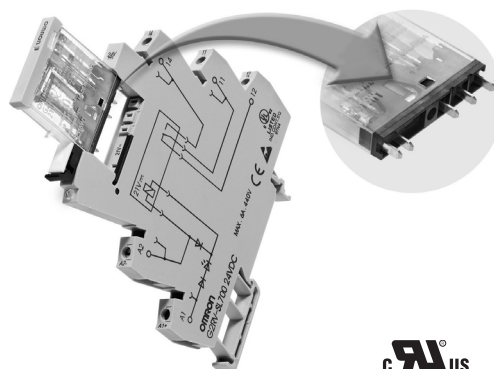


Slim Relay G2RV

Industrial Slim Relay Rated at 6 Amps

- Large plug-in terminals for reliable connection.
- LED indicator, clear case, and mechanical flag allows easy and immediate visual operation verification.
- Has a maximum switching voltage of 440 VAC.
- Slim outline to save space in high volume rack and PLC applications.
- Low power consumption for system energy savings.



Model Number Structure

Model Number Legend

G2RV-SL □□□ - □
1 2 3 4 5

1. Auxiliary Type Designation

SL: Slim relay and socket combination

2. Wire Connection

- 7: Screw terminals
- 5: Push-in terminals

3. Relay LED

0: Without LED

4. Relay Pushbutton

0: Without pushbutton

5. Input Voltage

(Complete part numbers listed in the Relay and Socket Combinations Chart below)

Note: LED indicator standard feature on Socket.

Ordering Information

List of Models

| Classification | | Enclosure rating | Input voltage | Type of connection | Contact form |
|-------------------|-----------------|------------------|---------------|--------------------|--------------|
| | | | | | SPDT |
| Plug-in terminals | General-purpose | Unsealed | AC/DC | Screw terminals | G2RV-SL700 |
| | | | | Push-in terminals | G2RV-SL500 |

Relay and Socket Combinations

| Input voltage | Screw terminals | Push-in terminals |
|---------------|-----------------------|-----------------------|
| 12 VDC | G2RV-SL700-DC12(DC11) | G2RV-SL500-DC12(DC11) |
| 24 VDC | G2RV-SL700-DC24(DC21) | G2RV-SL500-DC24(DC21) |
| 24 VAC/DC | G2RV-SL700-AC/DC24 | G2RV-SL500-AC/DC24 |
| 48 VAC/DC | G2RV-SL700-AC/DC48 | G2RV-SL500-AC/DC48 |
| 110 VAC | G2RV-SL700-AC110 | G2RV-SL500-AC110 |
| 230 VAC | G2RV-SL700-AC230 | G2RV-SL500-AC230 |



Note: Relay and Socket Combinations are cUL_{US} listed.

Specifications

■ Coil Ratings @ 23°C

| Rated voltage | Rated current | | Operate voltage | Release voltage | Power consumption | | Input voltage | |
|---------------|---------------|-------|-----------------|--------------------|--------------------|-----------------|---------------|-----------------|
| | AC | | | | % of rated voltage | AC (VA) Approx. | | DC (mW) Approx. |
| | 50 Hz | 60 Hz | DC | % of rated voltage | | | | |
| 12 VDC | --- | --- | 80% max. | 10% min. | --- | 300 mW | ±10% | |
| 24 VDC | --- | --- | | | --- | 300 mW | | |
| 24 VAC/DC | 21.1 | 22.5 | | | 13.0 | 0.5 VA | | 300 mW |
| 48 VAC/DC | 8.5 | 9.0 | | | 5.2 | 0.4 VA | | 250 mW |
| 110 VAC | 7.1 | 7.5 | | | --- | 0.8 VA | | --- |
| 230 VAC | 7.3 | 7.9 | | | --- | 1.7 VA | | --- |

■ Contact Ratings

| | | |
|--------------------------|---|---|
| Number of poles | 1 pole | |
| Load | Resistive load (cos φ = 1) | Inductive load (cos φ = 0.4, L/R = 7 ms) |
| Rated load | 6 A at 250 VAC; 6 A at 30 VDC | 2.5 A at 250 VAC; 2 A at 30 VDC |
| Rated carry current | 6 A | |
| Max. switching voltage | 400 VAC, 125 VDC | |
| Max. switching current | 6 A | |
| Max. switching power | 1,500 VA 180 W | 500 VA 60 W |
| Minimum permissible load | 10 mA at 5 VDC : P level: λ ₆₀ = 0.1 x 10 ⁻⁶ /operation | |

■ Characteristics

| Item | 1 pole |
|--------------------------|---|
| Contact resistance | 100 mΩ max. |
| Operate (set) time | 20 ms max. |
| Release time | 40 ms max. |
| Max. operating frequency | Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load) |
| Insulation resistance | 1,000 MΩ min. (at 500 VDC) |
| Dielectric strength | 4,000 VAC, 50/60 Hz for 1 min between coil and contacts 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity |
| Vibration resistance | Destruction: 10 to 55 Hz, 1.0 mm double amplitude Malfunction: 10 to 55 Hz, 1.0 mm double amplitude |
| Shock resistance | Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 200 m/s ² (approx. 20G) when energized; 100 m/s ² (approx. 10G) when not energized |
| Life expectancy | Mechanical: 5,000,000 operations min. Electrical: 100,000 typical; NO 70,000 operations min.; NC 50,000 operations min. |
| Ambient temperature | Operating: -40°C to 55°C (with no icing or condensation) |
| Ambient humidity | Operating: 5% to 85% |
| Weight | Approx. 35 g |
| Overvoltage category | III |
| Pollution degree | 2 |
| Contact Material | AgSnIn |
| Creepage distance | 7.0 mm |
| Clearance distance | 5.5 mm |

Note: Data shown are of initial values.