

■ Coil Data

AC

Rated voltage (V)	Rated current (mA)	Resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption
			% of rated voltage			
6	283	18.90	75% max.	15% min.	110% max.	Approx.1.70 to 2.50 VA
12	142	75				
24	71	303				
50	34	1,310				
100/120	17.00/20.40	5,260	75 volts	18 volts	132 volts	
200/240	8.50/10.20	21,000	150 volts	36 volts	264 volts	

DC

Rated voltage (V)	Rated current (mA)	Resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption
			% of rated voltage			
6	317	18.90	75% max.	15% min.	110% max.	Approx.1.90 W
12	158	75				
24	79	303				
48	40	1,220				
100	19	5,260				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

2. Performance characteristic data are measured at a coil temperature of 23°C (73°F).

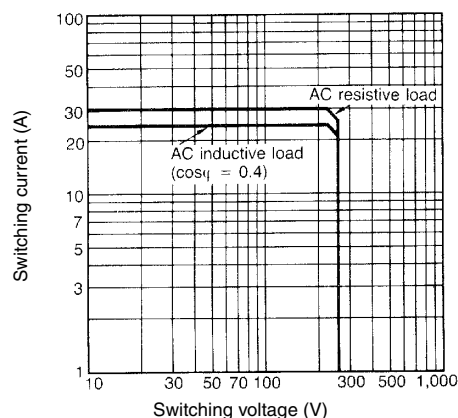
■ Characteristics

Contact resistance		50 mΩ max.
Operate time		30 ms max.
Release time		30 ms max.
Max. operating frequency	Mechanical	1,800 operations/hour
	Electrical	1,800 operations/hour (under rated load)
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength		4,000 VAC, min./5,000 VAC typical, 50/60 Hz for 1 minute between coil and contacts
		2,000 VAC, 50/60 Hz for 1 minute between contacts of same pole
		2,000 VAC, 50/60 Hz for 1 minute between contacts of different poles (DPST-NO type)
Impulse withstand voltage		Between coil and contact: 10,000 V min./12,000 V typ. (impulse wave used: 1.20 x 50 μs)
Vibration	Mechanical durability	10 to 55 Hz; 1.50 mm (0.06 in) double amplitude
	Malfunction durability	10 to 55 Hz; 1.50 mm (0.06 in) double amplitude
Shock	Mechanical durability	1,000 m/s ² (approx. 100 G)
	Malfunction durability	1,000 m/s ² (approx. 10 G)
Life expectancy	Mechanical	1,000,000 operations min. (at 1,800 operations/hour)
	Electrical	100,000 operations min. (at 1,800 operations/hour under rated load 250,000 ops typical)
Ambient temperature		-25° to 60°C (-13° to 140°F)
Humidity		35% to 85% RH
Weight		Quick-connect terminal type: approx. 90 g (3.17 oz)
		PCB terminal type: approx. 100 g (3.52 oz)
		Screw terminal type: approx. 120 g (4.23 oz)

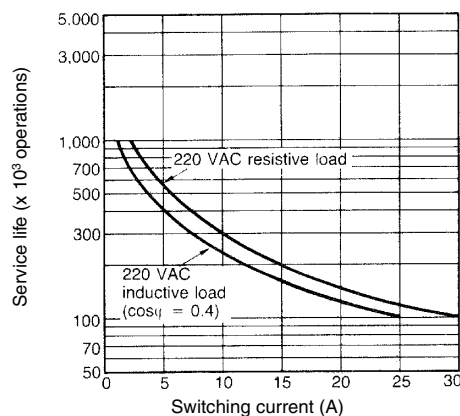
Note: Data shown are of initial value.

Characteristic Data

Maximum switching capacity



Electrical service life

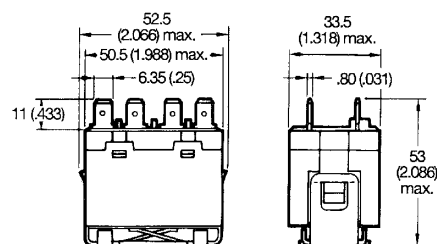


Dimensions

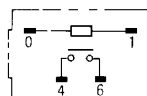
Unit: mm (inch)

Relays

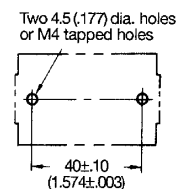
G7L-1A-T (E Bracket Attached)*



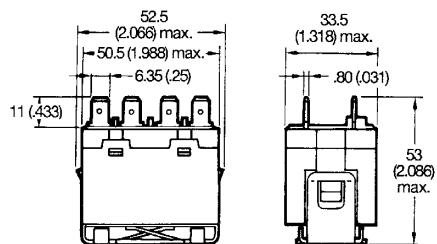
Terminal arrangement/ Internal connections (Top view)



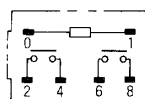
Mounting holes (Bottom view)



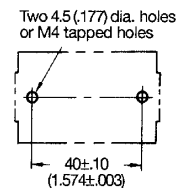
G7L-2A-T (E Bracket Attached)*



Terminal arrangement/ Internal connections (Top view)



Mounting holes (Bottom view)



* E bracket must be ordered separately.