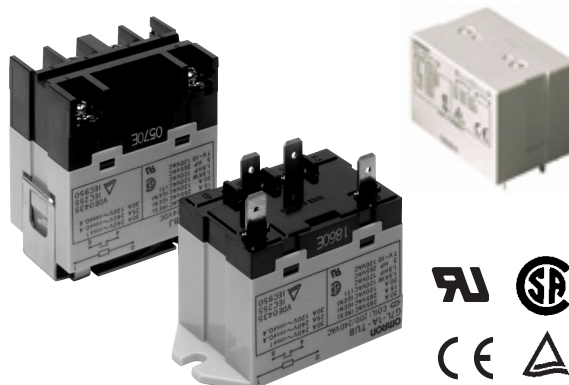


# General Purpose Relay G7L

- Ideally suited for high-inrush fluid pump controls: pool/spa, water processing, emergency, chemical industry, etc.
- High-capacity, high-withstand voltage relay with 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.
- Miniature hinge for maximum switching capacity, particularly for inductive loads.
- Flame resistant materials (UL94V-0-qualifying) used for all insulation material.
- Quick-connect, screw, and PCB terminals available.
- Standard models are UL, CSA, and TUV approved; VDE/IEC 950 versions are now available. Meet pollution degree 3, Material Group II & III.



## Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G7L-1A-T-CB-AC100/120).

Type	Contact form	Model		
		Quick-connect terminal	Screw terminal	PCB terminal
E bracket (see note 1)	SPST-NO	G7L-1A-T-CB	G7L-1A-B-CB	—
	DPST-NO	G7L-2A-T-CB	G7L-2A-B-CB	—
E bracket (see note 1) (with test button)	SPST-NO	G7L-1A-TJ-CB	G7L-1A-BJ-CB	—
	DPST-NO	G7L-2A-TJ-CB	G7L-2A-BJ-CB	—
Upper bracket	SPST-NO	G7L-1A-TUB-CB	G7L-1A-BUB-CB	—
	DPST-NO	G7L-2A-TUB-CB	G7L-2A-BUB-CB	—
Upper bracket (with test button)	SPST-NO	G7L-1A-TUBJ-CB	G7L-1A-BUBJ-CB	—
	DPST-NO	G7L-2A-TUBJ-CB	G7L-2A-BUBJ-CB	—
PCB mounting	SPST-NO	—	—	G7L-1A-P-CB
	DPST-NO	—	—	G7L-2A-P-CB

- Note:** 1. E bracket or socket must be used for mounting (part number R99-07G5D). Refer to “Accessories” section for options and part numbers.  
 2. For VDE approved versions, please consult OMRON.

## Model Number Legend

G7L-□□-□□□□  
1 2 3 4 5 6

- |   |   |  |
|---|---|--|
| <p><b>1. Contact form</b><br/>1A:SPST-NO<br/>2A:DPST-NO</p> <p><b>2. Terminal shape</b><br/>T:Quick-connect terminals<br/>P:PCB terminals<br/>B:Screw terminals</p> | <p><b>3. Mounting construction</b><br/>No symbol:E bracket type<br/>UB:Upper bracket type</p> <p><b>4. Special functions</b><br/>No symbol:Without test button<br/>J:With test button</p> | <p><b>5. 80: VDE approved version</b><br/>(includes UL, CSA and TÜV)</p> <p><b>6. CB: Class B insulation</b></p> <p><b>7. Rated coil voltage</b></p> |
|---|---|--|

## Accessories

### Quick-connect Terminals

Description	Model				Model
	Contact form				
	SPST-NO		DPST-NO		
E-brackets	G7L-1A-T	G7L-1A-TJ	G7L-2A-T	G7L-2A-TJ	R99-07G5D
Track mounting adaptor					P7LF-D
Front connecting socket					P7LF-06

**Note:** A socket terminal cover is supplied with the P7LF-06 socket and does not attach directly to the G7L relays. It cannot be purchased separately.

### Screw Terminals

Description	Model				Model
	Contact form				
	SPST-NO		DPST-NO		
E-brackets	G7L-1A-B	G7L-1A-BJ	G7L-2A-B	G7L-2A-BJ	R99-07G5D
Track mounting adaptor					P7LF-D
Terminal Cover					P7LF-C

**Note:** The P7LF-C terminal cover attaches directly to the G7L-B style relays. It is sold separately.

## Specifications

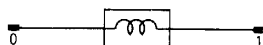
### Contact Data

Load	G7L-1A-T, G7L-1A-B		G7L-2A-T, G7L-2A-B		G7L-1A-P, G7L-2A-P	
	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4)
Rated load	30 A, 220 VAC	25 A, 220 VAC			20 A, 220 VAC	
Contact material	AgSnIn					
Carry current	30 A		25 A		20 A	
Max. operating voltage	250 VAC					
Max. operating current	30 A		25 A		20 A	
Max. switching capacity	6,600 VA	5,500 VA			4,400 VA	
Min. permissible load	100 mA, 5 VDC (please inquire for lower minimum rating)					

**Note:** P level:  $\lambda_{60} = 0.1 \times 10^{-6}$  operation.

### Coil Internal Circuit

DC operating coil



AC operating coil

