current at rated voltage (see note 2)                   | 18 mA max.   |            |             |              |             |             |
| Control resistance (Rc in circuit configuration - see note 1) | 240 Ω        | 1 kΩ       | 2.2 kΩ      | 240 Ω        | 1 kΩ        | 2.2 kΩ      |

#### Output

| Item               | G3TC-ODC5    | G3TC-ODC15 | G3TC-ODC24 | G3TC-ODC5A    | G3TC-ODC15A | G3TC-ODC24A |
|--------------------|--------------|------------|------------|---------------|-------------|-------------|
| Rated load voltage | 60 VDC       |            |            | 200 VDC       |             |             |
| Load voltage range | 5-60 VDC     |            |            | 5-200 VDC     |             |             |
| Load current       | 0.01 to 3 A  |            |            | 0.01 to 1.0 A |             |             |
| Inrush current     | 18 A (10 ms) |            |            | 9 A (10 ms)   |             |             |

### Characteristics

| Item                      | G3TC-ODC5               | G3TC-ODC15 | G3TC-ODC24 | G3TC-ODC5A             | G3TC-ODC15A | G3TC-ODC24A |
|---------------------------|-------------------------|------------|------------|------------------------|-------------|-------------|
| Operate time (see note 3) | 50 μs max.              |            |            | 100 μs max.            |             |             |
| Release time (see note 3) | 50 μs max. (see note 4) |            |            | 750 μs max.            |             |             |
| Output ON voltage drop    | 1.6 V max.              |            |            |                        |             |             |
| Leakage current           | 1 mA max. (at 60 VDC)   |            |            | 1 mA max. (at 200 VDC) |             |             |
| Weight                    | Approx. 45g             |            |            | Approx. 40g            |             |             |

**Note:** 1. Resistance values are reference.

2. The output module supplies the current on I/O circuit board at nominal input voltage.

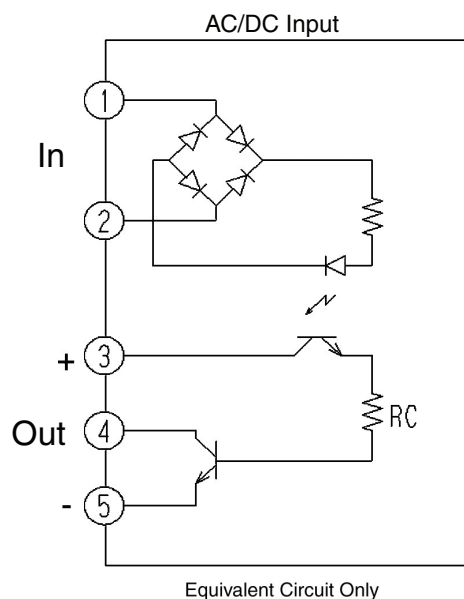
3. At rated load voltage, maximum rated load current, rated input voltage and 25°C.

4. At 24 VDC load voltage, 3 A load current and 25°C.

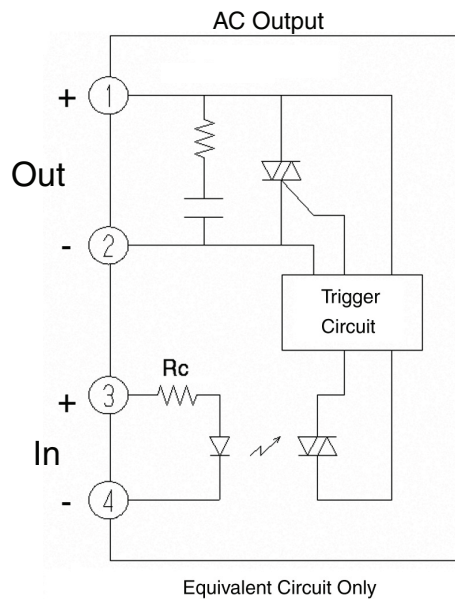
# Engineering Data

## Internal Circuit

### G3TC-IAC/IDC

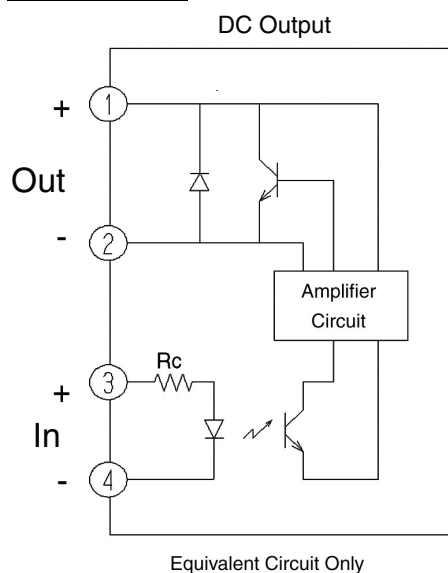


### G3TC-OAC



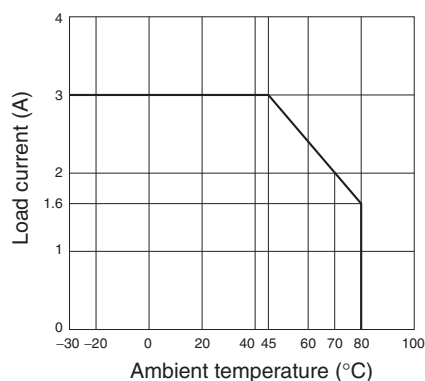
**Note:** Internal biasing circuitry is different between AC input and DC input modules

### G3TC-ODC

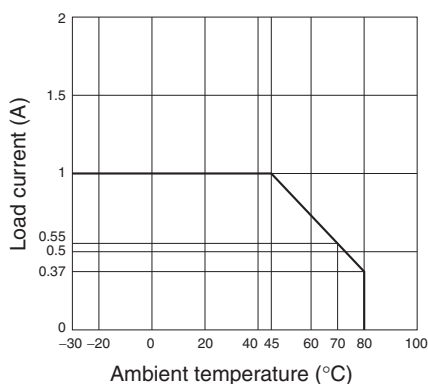


## Load Current vs. Ambient Temperature Characteristics

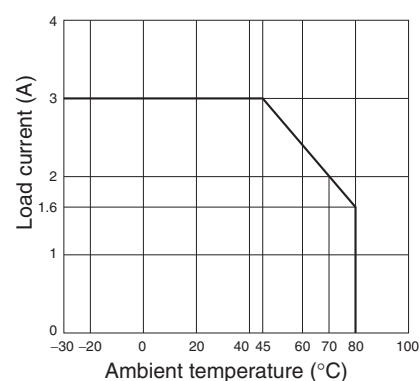
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G3TC-ODC15  
G3TC-ODC24



G3TC-ODC5A  
G3TC-ODC15A  
G3TC-ODC24A



G3TC-OAC5  
G3TC-OAC15  
G3TC-OAC24

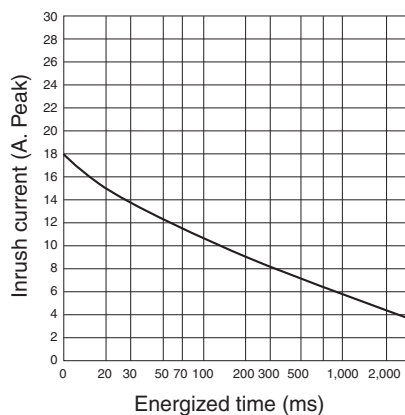


G3TC-OAC5A  
G3TC-OAC15A  
G3TC-OAC24A

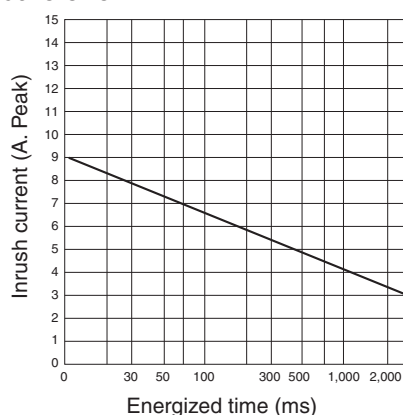
## Inrush Current Resitivity

Non-repetitive (Keep inrush current to half the rated value if it occurs.)

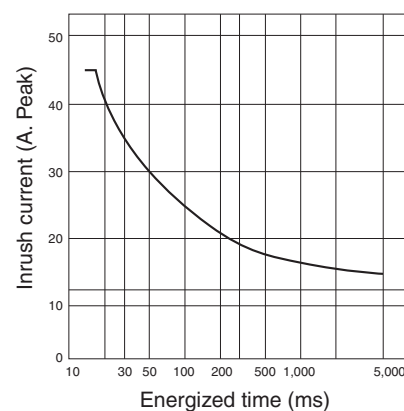
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G3TC-ODC15  
G3TC-ODC24



G3TC-ODC5A  
G3TC-ODC15A  
G3TC-ODC24A



G3TC-OAC5  
G3TC-OAC15  
G3TC-OAC24

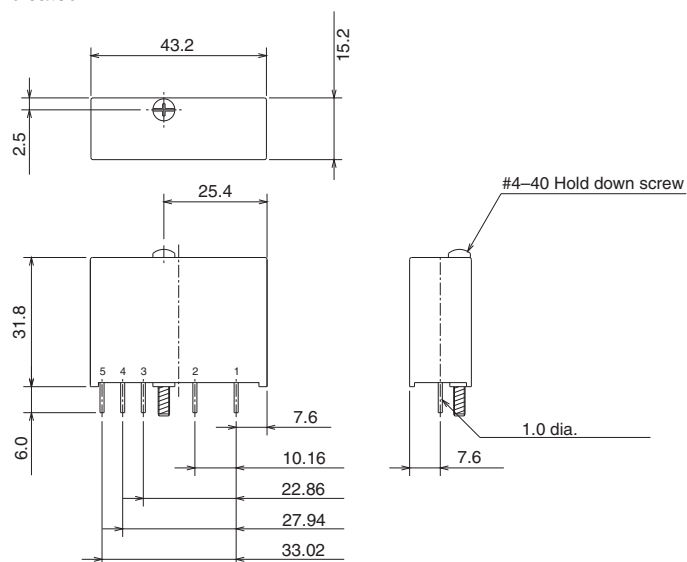
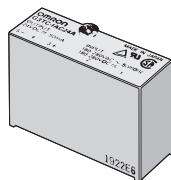


G3TC-OAC5A  
G3TC-OAC15A  
G3TC-OAC24A

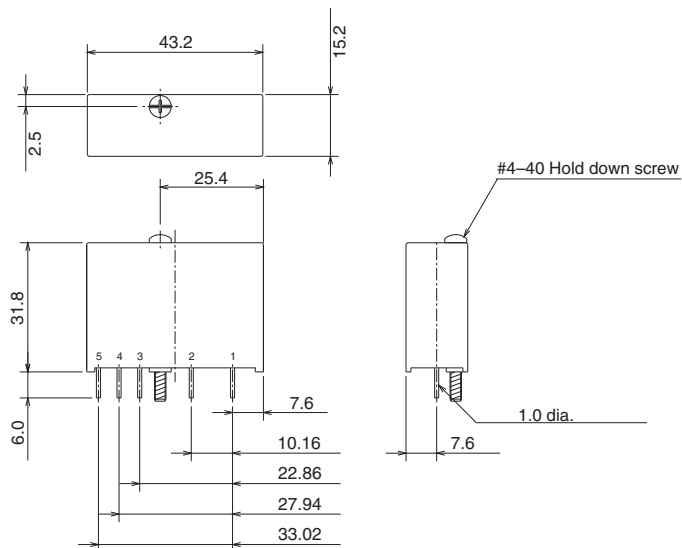
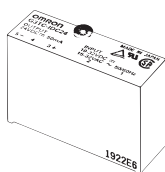
# Dimensions

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

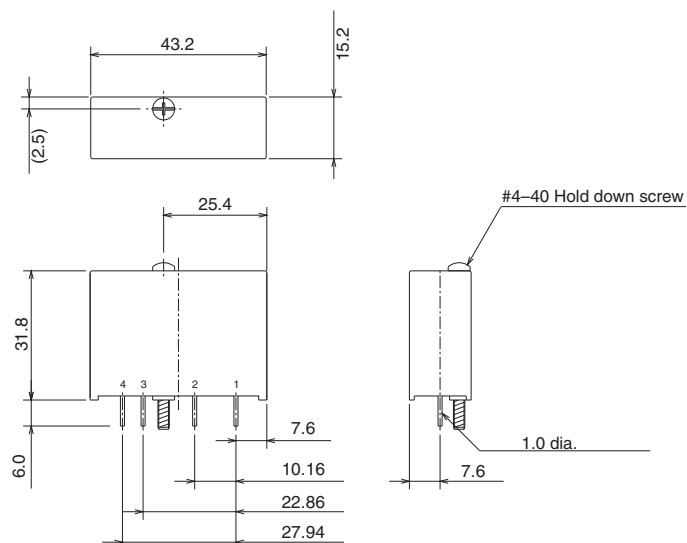
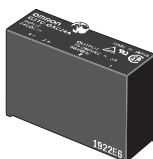
**G3TC-IAC5    G3TC-IAC5A**  
**G3TC-IAC15    G3TC-IAC15A**  
**G3TC-IAC24    G3TC-IAC24A**



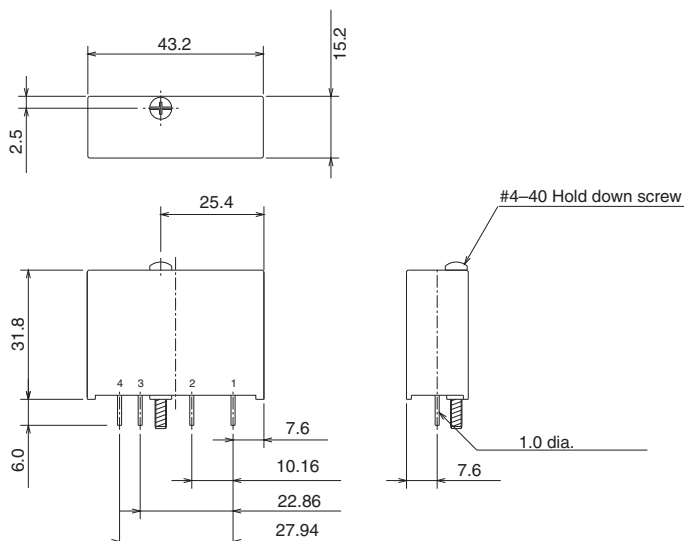
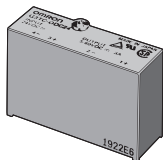
**G3TC-IDC5**  
**G3TC-IDC15**  
**G3TC-IDC24**



**G3TC-OAC5    G3TC-OAC5A**  
**G3TC-OAC15    G3TC-OAC15A**  
**G3TC-OAC24    G3TC-OAC24A**



G3TC-ODC5 G3TC-ODC5A  
G3TC-ODC15 G3TC-ODC15A  
G3TC-ODC24 G3TC-ODC24A



## ■ Approvals

UL Recognized (File No. E64562) / CSA Certified (File No. 35535) - - Ambient Temp. = 40°C

### Input

| Model                                | Input voltage        |
|--------------------------------------|----------------------|
| G3TC-IAC5, -IAC15, -IAC24            | 90-140 V AC/DC       |
| G3TC-IAC5A, -IAC15A, -IAC24A         | 180-280 V AC/DC      |
| G3TC-IDC5, -IDC15, -IDC24            | 10-32 VDC, 12-32 VAC |
| G3TC-ODC5, -ODC5A, -OAC5, -OAC5A     | 5 VDC                |
| G3TC-ODC15, -ODC15A, -OAC15, -OAC15A | 15 VDC               |
| G3TC-ODC24, -ODC24A, -OAC24, -OAC24A | 24 VDC               |

### Output

| Model                        | Load voltage | Load current |
|------------------------------|--------------|--------------|
| G3TC-IAC5, -IAC15, -IAC24    | 5/15/24 VDC  | 50 mA        |
| G3TC-IAC5A, -IAC15A, -IAC24A | 5/15/24 VDC  | 50 mA        |
| G3TC-IDC5, -IDC15, -IDC24    | 5/15/24 VDC  | 50 mA        |
| G3TC-ODC5, -ODC15, -ODC24    | 5-60 VDC     | 3 A          |
| G3TC-ODC5A, -ODC15A, -ODC24A | 5-200 VDC    | 1 A          |
| G3TC-OAC5, -OAC15, -OAC24    | 75-140 VAC   | 3 A          |
| G3TC-OAC5A, -OAC15A, -OAC24A | 75-280 VAC   | 3 A          |

**Note:** The rated values approved by each of the safety standards (e.g., UL, CSA and TUV) may be different from the performance characteristics individually defined in this catalog.

# Precautions

**⚠ WARNING**  
Do not touch the relay while power is supplied or immediately after G3TC is turned OFF. Doing so may result in burns.

**⚠ WARNING**  
Do not touch the load terminal of the G3TC immediately after the power is turned OFF, otherwise an electric shock may be received due to the residual charge of the built-in C/R circuit.

**⚠ WARNING**  
Be sure to turn OFF the power supply to the G3TC before wiring, otherwise an electric shock may result.

**⚠ WARNING**  
Ensure that a short-circuit current does not flow on the load side of the SSR, otherwise the G3TC may be damaged.

## General Precautions

At OMRON, we are constantly working to improve the quality and reliability of our products. SSRs, however, use semiconductors, which are prone to malfunction. Be sure to use SSRs within their rated value. Use the SSR only in systems that are designed with redundancies, flame protection, counter measures to prevent operation errors, and other countermeasures to prevent accidents involving human life or fires.

1. Do not apply excessive voltage or current to the input or output circuit of the G3TC. Doing so may result in malfunction or burning.
2. Do not connect the input and output circuits incorrectly. Doing so may result in malfunction or burning.
3. Do not obstruct the flow of air around the G3TC. Abnormal heating of the G3TC may result in short-circuiting of output elements and burning.

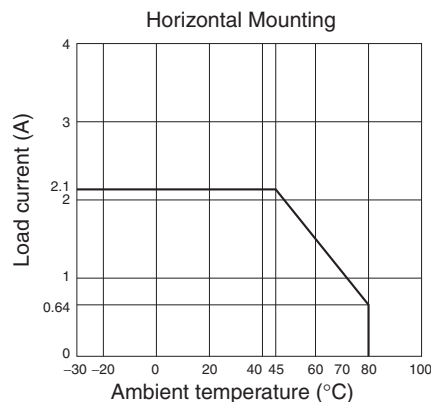
## Correct Use

### Before Actual Operation

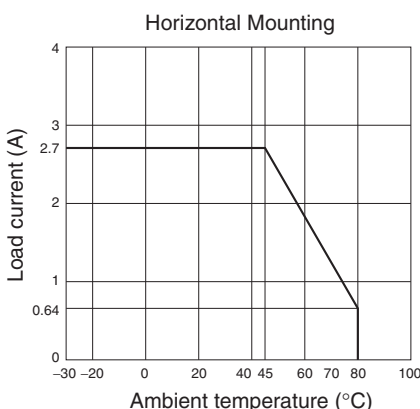
1. In actual operation, the G3TC may cause accidents that were unforeseeable at the theoretical stage. Therefore, it is necessary to test the G3TC under a variety of conditions that are possible. As for the characteristics of the G3TC, it is necessary to consider the differences between G3TC models.
2. The ratings in this datasheet are for testing in a temperature range of 15 to 30°C, a relative humidity range of 25% to 85%, and an atmospheric pressure range of 88 to 106kPa. When testing operation, it is necessary to confirm correct operation not only with the actual load that will be used, but also at the same ambient conditions as for actual operation.
3. The input circuitry does not incorporate a circuit protecting the SSR from being damaged due to a reversed connection. Make sure that the polarity is correct when connecting the input lines.
4. Only use the G3TC with loads that are within the rated values. Using the G3TC with loads outside the rated values may result in malfunction, damage, or burning.
5. Use a power supply within the rated frequency range. Using a power supply outside the rated frequency range may result in malfunction, damage, or burning.
6. No over-voltage absorption element is built in. Therefore, if the G3TC is connected to an inductive load, be sure to connect an over-voltage absorption element.
7. As protection against accidents due to short-circuiting, be sure to install protective devices, such as fuses on the power supply side.
8. Keep wiring separate from high-voltage power lines and use wires of an appropriate length, otherwise malfunction and damage may result due to induction.

9. For a DC inductive load, a diode should be connected in parallel with the load to absorb the counter electromotive force of the load.
10. For an I/O mounting rack that is installed horizontally, use the G3TC with loads that are within the following conditions.

**G3TC-OAC5, -OAC5A, -OAC15, -OAC15A, -OAC24, -OAC24A**



**G3TC-ODC5, -ODC15, -ODC24**



## ■ Operating and Storage Environments

### Operating Ambient Temperature

The rated value for the ambient operating temperature of the G3TC is for when there is no built-up heat. For this reason, under conditions where heat dissipation is not good due to poor ventilation, and where heat may build up easily, the actual temperature of the G3TC may exceed the rated value resulting in malfunction or burning.

When using the G3TC, design the system to allow heat dissipation sufficient to stay below the Load Current vs. Ambient Temperature characteristic curve. Note also that the ambient temperature of the G3TC may increase as a result of environmental conditions (e.g., climate, air-conditioning) and operating conditions (e.g., mounting in an airtight panel).

### Operating and Storage Locations

Do not use or store the G3TC in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.

1. Do not use or store in locations subject to direct sunlight.
2. Do not use in locations subject to ambient temperatures outside the range -30° to 80°C.
3. Do not use in locations subject to relative humidity outside the range 45% to 85% or locations subject to condensation as the result of severe change in temperature.
4. Do not store in locations subject to ambient temperatures outside the range -30° to 100°C.
5. Do not use or store in locations subject to corrosive or flammable gases.
6. Do not use or store in locations subject to dust (especially iron dust) or salts.
7. Do not use or store in locations subject to shock or vibration.
8. Do not use or store in locations subject to exposure to water, oil, or chemicals.

### Transportation

When transporting the G3TC, observe the following points. Not doing so may result in damage, malfunction, or deterioration of performance characteristics.

1. Do not drop the G3TC or subject it to severe vibrations or shock.
2. Do not transport the product if it is wet.

### Vibration and Shock

Do not subject the SSR to excessive vibration or shock. Otherwise the SSR may malfunction and internal components may be damaged.

All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at [http://www.components.omron.com/components/web/webfiles.nsf/sales\\_terms.html](http://www.components.omron.com/components/web/webfiles.nsf/sales_terms.html)

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

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

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**OMRON**<sup>®</sup>

**OMRON ELECTRONIC  
COMPONENTS LLC**

55 E. Commerce Drive, Suite B  
Schaumburg, IL 60173

**847-882-2288**

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