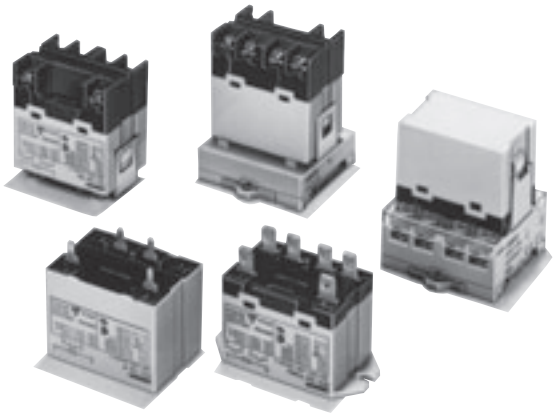
G7L

Power Relay

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



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

G7L

■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

■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)

■Model Configuration

Classification		Terminal / Contact form	Quick-connect terminals	Screw terminals	PCB terminals
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

Terminal	Contact form	Model	Test button	E-brackets	DIN Track Mounting Adapter	Front-connecting Socket
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.

■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	20 pcs./tray
		DC: 6, 12, 24, 48, 100	
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	20 pcs./tray
		DC: 6, 12, 24, 48, 100	
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	20 pcs./tray
		DC: 6, 12, 24, 48, 100	
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	20 pcs./tray
		DC: 6, 12, 24, 48, 100	
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	20 pcs./tray
		DC: 12, 24, 48, 100	
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	20 pcs./tray
		DC: 12, 24, 48, 100	
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	20 pcs./tray
		DC: 6, 12, 24, 48, 100	
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	20 pcs./tray
		DC: 12, 24	
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	20 pcs./tray
		DC: 6, 12, 24, 48	
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.
	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.