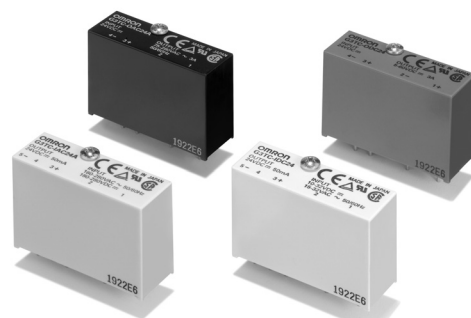


# Solid State Relays for Industrial I/O

## 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; marked with CE.



## 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

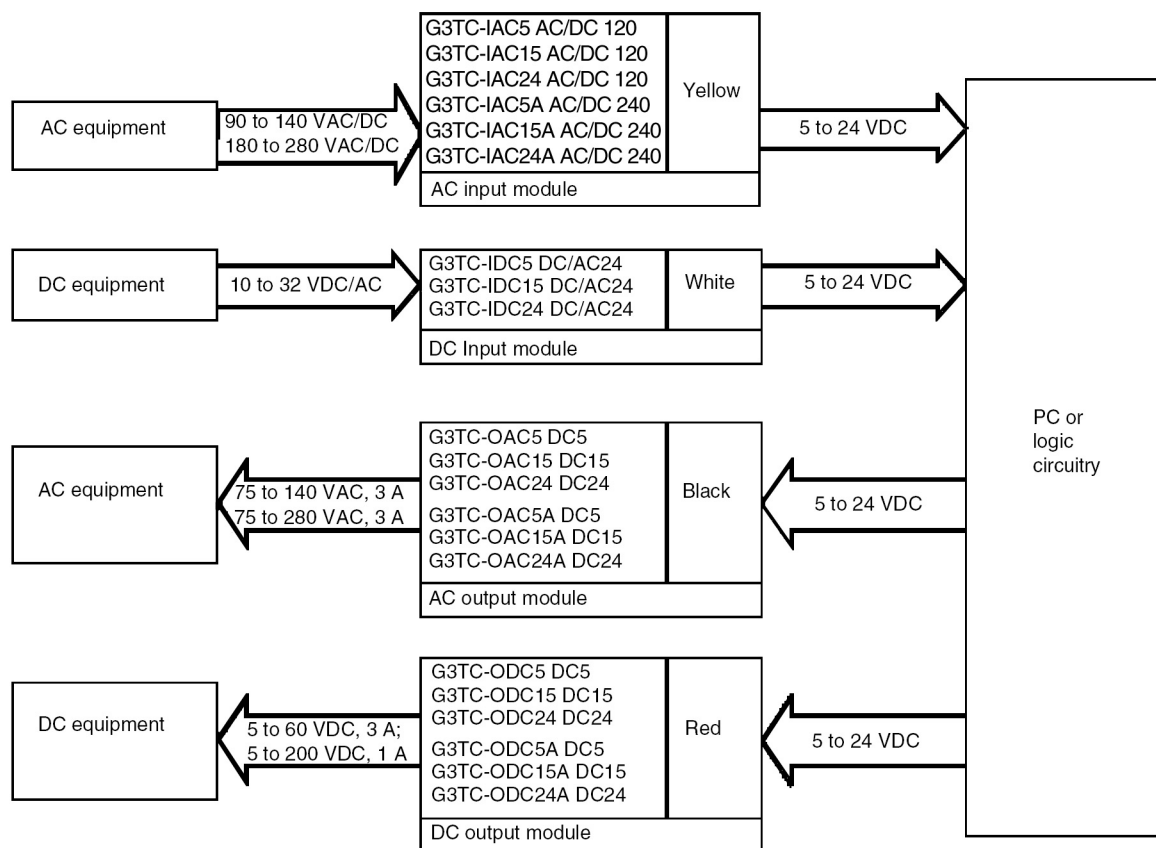
### ■ Output Module

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 (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 (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 (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 (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 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 k $\Omega$			69 k $\Omega$		

#### 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 $\Omega$	1 k $\Omega$	2.2 k $\Omega$	240 $\Omega$	1k $\Omega$	2.2k $\Omega$
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 $\mu$ 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.

## ■ 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 k $\Omega$		

#### 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 $\Omega$	1 k $\Omega$	2.2 k $\Omega$
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.

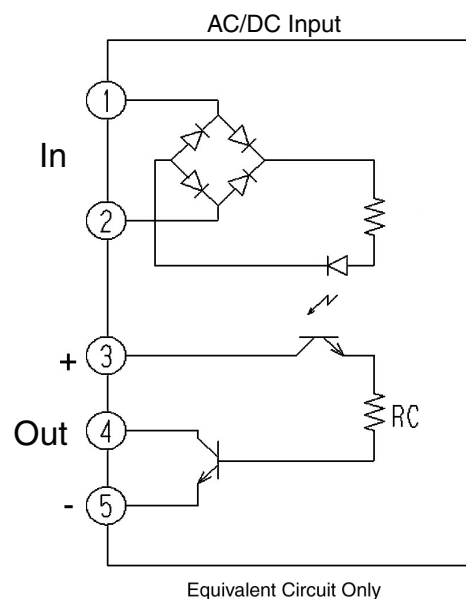
3. At rated load voltage, maximum rated load current, rated input voltage and 25°C.

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

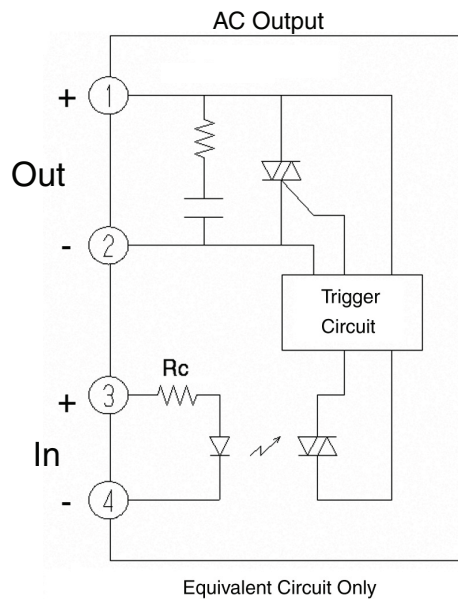
# Engineering Data

## Internal Circuit

### G3TC-IAC/IDC

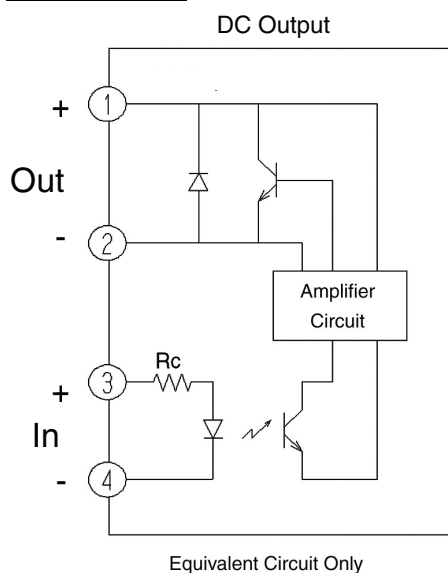


### G3TC-OAC



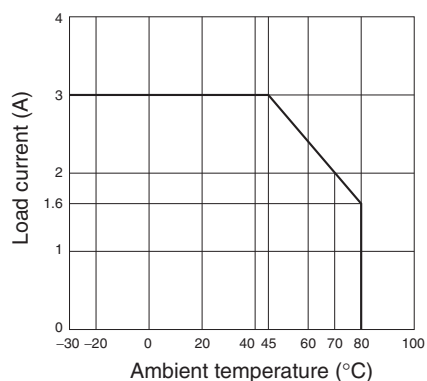
**Note:** Internal biasing circuitry is different between AC input and DC input modules

### G3TC-ODC

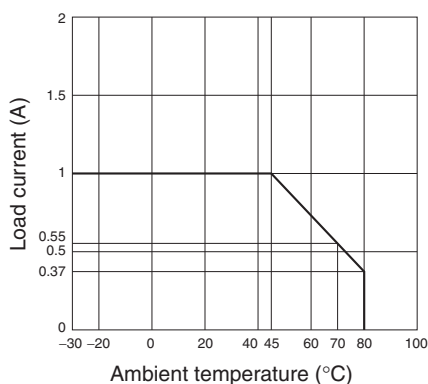


## Load Current vs. Ambient Temperature Characteristics

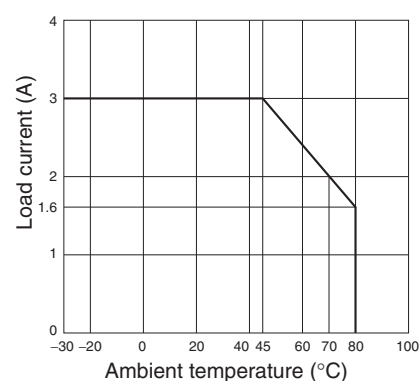
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G3TC-ODC24



G3TC-ODC5A  
G3TC-ODC15A  
G3TC-ODC24A



G3TC-OAC5  
G3TC-OAC15  
G3TC-OAC24

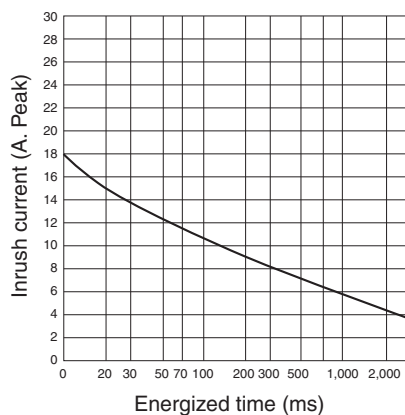


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G3TC-OAC24A

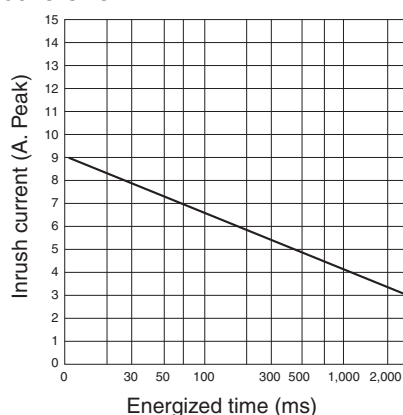
## Inrush Current Resitivity

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

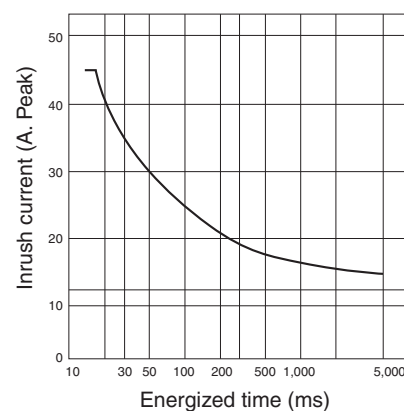
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G3TC-ODC15  
G3TC-ODC24



G3TC-ODC5A  
G3TC-ODC15A  
G3TC-ODC24A



G3TC-OAC5  
G3TC-OAC15  
G3TC-OAC24

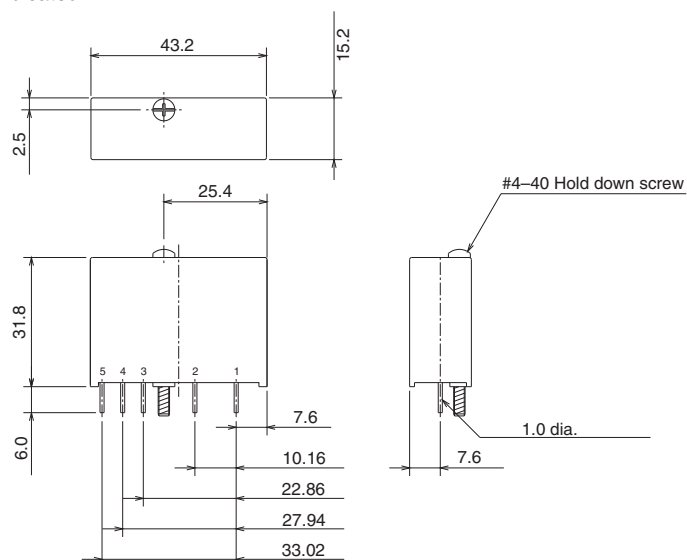
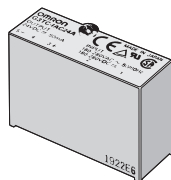


G3TC-OAC5A  
G3TC-OAC15A  
G3TC-OAC24A

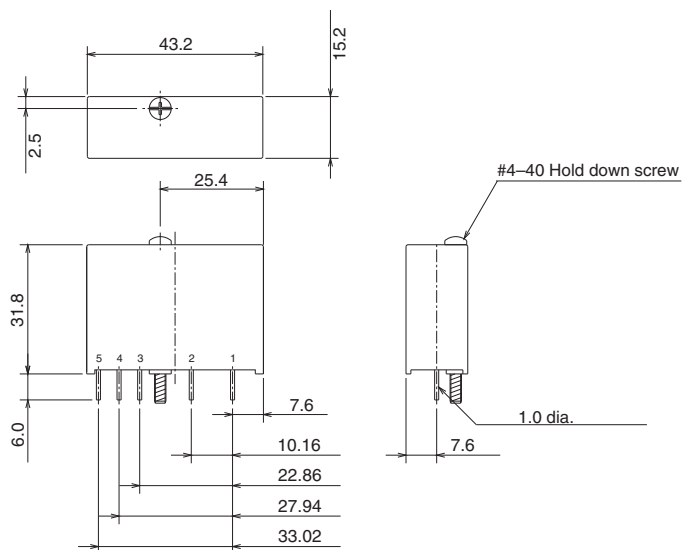
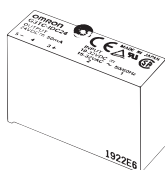
# Dimensions

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

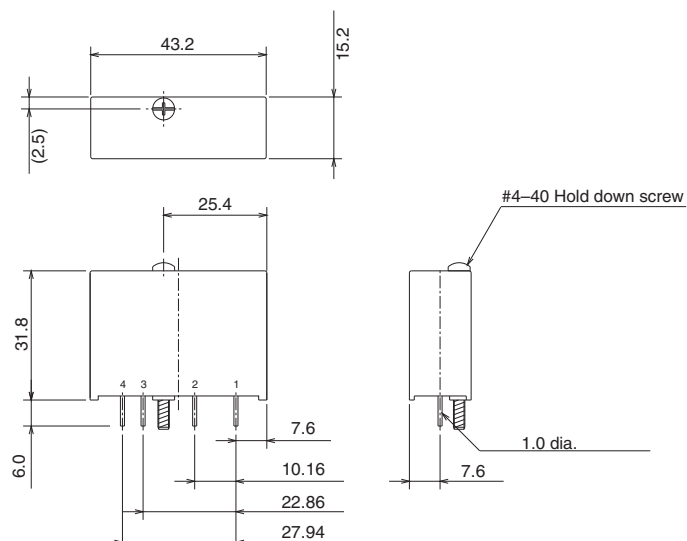
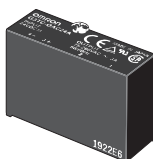
**G3TC-IAC5 G3TC-IAC5A**  
**G3TC-IAC15 G3TC-IAC15A**  
**G3TC-IAC24 G3TC-IAC24A**



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

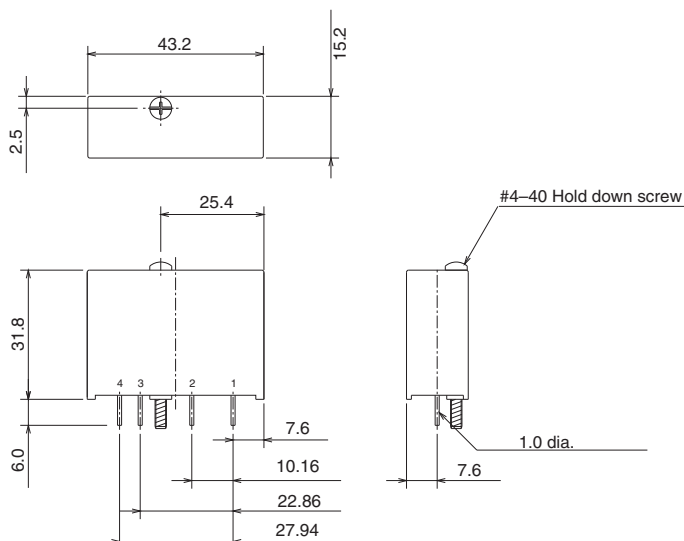
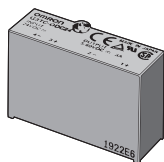


**G3TC-OAC5 G3TC-OAC5A**  
**G3TC-OAC15 G3TC-OAC15A**  
**G3TC-OAC24 G3TC-OAC24A**





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.

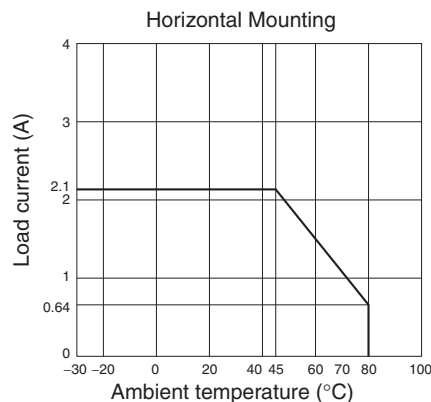
## Correct Use

### Before Actual Operation

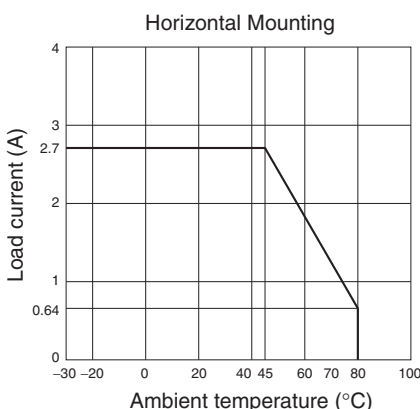
1. In actual operation, the G3TC may cause accidents that were unforeseeable at the theoretical stage. Therefore, it is necessary to test the G3TC under a variety of conditions that are possible. As for the characteristics of the G3TC, it is necessary to consider the differences between G3TC models.
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 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.

A large grid of 1000 small squares, each containing a unique combination of symbols (plus, minus, multiplication, division, equals, and less than or greater than signs) and numbers (0-9). The symbols and numbers are arranged in a way that they are not easily recognizable as a standard mathematical expression, but rather as a random sequence of characters. The grid is organized into 10 rows and 100 columns. The symbols used are: plus (+), minus (-), multiplication (x), division (/), equals (=), and less than or greater than (< >). The numbers used are: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. The grid is a visual representation of a large set of random data.

## Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

## Warranty and Limitations of Liability

### WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

### LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

## Application Considerations

### SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

## Disclaimers

### CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

### DIMENSIONS AND WEIGHTS

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

### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

### ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.



**OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS** • Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • [www.omron247.com](http://www.omron247.com)

**OMRON CANADA, INC. • HEAD OFFICE**

Toronto, ON, Canada • 416.286.6465 • 866.986.6766  
[www.omron247.com](http://www.omron247.com)

**OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE**

São Paulo, SP, Brasil • 55.11.2101.6300 • [www.omron.com.br](http://www.omron.com.br)

**OMRON ELECTRONICS MEXICO SA DE CV • HEAD OFFICE**

Apodaca, N.L. • 52.811.156.99.10 • 001.800.556.6766 • [mela@omron.com](mailto:mela@omron.com)

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**OMRON EUROPE B.V.** Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 [www.industrial.omron.eu](http://www.industrial.omron.eu)

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