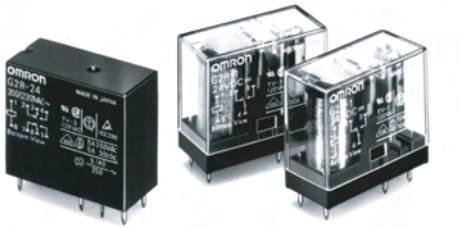
A Power Relay for a Variety of Purposes with Various Models

- ROHS compliant
- Conforms to EN 61810-1, UL508, CSA22.2, SEV, SEMKO.
- Meets EN60335-1 requirements for household products.
- Clearance and creepage distance: 8 mm/8 m.
- Models with CTI250 material available.
- High-sensitivity (360 mW) and high-capacity (16 A) types available.
- Double-winding latching type available.



Ordering Information

Classification		Enclosure Ratings	Coil Ratings	Contact Form			
				SPST-NO	SPDT	DPST-NO	DPDT
PCB terminal	General-purpose	Flux protection	AC/DC	G2R-1A	G2R-1	G2R-2A	G2R-2
		Fully sealed		G2R-1A4	G2R-14	G2R-2A4	G2R-24
	Bifurcated contact	Flux protection	DC	G2R-1AZ	G2R-1Z	–	–
		Fully sealed		G2R-1AZ4	G2R-1Z4	–	–
	High-capacity	Flux protection	AC/DC	G2R-1A-E	G2R-1-E	–	–
	High-sensitivity	Flux protection	DC	G2R-1A-H	G2R-1-H	G2R-2A-H	G2R-2-H
	Double-winding latching	Flux protection		G2RK-1A	G2RK-1	G2RK-2A	G2RK-2
Quick connect (upper bracket mounting)	General-purpose	Unsealed	AC	G2R-1A-T	G2R1-T	–	–
			DC			–	–

Note: 1. When ordering, add the rated coil voltage to the model number.
Example: G2R-1A 12 VDC
Rated coil voltage

2. Models with CTI250 material are also available.
Contact your OMRON representative for more details.

Model Number Legend

G2R □-□ □ □ □-□ □-□ □VDC
1 2 3 4 5 6 7 8 9

1. Relay Function
None: Single-side stable
K: Double-winding latching

2. Number of Poles
1: 1 pole
2: 2 poles

3. Contact Form
None: □PDT
A: □PST-NO

4. Contact Type
None: Single
Z: Bifurcated

5. Enclosure Ratings
None: Flux protection
4: Fully sealed

6. Terminals
None: Straight PCB
T: Quick-connect (upper bracket mounting)

7. Classification
None: General-purpose
E: High-capacity
H: High-sensitivity

8. Safety Standards
None: UL/CSA/EN/SEV/TÜV
SKVD: UL/CSA/EN/SEV/TÜV/SEMKO

9. Rated Coil Voltage
Refer to Coil Ratings

Specifications

■ Coil Ratings

Rated voltage		12 VAC	24 VAC	100/(110) VAC	120 VAC	200/(220)VAC	220 VAC	230 VAC	240 VAC
Rated Current	50Hz	93 mA	46.5 mA	11 mA	9.3 mA	5.5 mA	5.1 mA	4.7 mA	4.7 mA
	60Hz	75 mA	37.5 mA	9/(10.6) mA	7.5 mA	4.5 (5.3) mA	4.1 mA	3.8 mA	3.8 mA
Coil resistance		65 Ω	260 Ω	4,600 Ω	6,500 Ω	20,200 Ω	25,000 Ω	26,850	30,000 Ω
Coil inductance	Armature OFF	0.19	0.81	13.34	21	51.3	57.5	62	65.5
(H) (ref. value)	Armature ON	0.39	1.55	26.84	42	102	117	124	131
Must operate voltage		80% max. of rated voltage							
Must release voltage		30% min. of rated voltage							
Max. voltage		140% of rated voltage (at 23°C)							
Power consumption		Approx. 0.9 VA at 60 Hz (approx. 0.7 VA at 60 Hz)							

Rated voltage		5 VDC	6 VDC	12 VDC	24 VDC	48 VDC	100 VDC
Rated current (50/60Hz)		106 mA	88.2 mA	43.6 mA	21.8 mA	11.5 mA	5.3 mA
Coil resistance		47 Ω	68 Ω	275 Ω	1,100 Ω	4,170 Ω	18,860 Ω
Coil inductance	Armature OFF	0.20	0.28	1.15	4.27	13.86	67.2
(H) (ref. value)	Armature ON	0.39	0.55	2.29	8.55	27.71	93.2
Must operate voltage		70% max. of rated voltage					
Must release voltage		15% min. of rated voltage					
Max. voltage		170% of rated voltage (at 23°C)					
Power consumption		Approx. 0.53 W					