

# Power PCB Relay G2R

- Creepage distance of 8.0 mm min. between coil and contact.
- Dual-winding latching type available.
- Plug-in and quick-connect terminals available (see G2R-S(S) data sheet).
- High sensitivity (360 mW) and high capacity (16 A) types available.
- Highly stable magnetic circuit for latching endurance and excellent resistance to vibration and shock.
- Safety-oriented design assuring high surge resistance: 10,000 V min. between coil and contacts.
- UL recognized / CSA certified. RoHS Complaint



## Ordering Information

To order: Select the part number and add the desired coil voltage rating (e.g., G2R-14-DC12).

### ■ Non-Latching

#### 1-Pole - PCB Types

| Type             | Contact material | Contact form | Construction | Model     |
|------------------|------------------|--------------|--------------|-----------|
| General purpose  | Ag alloy         | SPDT         | Semi-sealed  | G2R-1     |
|                  |                  |              | Sealed       | G2R-14    |
|                  |                  | SPST-NO      | Semi-sealed  | G2R-1A    |
|                  |                  |              | Sealed       | G2R-1A4   |
| High-capacity    |                  | SPDT         | Semi-sealed  | G2R-1-E   |
|                  |                  | SPST-NO      |              | G2R-1A-E  |
| High-sensitivity |                  | SPDT         | Sealed       | G2R-1-H   |
|                  |                  |              |              | G2R-14-H  |
|                  |                  | SPST-NO      | Semi-sealed  | G2R-1A-H  |
|                  |                  |              | Sealed       | G2R-1A4-H |

#### 1-Pole - Quick-connect Types

| Type                | Contact material | Contact form | Terminal      | Model    |
|---------------------|------------------|--------------|---------------|----------|
| Upper-mount bracket | Ag alloy         | SPDT         | Quick connect | G2R-1-T  |
|                     |                  | SPST-NO      |               | G2R-1A-T |

#### 2-Pole - PCB Types

| Type             | Contact material | Contact form | Construction | Model     |
|------------------|------------------|--------------|--------------|-----------|
| General purpose  | Ag alloy         | DPDT         | Semi-sealed  | G2R-2     |
|                  |                  |              | Sealed       | G2R-24    |
|                  |                  | DPST-NO      | Semi-sealed  | G2R-2A    |
|                  |                  |              | Sealed       | G2R-2A4   |
| High sensitivity |                  | DPDT         | Semi-sealed  | G2R-2-H   |
|                  |                  |              | Sealed       | G2R-24-H  |
|                  |                  | DPST-NO      | Semi-sealed  | G2R-2A-H  |
|                  |                  |              | Sealed       | G2R-2A4-H |

**Note:** 1. Bifurcated button available.

2. For individual product agency approvals consult factory.

3. Class B coil insulation available.

## ■ Latching

| Type               | Contact form | Construction | Model   |
|--------------------|--------------|--------------|---------|
| Dual coil latching | SPDT         | Semi-sealed  | G2RK-1  |
|                    | SPST-NO      |              | G2RK-1A |
|                    | DPDT         |              | G2RK-2  |
|                    | DPST-NO      |              | G2RK-2A |

## Specifications

### ■ Contact Data

Non-latching, semi-sealed general purpose and upper-mount bracket.

| Load                    | 1-pole type                                               |                                                                  | 2-pole type                                             |                                                                    |
|-------------------------|-----------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------|
|                         | Resistive load<br>(p.f. = 1)                              | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms)                      | Resistive load<br>(p.f. = 1)                            | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms)                        |
| Rated load              | 10 A at 250 VAC<br>10 A at 30 VDC<br>(8A at 250VAC/30VDC) | 7.5 A at 250 VAC<br>5 A at 30 VDC<br>(6A at 250VAC, 4A at 30VDC) | 5 A at 250 VAC<br>5 A at 30 VDC<br>(4A at 250VAC/30VDC) | 2 A at 250 VAC<br>3 A at 30 VDC<br>(1.5A at 250VAC, 2.5A at 30VDC) |
| Contact material        | Ag-Alloy                                                  |                                                                  |                                                         |                                                                    |
| Carry current           | 10 A (8A)                                                 |                                                                  | 5 A (4A)                                                |                                                                    |
| Max. operating voltage  | 380 VAC, 125 VDC                                          |                                                                  |                                                         |                                                                    |
| Max. operating current  | 10 A (8A)                                                 |                                                                  | 5 A (4A)                                                |                                                                    |
| Max. switching capacity | 2,500 VA, 300 W<br>(2,000 VA, 240W)                       | 1,875 VA, 150 W<br>(1,500 VA, 120W)                              | 1,250 VA, 150 W<br>(1,000 VA, 120 W)                    | 500 VA, 90 W<br>(375 VA, 75 W)                                     |
| Min permissible load    | 100 mA, 5 VDC                                             |                                                                  | 10 mA, 5 VDC                                            |                                                                    |

Note: Values in parenthesis are for sealed models.

#### Non-latching high capacity 1-pole type

| Load                    | Resistive load<br>(p.f. = 1)      | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms) |
|-------------------------|-----------------------------------|---------------------------------------------|
| Rated load              | 16 A at 250 VAC<br>16 A at 30 VDC | 8 A at 250 VAC<br>8 A at 30 VDC             |
| Contact material        | Ag-Alloy                          |                                             |
| Carry current           | 16 A                              |                                             |
| Max. operating voltage  | 380 VAC, 125 VDC                  |                                             |
| Max. operating current  | 16 A                              |                                             |
| Max. switching capacity | 4,000 VA, 480 W                   | 2,000 VA, 240 W                             |
| Min. permissible load   | 100 mA, 5 VDC                     |                                             |

#### Non-latching high-sensitivity

| Load                    | 1-pole type                     |                                             | 2-pole type                     |                                             |
|-------------------------|---------------------------------|---------------------------------------------|---------------------------------|---------------------------------------------|
|                         | Resistive load<br>(p.f. = 1)    | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms) | Resistive load<br>(p.f. = 1)    | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms) |
| Rated load              | 5 A at 250 VAC<br>5 A at 30 VDC | 2 A at 250 VAC<br>3 A at 30 VDC             | 3 A at 250 VAC<br>3 A at 30 VDC | 1 A at 250 VAC<br>1.50 A at 30 VDC          |
| Contact material        | Ag-Alloy                        |                                             |                                 |                                             |
| Carry current           | 5 A                             |                                             | 3 A                             |                                             |
| Max. operating voltage  | 380 VAC, 125 VDC                |                                             |                                 |                                             |
| Max. operating current  | 5 A                             |                                             | 3 A                             |                                             |
| Max. switching capacity | 1,250 VA, 150 W                 | 500 VA, 90 W                                | 750 VA, 90 W                    | 250 VA, 45 W                                |
| Min permissible load    | 100 mA, 5 VDC                   |                                             | 10 mA, 5 VDC                    |                                             |

Note: 1. P standard:  $\lambda_{60} = 0.10 \times 10^{-6}$  operation, for all models  
 2. For individual product agency approvals consult factory.

## Latching

| Load                    | 1-pole type                     |                                             | 2-pole type                     |                                             |
|-------------------------|---------------------------------|---------------------------------------------|---------------------------------|---------------------------------------------|
|                         | Resistive load<br>(p.f. = 1)    | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms) | Resistive load<br>(p.f. = 1)    | Inductive load<br>(p.f. = 0.4) (L/R = 7 ms) |
| Rated load              | 5 A at 250 VAC<br>5 A at 30 VDC | 3.50 A at 250 VAC<br>2.50 A at 30 VDC       | 3 A at 250 VAC<br>3 A at 30 VDC | 1.50 A at 250 VAC<br>2 A at 30 VDC          |
| Contact material        | Ag-Alloy                        |                                             |                                 |                                             |
| Carry current           | 5 A                             |                                             | 3 A                             |                                             |
| Max. operating voltage  | 380 VAC, 125 VDC                |                                             |                                 |                                             |
| Max. operating current  | 5 A                             |                                             | 3 A                             |                                             |
| Max. switching capacity | 1,250 VA, 150 W                 | 875 VA, 75 W                                | 750 VA, 90 W                    | 375 VA, 60 W                                |
| Min permissible load    | 100 mA, 5 VDC                   |                                             | 10 mA, 5 VDC                    |                                             |

**Note:** 1. P standard:  $\lambda_{60} = 0.10 \times 10^{-6}$  operation for all models  
2. For individual product agency approvals consult factory.

## Coil Data

### Non-latching DC coil

| Rated voltage<br>(VDC) | Rated current<br>(mA) | Coil<br>resistance<br>( $\Omega$ ) | Coil inductance<br>(ref. value) (H) |                | Pick-up<br>voltage | Dropout<br>voltage | Maximum<br>voltage              | Power<br>consumption<br>(mW) |
|------------------------|-----------------------|------------------------------------|-------------------------------------|----------------|--------------------|--------------------|---------------------------------|------------------------------|
|                        |                       |                                    | Armature<br>OFF                     | Armature<br>ON |                    |                    |                                 |                              |
| 3                      | 176                   | 17                                 | 0.07                                | 0.14           | 70% max.           | 15% min.           | 110% max.<br>at 70°C<br>(158°F) | Approx. 530                  |
| 5                      | 106                   | 47                                 | 0.20                                | 0.39           |                    |                    |                                 |                              |
| 6                      | 88.20                 | 68                                 | 0.28                                | 0.55           |                    |                    |                                 |                              |
| 12                     | 43.60                 | 275                                | 1.15                                | 2.29           |                    |                    |                                 |                              |
| 24                     | 21.80                 | 1,100                              | 4.27                                | 8.55           |                    |                    |                                 |                              |
| 48                     | 11.50                 | 4,170                              | 13.86                               | 22.71          |                    |                    |                                 |                              |
| 100                    | 5.30                  | 18,860                             | 67.20                               | 93.20          |                    |                    |                                 |                              |
| 110                    | 4.80                  | 22,900                             | 81.50                               | 110.60         |                    |                    |                                 |                              |

### Non-latching AC coil

| Rated voltage<br>(VAC) | Rated current<br>(mA)(at 60Hz) | Coil<br>resistance<br>( $\Omega$ ) | Coil inductance<br>(ref. value) (H) |                | Pick-up<br>voltage | Dropout<br>voltage | Maximum<br>voltage              | Power<br>consumption<br>(VA) |
|------------------------|--------------------------------|------------------------------------|-------------------------------------|----------------|--------------------|--------------------|---------------------------------|------------------------------|
|                        |                                |                                    | Armature<br>OFF                     | Armature<br>ON |                    |                    |                                 |                              |
| 6                      | 150                            | 16                                 | 0.05                                | 0.10           | 80% max.           | 30% min.           | 110% max.<br>at 70°C<br>(158°F) | Approx. 0.9                  |
| 12                     | 75                             | 65                                 | 0.19                                | 0.39           |                    |                    |                                 |                              |
| 24                     | 37.50                          | 260                                | 0.81                                | 1.55           |                    |                    |                                 |                              |
| 50                     | 18                             | 1,130                              | 3.25                                | 6.73           |                    |                    |                                 |                              |
| 100/(110)              | 9/(10.60)                      | 4,600                              | 13.34                               | 26.84          |                    |                    |                                 |                              |
| 120                    | 7.50                           | 6,500                              | 21                                  | 42             |                    |                    |                                 |                              |
| 200/(220)              | 4.5/(5.3)                      | 20,200                             | 51.3                                | 102            |                    |                    |                                 |                              |
| 220                    | 4.1                            | 25,000                             | 57.5                                | 117            |                    |                    |                                 |                              |
| 240                    | 3.80                           | 30,000                             | 65.50                               | 131            |                    |                    |                                 |                              |

### Non-latching high-sensitivity DC coil

| Rated voltage<br>(VDC) | Rated current<br>(mA) | Coil<br>resistance<br>( $\Omega$ ) | Coil inductance<br>(ref. value) (H) |                | Pick-up<br>voltage | Dropout<br>voltage | Maximum<br>voltage              | Power<br>consumption<br>(mW) |
|------------------------|-----------------------|------------------------------------|-------------------------------------|----------------|--------------------|--------------------|---------------------------------|------------------------------|
|                        |                       |                                    | Armature<br>OFF                     | Armature<br>ON |                    |                    |                                 |                              |
| 3                      | 120                   | 25                                 | 0.13                                | 0.26           | 70% max.           | 15% min.           | 110% max.<br>at 70°C<br>(158°F) | Approx. 360                  |
| 5                      | 71.40                 | 70                                 | 0.37                                | 0.75           |                    |                    |                                 |                              |
| 6                      | 60                    | 100                                | 0.53                                | 1.07           |                    |                    |                                 |                              |
| 12                     | 30                    | 400                                | 2.14                                | 4.27           |                    |                    |                                 |                              |
| 24                     | 15                    | 1,600                              | 7.80                                | 15.60          |                    |                    |                                 |                              |
| 48                     | 7.50                  | 6,400                              | 31.20                               | 62.40          |                    |                    |                                 |                              |

### Latching dual coil type - Set coil

| Rated voltage<br>(VDC) | Rated current<br>(mA) | Coil resistance<br>( $\Omega$ ) | Coil inductance<br>(ref. value) (H) |                | Pick-up<br>voltage | Dropout<br>voltage | Maximum<br>voltage              | Power<br>consumption<br>(mW) |
|------------------------|-----------------------|---------------------------------|-------------------------------------|----------------|--------------------|--------------------|---------------------------------|------------------------------|
|                        |                       |                                 | Armature<br>OFF                     | Armature<br>ON |                    |                    |                                 |                              |
| 3                      | 227                   | 10.80                           | 0.026                               | 0.052          | 70% max.           | 70% max.           | 110% max.<br>at 70°C<br>(158°F) | Approx. 850                  |
| 5                      | 167                   | 30                              | 0.073                               | 0.146          |                    |                    |                                 |                              |
| 6                      | 138                   | 43.50                           | 0.104                               | 0.208          |                    |                    |                                 |                              |
| 12                     | 70.60                 | 170                             | 0.42                                | 0.83           |                    |                    |                                 |                              |
| 24                     | 34.60                 | 694                             | 1.74                                | 3.43           |                    |                    |                                 |                              |

### Latching dual coil type - Reset coil

| Rated voltage<br>(VDC) | Rated current<br>(mA) | Coil resistance<br>( $\Omega$ ) | Coil inductance<br>(ref. value) (H) |                | Pick-up<br>voltage | Dropout<br>voltage | Maximum<br>voltage              | Power<br>consumption<br>(mW) |
|------------------------|-----------------------|---------------------------------|-------------------------------------|----------------|--------------------|--------------------|---------------------------------|------------------------------|
|                        |                       |                                 | Armature<br>OFF                     | Armature<br>ON |                    |                    |                                 |                              |
| 3                      | 200                   | 15                              | 0.001                               | 0.002          | 70% max.           | 70% max.           | 110% max.<br>at 70°C<br>(158°F) | Approx. 600                  |
| 5                      | 119                   | 42                              | 0.003                               | 0.006          |                    |                    |                                 |                              |
| 6                      | 100                   | 60                              | 0.005                               | 0.009          |                    |                    |                                 |                              |
| 12                     | 50                    | 240                             | 0.018                               | 0.036          |                    |                    |                                 |                              |
| 24                     | 25                    | 960                             | 0.079                               | 0.148          |                    |                    |                                 |                              |

**Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of  $\pm 10\%$ .

2. The operating characteristics are measured at a coil temperature of 23°C (73°F).

## ■ Characteristics

| Item                  |                        | Non-latching                                                                                                | Latching                                                                                                                                                  |
|-----------------------|------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact resistance    |                        | 100 m $\Omega$                                                                                              |                                                                                                                                                           |
| Operate (set) time    |                        | 15 ms. max.                                                                                                 | 20 ms max.                                                                                                                                                |
| Release (reset) time  |                        | AC: 10 ms max.; DC: 5 ms max.                                                                               | 20 ms max.                                                                                                                                                |
| Bounce time           | Operate                | ---                                                                                                         | Mean value approx. 3 ms                                                                                                                                   |
|                       | Release                | ---                                                                                                         | Mean value approx. 8 ms                                                                                                                                   |
| Operating frequency   | Mechanical             | 18,000 operations/hour                                                                                      |                                                                                                                                                           |
|                       | Electrical             | 1,800 operations/hour (under rated load)                                                                    |                                                                                                                                                           |
| Insulation resistance |                        | 1,000 M $\Omega$ min. (at 500 VDC)                                                                          |                                                                                                                                                           |
| Dielectric strength   |                        | 5,000 VAC, 50/60 Hz for 1 minute between coil and contacts                                                  |                                                                                                                                                           |
|                       |                        | 1,000 VAC, 50/60 Hz for 1 minute across contacts of same pole                                               |                                                                                                                                                           |
|                       |                        | 3,000 VAC, 50/60 Hz for 1 minute between contact sets, 2-pole non-latching                                  |                                                                                                                                                           |
|                       |                        | 1,000 VAC, 50/60 Hz for 1 minute between set and reset coils of dual coil latching                          |                                                                                                                                                           |
| Vibration             | Mechanical durability  | 10 to 55 Hz; 1.50 mm (0.06) double amplitude                                                                |                                                                                                                                                           |
|                       | Malfunction durability | 10 to 55 Hz; 1.50 mm (0.06) double amplitude                                                                |                                                                                                                                                           |
| Shock                 | Mechanical durability  | 1,000 m/s <sup>2</sup> (approx. 100G)                                                                       |                                                                                                                                                           |
|                       | Malfunction durability | 200 m/s <sup>2</sup> (approx. 20 G) when energized<br>100 m/s <sup>2</sup> (approx. 10 G) when de-energized | 500 m/s <sup>2</sup> (approx. 50 G) at set (1-pole)<br>200 m/s <sup>2</sup> (approx. 20G) at set (2-pole)<br>100 m/s <sup>2</sup> (approx. 10 G) at reset |
| Ambient temperature   |                        | -40 to 70°C (-40 to 158°F)                                                                                  |                                                                                                                                                           |
| Humidity              |                        | 5% to 85% RH                                                                                                |                                                                                                                                                           |
| Service life          | Mechanical             | 10,000,000 operations min.<br>DC: 20,000,000 operations min.<br>(at 18,000 operations/hour)                 | 10,000,000 operations min.<br>(at 18,000 operations/hour)                                                                                                 |
|                       | Electrical             | 100,000 operations min. (at 1,800 operations /hr) at rated load. See "Characteristics Data"                 |                                                                                                                                                           |
| Weight                |                        | Approx. 17 g (0.60 oz.)                                                                                     | Approx. 17 g.<br>(Approx 20g for quick-connect type)                                                                                                      |

**Note:** Data shown are of initial value.

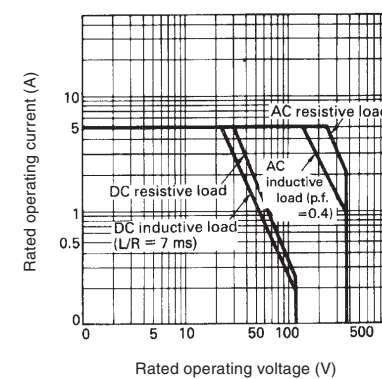
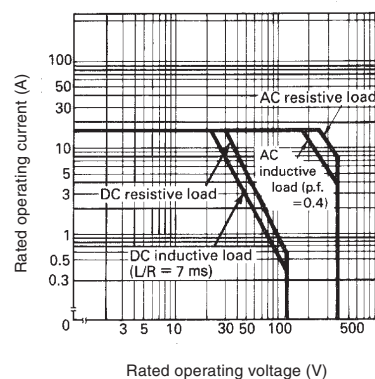
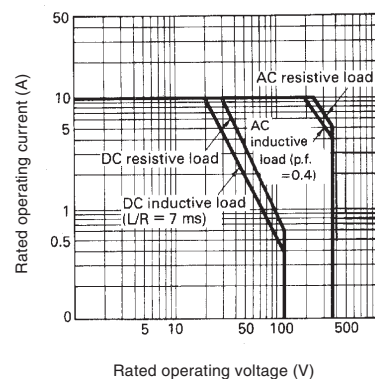
# ■ Characteristic Data

## Maximum Switching Capacity - Non-latching Types

PCB: Single-pole general purpose  
Semi-sealed  
Quick-connect: Single-pole single  
button

High capacity

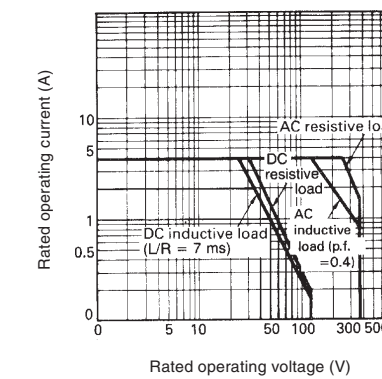
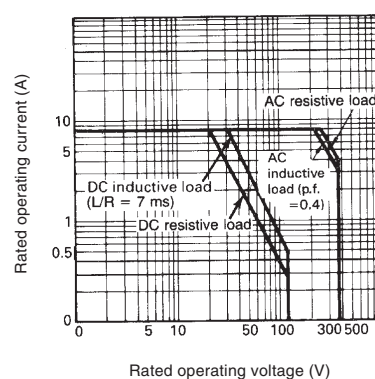
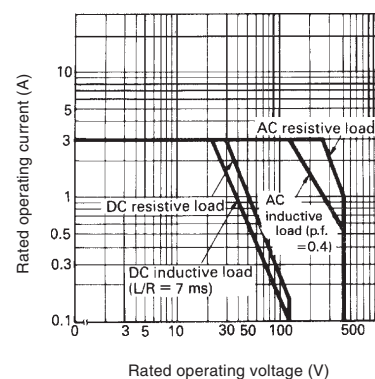
PCB: Single-pole high sensitivity  
Two-pole general purpose



PCB: Two-pole high sensitivity

PCB: Single-pole general purpose  
Sealed

PCB: Two-pole general purpose  
Sealed

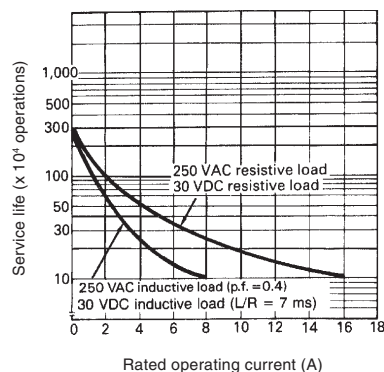
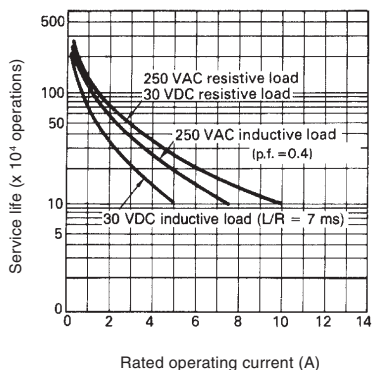


## Electrical Service Life - Non-latching Types

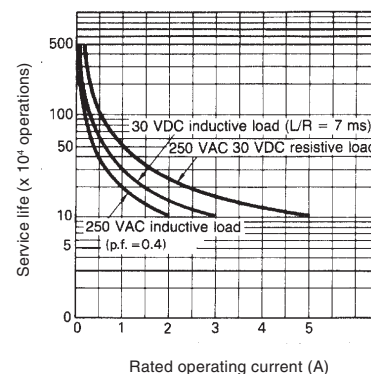
PCB: Single-pole general purpose  
Semi-sealed

High capacity

Quick-connect: Single-pole single  
button



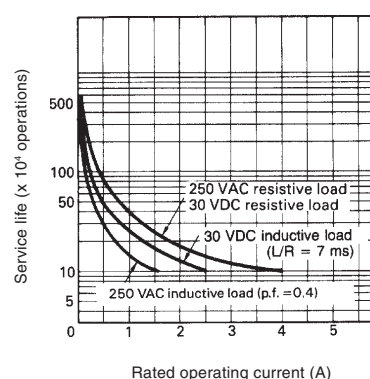
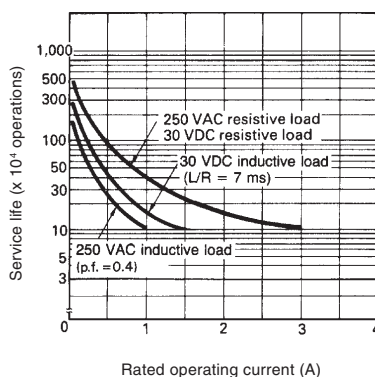
PCB: Single-pole high sensitivity  
Two-pole general purpose



PCB: Two-pole high sensitivity

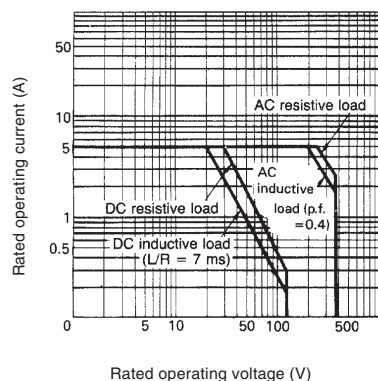
PCB: Single-pole general purpose  
Sealed

PCB: Two-pole general purpose  
Sealed



## Maximum Switching Capacity - Latching Types

One pole

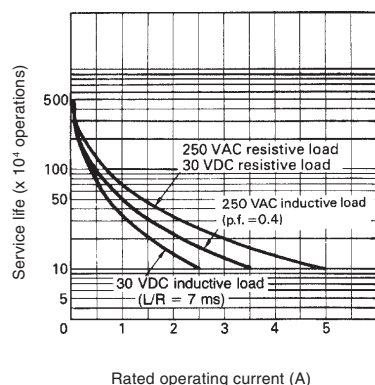


Two-pole



## Electrical Service Life - Latching Types

One pole



Two-pole



## Dimensions

Unit: mm (inch)

### ■ Non-latching

PCB Terminal: SPDT, general purpose & high sensitivity



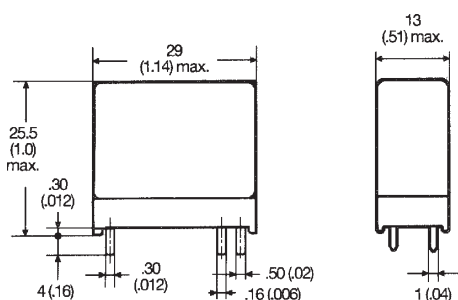
Terminal arrangement/  
Internal connections  
(Bottom view)



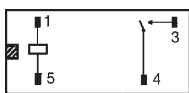
Mounting holes  
(Bottom view)



# PCB Terminal: SPST-NO, general purpose & high sensitivity



**Terminal arrangement/  
Internal connections**  
(Bottom view)

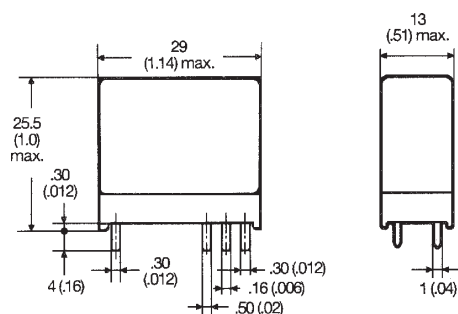


**Mounting holes**  
(Bottom view)



- Note:** 1. and indicate mounting orientation marks.  
2. A tolerance of  $\pm 0.10$  (0.004) applies to the above dimensions.

## PCB Terminal: SPDT, high capacity



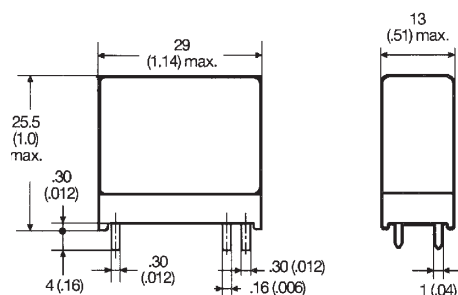
**Terminal arrangement/  
Internal connections**  
(Bottom view)



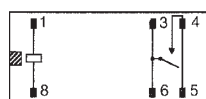
**Mounting holes**  
(Bottom view)



## PCB Terminal: SPST-NO, high capacity



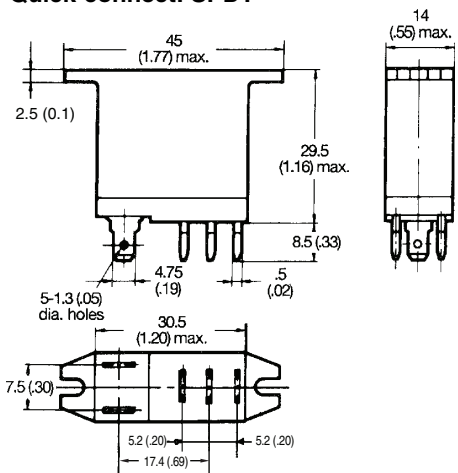
**Terminal arrangement/  
Internal connections**  
(Bottom view)



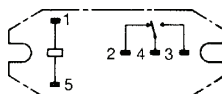
**Mounting holes**  
(Bottom view)



## Quick-connect: SPDT



**Terminal arrangement/  
Internal connections**  
(Bottom view)



**Mounting holes**  
(Bottom view)



- Note:** 1. and indicate mounting orientation marks.  
2. A tolerance of  $\pm 0.10$  (0.004) applies to the above dimensions.

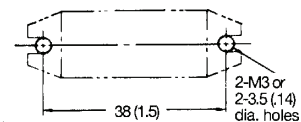
# Quick-connect: SPST-NO



Terminal arrangement/  
Internal connections  
(Bottom view)



Mounting holes  
(Bottom view)



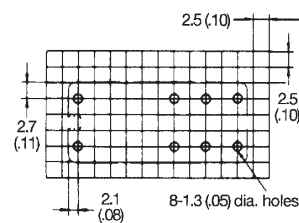
## PCB Terminal: DPDT, general purpose & high sensitivity



Terminal arrangement/  
Internal connections  
(Bottom view)



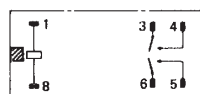
Mounting holes  
(Bottom view)



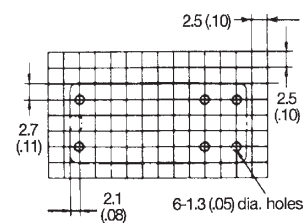
## PCB Terminal: DPST-NO, general purpose & high sensitivity



Terminal arrangement/  
Internal connections  
(Bottom view)



Mounting holes  
(Bottom view)



- Note:** 1.  and  indicate mounting orientation marks.  
2. A tolerance of  $\pm 0.10$  (0.004) applies to the above dimensions.

# ■ Latching

## SPDT, Dual coil latching G2RK-1



Dual coil  
(Bottom view)



Dual coil  
(Bottom view)



## SPST-NO, Dual coil latching G2RK-1A



Dual coil  
(Bottom view)



Dual coil  
(Bottom view)



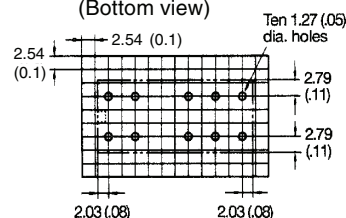
## DPDT, Dual coil latching G2RK-2



Dual coil  
(Bottom view)



Dual coil  
(Bottom view)



## DPST-NO, Dual coil latching G2RK-2A



Dual coil  
(Bottom view)



Dual coil  
(Bottom view)



Note: 1. and indicate mounting orientation marks.

2. A tolerance of  $\pm 0.10$  (0.004) applies to the above dimensions.

## ■ Approvals

UL Recognized (File No. E41643) / CSA Certified (File No. 31928)

| Type                                | Coil rating                 | Contact ratings                                    | Number of test operations |
|-------------------------------------|-----------------------------|----------------------------------------------------|---------------------------|
| G2R-1(A)<br>G2R-1(A)4<br>G2R-1(A)-H | 3 to 110 VDC<br>3 to 240VAC | 10A , 30 VDC (Resistive), 40°C                     | 100 x 10 <sup>3</sup>     |
|                                     |                             | 10A , 250 VAC (General purpose), 40°C              |                           |
|                                     |                             | 10A , 277 VAC (General purpose), 40°C              | 6 x 10 <sup>3</sup>       |
|                                     |                             | TV-3 , 120 VAC (N.O. contact) , 40°C               |                           |
|                                     |                             | 600WT, 120VAC (Tungsten), 40°C                     | 25 x 10 <sup>3</sup>      |
|                                     |                             | 1/3 HP , 125 VAC (N.O. contact), 70°C              | 30 x 10 <sup>3</sup>      |
|                                     |                             | 1/2 HP , 277 VAC , 40°C                            | 6 x 10 <sup>3</sup>       |
|                                     |                             | TV-8 , 120 VAC (N.O. contact , ASI contacts), 40°C | 25 x 10 <sup>3</sup>      |
|                                     |                             | B300 (Pilot duty), 60°C                            | 30 x 10 <sup>3</sup>      |
| G2R-1(A)-E                          | 3 to 110 VDC<br>3 to 240VAC | 16A , 30 VDC (Resistive), 40°C                     | 6 x 10 <sup>3</sup>       |
|                                     |                             | 16A , 250 VAC (General purpose), 40°C              | 30 x 10 <sup>3</sup>      |
|                                     |                             | 360 WT , 120 VAC (Tungsten), 40°C                  | 25 x 10 <sup>3</sup>      |
|                                     |                             | TV-3 , 120 VAC , 40°C                              |                           |
|                                     |                             | 1HP , 240 VAC, 40°C                                | 6 x 10 <sup>3</sup>       |
|                                     |                             | TV-8 , 120 VAC (N.O. contact), 40°C                | 25 x 10 <sup>3</sup>      |
| G2R-2(A)<br>G2R-2(A)4<br>G2R-2(A)-H | 3 to 110 VDC<br>3 to 240VAC | 10A , 30 VDC (Resistive), 40°C                     | 50 x 10 <sup>3</sup>      |
|                                     |                             | 10A , 277 VAC (General purpose), 40°C              | 20 x 10 <sup>3</sup>      |
|                                     |                             | 5A , 250 VAC (General purpose), 70°C               | 100 x 10 <sup>3</sup>     |
|                                     |                             | TV-3 , 120 VAC (N.O. contact), 40°C                | 25 x 10 <sup>3</sup>      |
|                                     |                             | 1/6 HP , 120 VAC, 40°C                             | 6 x 10 <sup>3</sup>       |
|                                     |                             | 1/3 HP , 265 VAC, 40°C                             | 30 x 10 <sup>3</sup>      |
|                                     |                             | 250 VA , 120 VAC (Pilot duty), 70°C                |                           |
|                                     |                             | B300 (Pilot duty), 40°C                            | 6 x 10 <sup>3</sup>       |
| G2RK-1(A)                           | 3 to 24 VDC                 | 10A , 30 VDC (Resistive), 40°C                     | 6 x 10 <sup>3</sup>       |
|                                     |                             | 10A , 250 VAC (General use), 40°C                  |                           |
|                                     |                             | TV-3 (N.O. contact), 40°C                          | 25 x 10 <sup>3</sup>      |
|                                     |                             | 1/2 HP , 250 VAC, 40°C                             | 6 x 10 <sup>3</sup>       |
|                                     |                             | A300 (Pilot duty), 40°C                            |                           |
| G2RK-2(A)                           | 3 to 24 VDC                 | 5A , 30 VDC (Resistive), 40°C                      | 6 x 10 <sup>3</sup>       |
|                                     |                             | 5A , 250 VAC (General use), 40°C                   |                           |
|                                     |                             | TV-3 (N.O. contact), 40°C                          | 25 x 10 <sup>3</sup>      |
|                                     |                             | 1/6 HP , 120 VAC, 40°C                             | 6 x 10 <sup>3</sup>       |
|                                     |                             | 1/3 HP , 240 VAC, 40°C                             |                           |
|                                     |                             | B300 (Pilot duty), 40°C                            |                           |

**Note:** 1. The rated values approved by each of the safety standards (e.g., UL and CSA) may be different from the performance characteristics individually defined in this catalog.

2. In the interest of product improvement, specifications are subject to change.

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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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