

A High-capacity, High-dielectric-strength Relay Compatible with Momentary Voltage Drops

- No contact chattering for momentary voltage drops up to 50% of rated voltage.
- Wide-range AC-activated coil that handles 100 to 120 or 200 to 240 VAC at either 50 or 60 Hz.
- Miniature size for maximum switching power, particularly for inductive loads.
- Flame-resistance materials (UL94V-0-qualifying) used for all insulation material.
- Quick-connect, screw, and PCB terminals, and DIN track mounting available.
- Conforms to UL, CSA, TUV and meets IEC950.
- Safety design with contact gap of 3 mm.

RoHS Compliant

Model Number Legend

G7L-□□-□□□
1 2 3 4 5

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

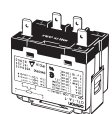
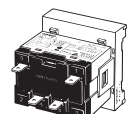
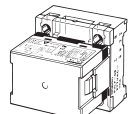
2. Contact Form
A: □PST-NO | 3. Terminal Shape
T: Quick connect terminals (#250)
B: Screw terminals
P: PCB terminals | 4. Mounting Construction
Blank: E-bracket
UB : Upper bracket

5. Special Functions
J : With test button |
|--|---|--|

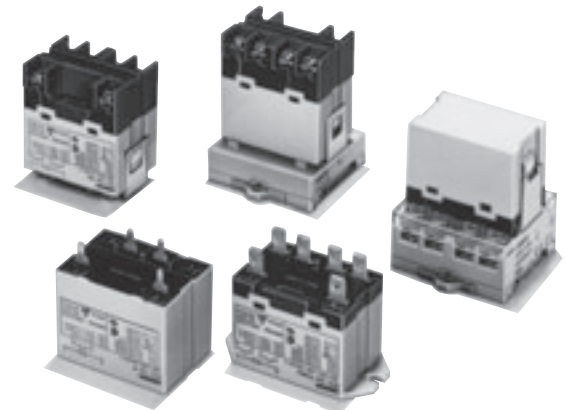
Model Configuration

Terminal			Quick-connect terminals	Screw terminals	PCB terminals	
Classification			Contact form			
E-bracket mounting (E-bracket is sold separately)	—	SPST-NO	G7L-1A-T	G7L-1A-B	—	
		DPST-NO	G7L-2A-T	G7L-2A-B	—	
	With test button	SPST-NO	G7L-1A-TJ	G7L-1A-BJ	—	
		DPST-NO	G7L-2A-TJ	G7L-2A-BJ	—	
Upper bracket mounting	—	SPST-NO	G7L-1A-TUB	G7L-1A-BUB	—	
		DPST-NO	G7L-2A-TUB	G7L-2A-BUB	—	
	With test button	SPST-NO	G7L-1A-TUBJ	G7L-1A-BUBJ	—	
		DPST-NO	G7L-2A-TUBJ	G7L-2A-BUBJ	—	
PCB mounting	—	SPST-NO	—	—	G7L-1A-P	
		DPST-NO	—	—	G7L-2A-P	

List of E-bracket Mounting Models

Mounting				E-brackets	DIN Track Mounting Adapter	Front-connecting Socket
Terminal	Contact form	Model	Test button			
Quick-connect terminals	SPST-NO	G7L-1A-T	—	○	○	○
		G7L-1A-TJ	With test button	○	○	○
	DPST-NO	G7L-2A-T	—	○	○	○
		G7L-2A-TJ	With test button	○	○	○
Screw terminals	SPST-NO	G7L-1A-B	—	○	○	—
		G7L-1A-BJ	With test button	○	○	—
	DPST-NO	G7L-2A-B	—	○	○	—
		G7L-2A-BJ	With test button	○	○	—

Note. Accessories: E-bracket (R99-07), Adapter (P7LF-D), Front-connecting socket (P7LF-06) and Cover (P7LF-C) sold separately.



Note. Accessories: E-bracket, Adapter, Front-connecting socket and Cover sold separately.

Application Examples

- Compressors for air conditioners and heater switching controllers.
- Switching controllers for power tools or motors.
- Power controllers for water heaters.
- Power controllers for dryers.
- Lamp controls, motor drivers, and power supply switching in copy machines, facsimile machines, and other office equipment.
- Lighting controllers.
- Power controllers for packers or food processing equipment.
- Magnetron control in microwaves.
- Power controllers for Uninterruptible Power Supply (UPS)

■ Ordering Information

E-bracket/Adapter/Socket Mounting Quick-connect Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-T	AC: 12, 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-T	AC: 12, 24, 50, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

Upper Bracket Mounting Quick-connect Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-TUB	AC: 12, 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-TUB	AC: 12, 24, 50, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

E-bracket/Adapter Mounting Screw Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-B	AC: 12, 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-B	AC: 12, 24, 100/120, 200/240 DC: 12, 24, 48, 100	

Upper Bracket Mounting Screw Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-BUB	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-BUB	AC: 12, 24, 50, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

PCB Mounting

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-P	AC: 100/120, 200/240 DC: 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-P	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

DIN Track Mounting Accessories

Applicable products	Name	Model	Minimum packing unit
Adaptor Surface Connection Socket	DIN Track	PFP-100N	10 pcs.
		PFP-50N	
		PFP-100N2	
	End plate	PFP-M	
	Spacer	PFP-S	

Note. Order the models above in increments of the minimum quantity packaged.

E-bracket/Adapter/Socket Mounting (with test button) Quick-connect Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-TJ	AC: 24, 100/120, 200/240 DC: 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-TJ	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

Upper Bracket Mounting (with test button) Quick-connect Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-TUBJ	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-TUBJ	AC: 12, 24, 50, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

E-bracket/Adapter Mounting (with test button) Screw Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-BJ	AC: 12, 24, 100/120, 200/240 DC: 12, 24	20 pcs./tray
2 poles	G7L-2A-BJ	AC: 24, 100/120, 200/240 DC: 12, 24, 48, 100	

Upper Bracket Mounting (with test button) Screw Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-BUBJ	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48	20 pcs./tray
2 poles	G7L-2A-BUBJ	AC: 24, 100/120, 200/240 DC: 6, 12, 24, 48, 100	

Note 1. When ordering, add the rated coil voltage to the model number.

Example: G7L-1A-T AC12

└── Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as □□ VDC.

Note 2. Refer to the precautions on **PCB Relays provided in General**

Information of the Relay Product Data Book, and "w -□-3" for coil characteristics of AC operation.

E-bracket/Adaptor/Socket/Cover

Applicable Relay models	Name	Model	Minimum packing unit
G7L-1A-T G7L-1A-TJ G7L-1A-B G7L-1A-BJ G7L-2A-T G7L-2A-TJ G7L-2A-B G7L-2A-BJ	E-bracket	R99-07	10 pcs.
G7L-1A-T G7L-1A-TJ G7L-2A-T G7L-2A-TJ G7L-2A-B G7L-2A-BJ	Adapter	P7LF-D	1 pcs.
G7L-1A-T G7L-1A-TJ G7L-2A-T G7L-2A-TJ	Front-connecting Socket	P7LF-06	1 pcs.
G7L-1A-B G7L-1A-BJ G7L-1A-BUB G7L-1A-BUBJ G7L-2A-B G7L-2A-BJ G7L-2A-BUB G7L-2A-BUBJ	Cover	P7LF-C	1 pcs.

Note. Order the models above in increments of the minimum quantity packaged.