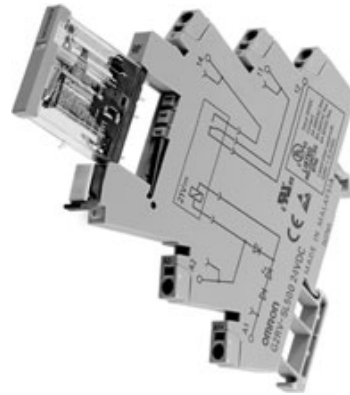


Slim Relay G2RV

The World's First Industrial Slim Relay

- Large plug-in terminals for reliable connection.
- LED indicator and mechanical flag to check operation.
- Transparent housing enables checking relay condition.
- Slim outline to save space.
- Push-in terminals and accessories for easy wiring.



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

Note: LED indicator available on socket.

4. Relay Pushbutton

0: Without pushbutton

5. Input Voltage

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-SL700-12 VDC	G2RV-SL500-12 VDC
24 VDC	G2RV-SL700-24 VDC	G2RV-SL500-24 VDC
24 VAC/DC	G2RV-SL700-24 VAC/DC	G2RV-SL500-24 VAC/DC
48 VAC/DC	G2RV-SL700-48 VAC/DC	G2RV-SL500-48 VAC/DC
110 VAC	G2RV-SL700-110 VAC	G2RV-SL500-110 VAC
230 VAC	G2RV-SL700-230 VAC	G2RV-SL500-230 VAC

Specifications

■ Input Ratings

Rated voltage	Rated current ^{*1}			Must operate voltage	Must release voltage	Power consumption		Input voltage
	AC		DC			% of rated voltage	AC (VA) Approx.	DC (mW) Approx.
	50 Hz	60 Hz						
12 VDC	---	---	27.2 mA	80%	10%	---	300 mW	±10%
24 VDC	---	---	13.3 mA			---	300 mW	
24 VAC/DC	21.1 mA	22.5 mA	13.0 mA			0.5 VA	300 mW	
48 VAC/DC	8.5 mA	9.0 mA	5.2 mA			0.4 VA	250 mW	
110 VAC	7.1 mA	7.5 mA	---			0.8 VA	---	
230 VAC	7.3 mA	7.9 mA	---			1.7 VA	---	
						---	---	

*1) Rated currents are measured at 23 degrees Celsius (ambient)

■ Contact Ratings

Number of poles	1 pole	
Load	Resistive load (cosφ = 1)	Inductive load (cosφ = 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
Failure rate (reference value)	10mA at 5VDC (P level)	

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}/\text{operation}$

■ 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 to 10 Hz, 0.50 mm single amplitude (1.0 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.50 mm single amplitude (1.0 mm double amplitude)
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 200 m/s ² when energized; 100 m/s ² when not energized
Endurance	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	Ag3SnIn
Creepage distance	7.0 mm
Clearance distance	5.5 mm

Note: Values in the above table are the initial values.