PCB Power Relay - G2R

High-sensitivity Relays

Rated voltage		5 VDC	6 VDC	12 VDC	24 VDC	48 VDC		
Rated current (50/60Hz) (see Note. 1)		71.4 mA	60 mA	30 mA	15 mA	7.5 mA		
Coil resistance (see Note. 1)		70 Ω	100 Ω	400 Ω	1,600 Ω	6,400 Ω		
Coil inductance	Armature OFF	0.37	0.53	2.14	7.80	31.20		
(H) (ref. value)	Armature ON	0.75	1.07	4.27	15.60	62.40		
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. 0.36 W						

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of +15%/_20% (AC rated current) or ±10% (DC coil resistance)

- 2. Operating characteristics are measured at a coil temperature of 23°C
- 3. Depending on the type of relay, some relays do not have coil specifications. Contact your Omron representative for more details.

Double-winding Latching Relays

Rated voltage			5 VDC	6 VDC	12 VDC	24 VDC	
Set Coil	Coil resistance (see note 1.)		167 mA	138 mA	70.6 mA	34.6 mA	
			30 Ω	43.5 Ω	170 Ω	694 Ω	
			0.073	0.104	0.42	1.74	
	(H) (ref. value)	Armature ON	0.146	0.208	0.83	3.43	
Reset Coil Rated current Coil resistance		119 mA	100 mA	50 mA	25 mA		
		42 Ω	60 Ω	240 Ω	960 Ω		
	Coil inductance	Armature OFF	0.003	0.005	0.018	0.079	
	(H) (ref. value)	Armature ON	0.006	0.009	0.036	0.148	
Must set voltage			70% max. of rated voltage				
Must reset voltage			70% max. of rated voltage				
Max. voltage			140% of rated voltage (at 23°C)				
Power consumption			Set coil: Approx. 850 mW; Reset coil: Approx. 600 mW				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

^{2.} Operating characteristics are measured at a coil temperature of 23°C.

PCB Power Relay - G2R

■ Contact Ratings

PCB/Flux Protection, Plug-in, Quick-connect Terminal Relays

Item	Gene	ral-purpose, qu	High-capacity					
Number of poles	1 pole		2 poles		1 pole			
Load	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)		
Rated Load	10 A at 250 VAC; 10 A at 30 VDC	7.5 A at 250 VAC; 5 A at 30 VDC	5 A at 250 VAC; 5 A at 30 VDC	2 A at 250 VAC; 3 A at 30 VDC	16 A at 250 VAC; 16 A at 30 VDC	8 A at 250 VAC; 8 A at 30 VDC		
Contact material	AgSnIn							
Rated carry current	10 A		5 A		16 A			
Max. switching voltage	e 380 VAC, 125 VDC		380 VAC, 125 VDC		380 VAC, 125 VDC			
Max. switching current	10 A		5 A		16 A			
Max. switching power	2,500 VA, 300 W	1,875 VA, 150 W	1,250 VA, 150 W	500 VA, 90 W	4,000 VA, 480 W	2,000 VA, 240 W		
Failure rate (reference value)	100 mA at 5 VDC		10 mA at 5 VDC		100 mA at 5 VDC			

Note: 1. P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation.

PCB/Flux Protection Relays

Item	Bifurcated	d contacts	High-sensitivity				
Number of poles	mber of poles 1 pole		1 pole		2 poles		
Load	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4; L/R = 7 ms)	
Rated Load	5 A at 250 VAC; 5 A at 30 VDC	2 A at 250 VAC; 3 A at 30 VDC	5 A at 250 VAC; 5 A at 30 VDC	2 A at 250 VAC; 3 A at 30 VDC	3 A at 250 VAC; 3 A at 30 VDC	1 A at 250 VAC; 1.5 A at 30 VDC	
Rated carry current	5 A		5 A		3 A		
Max. switching voltage 380 VAC, 125 VDC		380 VAC, 125 VDC		380 VAC, 125 VDC			
Max. switching current	5 A		5 A		3 A		
Max. switching power	1,250 VA, 150 W	500 VA, 90 W	1,250 VA, 150 W	500 VA, 90 W	750 VA, 90 W	250 VA, 45 W	
Failure rate (reference value)	1 mA at 5 VDC		100 mA at 5 VDC		10 mA at 5 VDC		

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