

Slim Relay capable of switching up to 5 A, Ideal for use In Air Conditioners, Water Heaters, and Small Electrical Appliances

- Economical slim relay ideal for high density mounting
- Low power consumption (200mW)
- 10-kV impulse withstand voltage (between coil and contacts)
- UL recognized / CSA certified. VDE Approved.
- Tracking Resistance: CTI ≥ 250 V
- RoHS compliant



Ordering Information

■ List of Models

Models	Enclosure rating	Contact form	
G5T-1A	Flux protection	SPST-NO	

Note: When ordering, add the rated coil voltage to the model number.

Example: G5T-1A DC 24

Rated coil voltage

Model Number Legend

G5T-1 2 DC

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1. Number of Poles

1: 1pole

2. 2. Contact Form

A: SPST-NO

3. 3. Rated Coil Voltage

5, 12, 24

Specifications @ 23°C (coil resistance ± 10%)

■ Coil Ratings

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
5	40	125	75% max.	5% min.	110%	Approx. 200
12	16.7	720				
24	8.3	2880				

PCB Relay **G5T**

■ Contact Ratings

Rated load (resistive)	5 A at 250 VAC 5 A at 30 VDC
Rated carry current	5 A
Max. switching voltage	250 VAC, 30 VDC
Max. switching current	5 A
Max. switching capacity	1250 VA, 150 W
Minimum Permissible Load*	10 mA at 5 VDC

^{*}P level: λ_{60} = 0.1 X 10⁻⁶/operation

■ Characteristics

Contact resistance		100 m Ω max. (measured by voltage drop method using 1 A @ 5 VDC)	
Operate time		10 ms max.	
Release time		10 ms max.	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Dielectric strength		4,000 VAC, 50/60 Hz for 1 min. between coil and contacts 750 VAC, 50/60 Hz for 1 min. between contacts of same polarity	
Vibration resistance Destruction Malfunction		10 to 55 Hz, 1.5 mm double amplitude	
		10 to 55 Hz, 1.5 mm double amplitude	
Shock resistance	Destruction	1,000 m/s ² (approx.100 G)	
	Malfunction	100 m/s ² (approx. 10 G)	
Service Life	Mechanical	2,000,000 operations min. (at 18,000 operations/hr)	
Electrical (resistive load)		100,000 operations min. (3 A at 250 VAC, 30 VDC) 30,000 operations min. (5 A at 250 VAC, 30 VDC) (at 1,800 operations/hr)	
Ambient operating temperature		-40°C to 70°C (with no icing or condensation)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 3 g	

Note: 1. Data shown above are of initial value.

■ Approvals

UL Recognized (File No. E41515) / CSA Certified (File No. 1527954) - - Ambient Temp. = 40°C

Model	Coil rating	Contact rating
G5T-1A		5 A, 250 VAC (resistive), 6,000 cycles 5 A, 30 VDC (resistive), 6,000 cycles

VDE0435 🏝 (EN61810-1)

Model	Coil rating	Contact rating
G5T-1A		5 A, 250 VAC (cosφ = 1) 10,000 cycles 5 A, 30 VDC (L/R = 0 ms) 10,000 cycles 3 A, 250 VAC (cosφ = 1) 100,000 cycles

CQC (license No. 04001010419)

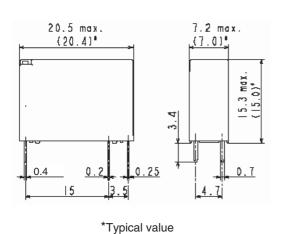
Model	Coil rating	Contact rating
G5T-1A		5 A, 250 VAC resistive,10,000 cycles 5 A, 30 VAC resistive,10,000 cycles

^{2.} Please avoid ultrasonic cleaning this relay.

Dimensions

Note: All units are in millimeters unless otherwise indicated.

G5T-1A



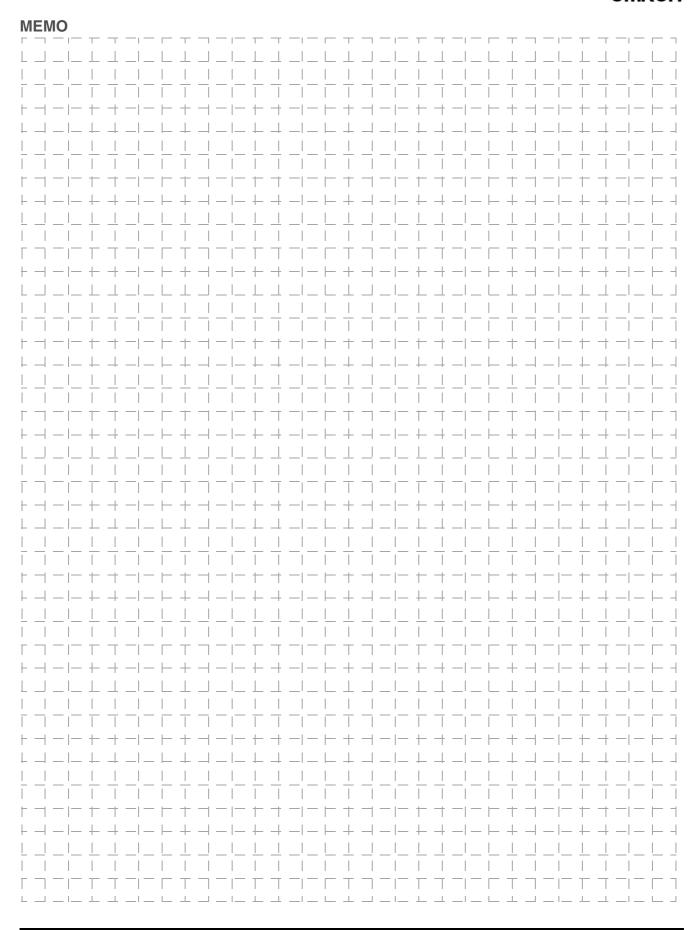
Terminal
Arrangement/Internal
Connections (Bottom View)

Tolerance: ±0.1mm
Unless specified

(1.05)

PRINT
MOUNTING HOLES
(BOTTOM VIEW)





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Omron Electronic Components, LLC

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- (d) Products:
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 (d) Systems, machines, and equipment that could present a risk to life or property.

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 Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED
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- thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an
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PCB Relay **G5T**

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RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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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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