

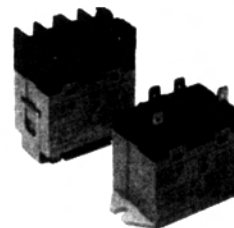
## G7L

## General Purpose Relay

# 7 RELAYS

### Features

- Allows switching of 25 A and 30 A loads
- A high-capacity, high-withstand voltage relay compatible with momentary voltage drops
- No contact chattering for momentary voltage drops up to 50% of rated voltage
- UL Class B construction standard
- Wide-range AC-activated coil that handles 100 to 120 VAC at either 50 or 60 Hz
- Quick-connect, screw, and PCB terminals available
- Conforming to IEC 950
- VDE approved versions available,



### Contact Data

#### Contact ratings

**SPST-NO:** 30 A, 250 VAC (Resistive); 25 A, 250 VAC (Inductive);  
25 A, 277 VAC General Use; 1.5 kW, 120 VAC Tungsten;  
3 HP 240/265/277 VAC; 20 FLA/120 LRA, 120 VAC;  
17 FLA/102 LRA, 277 VAC

**DPST-NO:** 25 A, 250 VAC (Resistive); 25 A, 250 VAC (Inductive);  
25 A, 277 VAC General Use; 1.5 kW, 120 VAC Tungsten;  
3 HP 240/265/277 VAC; 20 FLA/120 LRA, 120 VAC;  
17 FLA/102 LRA, 277 VAC

**Maximum operating voltage** 250 VAC

#### Maximum operating current

**SPST-NO:** 30 A

**DPST-NO:** 25 A

#### Maximum switching capacity

**SPST-NO:** Resistive: 6,600 VA

**DPST-NO:** Resistive: 5,500 VA

**Minimum permissible load** 100 mA, 5 VDC

### Coil Data (% of rated voltage)

**Pickup voltage** 75% max.

**Dropout voltage** 15% min.

**Maximum voltage** 110%

### Characteristic Data

**Initial contact resistance** 50mΩ max.

**Insulation resistance** 1,000MΩ min. (at 500VDC)

#### Dielectric strength

**Between coil and contacts:** 4,000 VAC min./5,000 VAC typical, 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):** 2,000 VAC, 50/60 Hz for 1 minute

#### Service life

**Mechanical:** 5,000,000 operations min.

**Electrical:** 100,000 operations min. for all resistive and inductive ratings

### Construction Data

**Termination** #250 Quick-connect terminals or screw terminals

#### Weight

**#250 QC type:** Approx. 3.17 oz. (90 g)

**Screw terminal type:** Approx. 4.23 oz. (120 g)

**Packaging method** Trays

### Ordering Information

Part number	Rated voltage (V)	Coil res. (Ωhms)	Power	Contact rating	Type
†G7L-1A-TJ-CB	-DC12	75	1.9 W	30 A	SPST-NO
	-DC24	303	Approx.	30 A	E Mounting
	-AC24	303	1.7 to	30 A	Bracket
	-AC100/120	5,260	2.5 VA	30 A	Required
†G7L-1A-BJ-CB	-DC12	75	1.9 W	30 A	SPST-NO
	-DC24	303	Approx.	30 A	E Mounting
	-AC24	303	1.7 to	30 A	Bracket
	-AC100/120	5,260	2.5 VA	30 A	Required
†G7L-1A-TJ-CB	-DC12	75	1.9 W	30 A	Required
	-DC24	303	Approx.	30 A	#250 QC
	-AC24	303	1.7 to	30 A	Terminals
	-AC100/120	5,260	2.5 VA	30 A	Terminals
†G7L-1A-BJ-CB	-DC12	75	1.9 W	30 A	Required
	-DC24	303	Approx.	30 A	#250 QC
	-AC24	303	1.7 to	30 A	Terminals
	-AC100/120	5,260	2.5 VA	30 A	Terminals
†G7L-2A-TJ-CB	-DC12	75	1.9 W	25 A	DPST-NO
	-DC24	303	Approx.	25 A	E Mounting
	-AC24	303	1.7 to	25 A	Bracket
	-AC100/120	5,260	2.5 VA	25 A	Required
†G7L-2A-BJ-CB	-DC12	75	1.9 W	25 A	Required
	-DC24	303	Approx.	25 A	#250 QC
	-AC24	303	1.7 to	25 A	Terminals
	-AC100/120	5,260	2.5 VA	25 A	Terminals
G7L-1A-TUBJ-CB-DC12	-DC12	75	1.9 W	30 A	SPST-NO
	-DC24	303	Approx.	30 A	Upper
	-AC24	303	1.7 to	30 A	Flange
	-AC100/120	5,260	2.5 VA	30 A	Bracket
G7L-1A-BUBJ-CB-DC12	-DC12	75	1.9 W	30 A	Bracket
	-DC24	303	Approx.	30 A	#250 QC
	-AC24	303	1.7 to	30 A	Terminals
	-AC100/120	5,260	2.5 VA	30 A	Terminals
G7L-2A-TUBJ-CB-DC12	-DC12	75	1.9 W	25 A	DPST-NO
	-DC24	303	Approx.	25 A	Upper
	-AC24	303	1.7 to	25 A	Flange
	-AC100/120	5,260	2.5 VA	25 A	Bracket
G7L-2A-BUBJ-CB-DC12	-DC12	75	1.9 W	25 A	Bracket
	-DC24	303	Approx.	25 A	#250 QC
	-AC24	303	1.7 to	25 A	Terminals
	-AC100/120	5,260	2.5 VA	25 A	Terminals

Note: 1. † E Mounting bracket required for mounting (R99-07-GSD).  
2. Other coil voltages available.