



# Relays & Solenoids

## OMRON\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



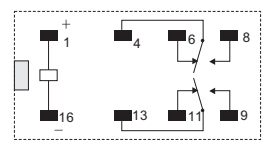
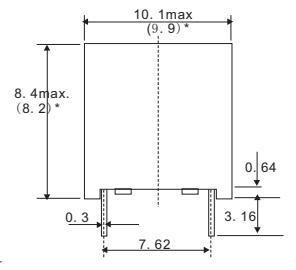
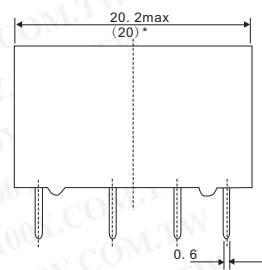
- High sensitivity can be driven by digital circuits.
- Horizontal design allows use in 1/2-inch PCB racks.
- Impulse withstand voltage meets FCC Part 68 requirements.
- Relays can be mounted side-by-side due to low magnetic leakage.
- Single- and double-winding latching relays also available.
- Special models available for low thermoelectro-motive force.

### Characteristics

Contact resistance : 50 mΩ max.  
 Bounce time : Operate : mean value : approx. 0.5 ms  
 Release : mean value : approx. 0.5 ms  
 Insulation resistance : 1,000 MΩmin. (at 500 VDC); except for set-reset  
 Impulse withstand voltage : 1,500 V (10 x 160 μs) (conforms to FCC Part 68)  
 Ambient temperature : Operating : -40°C to 70°C (with no icing)



Ambient humidity : Operating : 5% to 85%  
 Weight : DPDT : Approx. 3.5 g  
 4PDT : Approx. 6 g



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
35709	G6A-234P-ST-US-DC12V	OMRON	PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC12V	UL,CSA	DPDT
36533	G6A-234P-ST-US-DC24V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC24V	UL,CSA	DPDT
36516	G6A-234P-ST-US-DC3V	OMRON	PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC3V	UL,CSA	DPDT
36520	G6A-234P-ST-US-DC4.5V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC4.5V	UL,CSA	DPDT
36537	G6A-234P-ST-US-DC48V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC48V	UL,CSA	DPDT
36525	G6A-234P-ST-US-DC5V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC5V	UL,CSA	DPDT
36529	G6A-234P-ST-US-DC6V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC6V	UL,CSA	DPDT
36530	G6A-234P-ST-US-DC9V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC9V	UL,CSA	DPDT

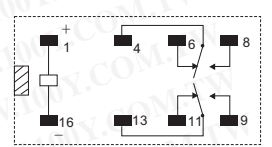
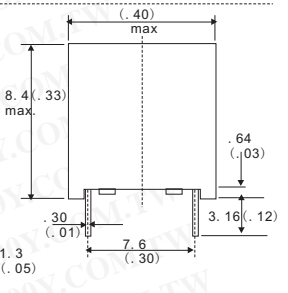
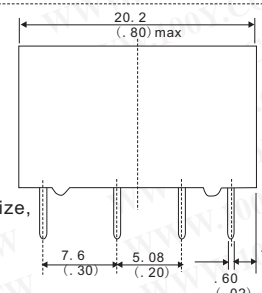


- High sensitivity -- can be driven by digital circuits.
- Low-profile design allows use in 12.70 mm (0.50 in) PC board rack.
- Surge withstand voltage meets FCC Part 68 regulation.
- Units can be mounted side by side due to low magnetic leakage.
- Special models available for ultrasonic cleaning and low thermo-electromotive force.
- Unique moving loop (permanent magnet) armature reduces relay size, magnetic interference, and contact bounce time.
- Single or dual coil winding types available.

### Characteristics

Contact resistance : 50 mΩ max.  
 Bounce time : Operate : Actual value approx. 0.50 ms  
 Release : Actual value approx. 0.50 ms  
 Operating frequency : Mechanical : 36,000 operations/hour  
 Electrical : 1,800 operations/hour (under rated load)  
 Insulation resistance : 1,000 MΩ min. (at 500 VDC)  
 Surge withstand voltage : 1,500 V 10 x 16 μs (conforms to FCC Part 68)

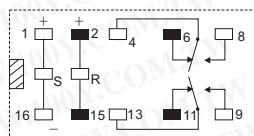
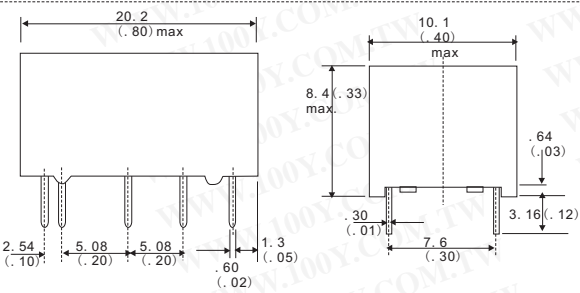
Vibration : Mechanical durability : 10 to 55 Hz; 5 mm (0.20 in) double amplitude  
 Malfunction durability : 10 to 55 Hz; 3.3 mm (0.13 in) double amplitude  
 Shock : Mechanical durability : 1,000 m/s<sup>2</sup> (Approx. 100G)  
 Malfunction durability : DPDT : 500 m/s<sup>2</sup> (Approx. 50 G);  
 4PDT : 300 m/s<sup>2</sup> (Approx. 30 G)  
 Ambient temperature : -40° to 70°C (-40° to 158°F)  
 Humidity : 45% to 85% RH



Terminal arrangement/Internal connections (Bottom view)



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
37204	G6A-274P-DC5V	OMRON	OMRON_PCB Relay	10.1*20.2*8.4	2 FROM C	0.3A 125VAC/1A 30VDC	5V	UL,CSA ,FCC	G6A
16195	G6A-274P-ST-US-DC12V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2C	0.6A/125VAC, 2A/30VDC	DC12V	UL,CSA	G6A-274P-ST-US
12350	G6A-274P-ST-US-DC24V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2c	0.6A/125VAC, 2A/30VDC	DC24V	UL,CSA	G6A-274P-ST-US
16194	G6A-274P-ST-US-DC5V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	2c	0.6A/125VAC, 2A/30VDC	DC5V	UL,CSA	G6A-274P-ST-US
39277	G6A-474P-ST-US-DC24V	OMRON	OMRON_PCB Relay			0.6A/125VAC, 2A/30VDC	DC24V	UL,CSA	G6A-474P-ST-US



Terminal arrangement/Internal connections (Bottom view)



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
16888	G6AK-234P-DC12V	OMRON	OMRON_PCB Relay	20.2*10.1*8.4	DPDT	2A	DC12V	UL,CSA	G6AK-234P



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