

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.

T: Quick connect

terminals (#250)

- Conforms to UL, CSA, TUV and meets IEC950.
- Safety design with contact gap of 3 mm.

RoHS Compliant

Model Number Legend

G7L-00-000

12345

- 1. Number of Poles 3. Terminal Shape
- 1: 1 pole

A: DPST-NO

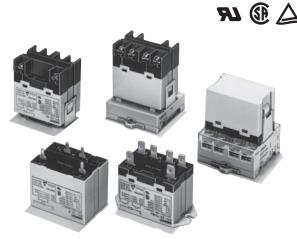
- 2: 2 poles
- 2. Contact Form
 - B: Screw terminals
 P: PCB terminals
- **4. Mounting Construction** Blank: E-bracket
- UB : Upper bracket
- **5. Special Functions** J : With test button

■Model Configuration

		Terminal	Quick-connect terminals	Screw terminals	PCB terminals
			Ŀ		
Classification		Contact form			
E-bracket		SPST-NO	G7L-1A-T	G7L-1A-B	-
mounting	-	DPST-NO	G7L-2A-T	G7L-2A-B	-
(E-bracket is	With test	SPST-NO	G7L-1A-TJ	G7L-1A-BJ	-
sold separately)	button	DPST-NO	G7L-2A-TJ	G7L-2A-BJ	-
		SPST-NO	G7L-1A-TUB	G7L-1A-BUB	-
Upper bracket	-	DPST-NO	G7L-2A-TUB	G7L-2A-BUB	-
mounting	With test	SPST-NO	G7L-1A-TUBJ	G7L-1A-BUBJ	-
	button	DPST-NO	G7L-2A-TUBJ	G7L-2A-BUBJ	-
PCB mounting		SPST-NO	-	-	G7L-1A-P
FOB mounting	-	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			C C C C C C C C C C C C C C C C C C C
Terminal	IOIIII	G7L-1A-T	Test bullon	0		0
Quick-	SPST-NO	-	-	-	0	Ū.
connect		G7L-1A-TJ	With test button	0	0	0
terminals	DPST-NO	G7L-2A-T	-	0	0	0
terminais	DF31-NO	G7L-2A-TJ	With test button	0	0	0
	SPST-NO	G7L-1A-B	-	0	0	-
Screw	3-31-110	G7L-1A-BJ	With test button	0	0	-
terminals	DPST-NO	G7L-2A-B	-	0	0	-
	DF31-NO	G7L-2A-BJ	With test button	0	0	-



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)

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	
	DC: 6, 12, 24, 48, 100	20 pcs./tray	
2 poles	G7L-2A-T	AC: 12, 24, 50, 100/120, 200/240	20 pc3./ilay
z poles		DC: 6, 12, 24, 48, 100	

Upper Bracket Mounting

Quick-connect Terminal

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

E-bracket/Adapter Mounting Screw Terminal

Number of poles	Model	Rated coil voltage	Minimum packing unit
1 polo	1 pole G7L-1A-B	AC: 12, 24, 100/120, 200/240	
i pole		DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	es G7L-2A-B	AC: 12, 24, 100/120, 200/240	20 pcs./liay
2 poles		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	
i pole	GIL-IA-BOB	DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-BUB	AC: 12, 24, 50, 100/120, 200/240	20 pcs./iiay
z poles	poles G/L-ZA-DUD	DC: 6, 12, 24, 48, 100	

PCB Mounting

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

DIN Track Mounting Accessories

Applicable products	Name	Model	Minimum packing unit
Adaptor Surface Connection Socket		PFP-100N	
	DIN Track	PFP-50N	
		PFP-100N2	10 pcs.
	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		
	G/L-TA-15	DC: 12, 24, 48, 100	20 pcs./tray
2 poles G7L-2A-TJ	G71-2A-T1	AC: 24, 100/120, 200/240	
	G/L-2A-1J	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		
i pole	T pole G7L-TA-TOBJ	DC: 6, 12, 24, 48, 100	20 pcs./tray	
2 poles	les G7L-2A-TUBJ	AC: 12, 24, 50, 100/120, 200/240	20 pcs./iiay	
z poles	G/L-2A-TUBJ	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	
i pole	i pole G/L-IA-BJ	DC: 12, 24	20 pcs./tray
2 poles	G7L-2A-BJ	AC: 24, 100/120, 200/240	20 pcs./iiay
2 poles	G/L-2A-BJ	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		
T pole G/L-TA-BUBJ	DC: 6, 12, 24, 48	20 pcs./tray		
2 poles	2 poles G7L-2A-BUBJ	AC: 24, 100/120, 200/240	20 pcs./ilay	
2 poles G7L-2A-BOBJ		DC: 6, 12, 24, 48, 100		

Note 1. Please add the coil rated voltage (V) to the model number when

ordering. Example: G7L-1A-T AC12

In addition, the delivered product and its package will be marked with

voltage specification 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	E-bracket	R99-07	10 pcs.
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-BJ G7L-2A-BUB G7L-2A-BUBJ	Cover	P7LF-C	1 pcs.

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

Ratings

Item	Rated current	Coil resistance	Coil induc	ctance (H)	Must operate voltage	Must release voltage	Max. permissible voltage	Power consumption
Rated voltage	(mA)	(Ω)	Armature ON	Armature OFF	On the b	basis of rated	voltage	(VA-W)
12 VAC	142			/				
24 VAC	71				75% max.	15% min.	110%	Annual 17
50 VAC	34							Approx. 1.7 to 2.5
100 to 120 VAC	17.0 to 20.4				75 V	18 V	132 V	10 2.5
200 to 240 VAC	8.5 to 10.2	\vee			150 V	36 V	264 V	
6 VDC	317	18.9	0.09	0.21				
12 VDC	158	75	0.37	0.88				
24 VDC	79	303	1.42	3.54	75% max.	15% min.	110%	Approx. 1.9
48 VDC	40	1220	6.1	15.3				
100 VDC	19	5260	21.3	60.0				

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

2. The inductances shown above are reference values.

3. Performance characteristic data are measured at a coil temperature of 23•C.

4. The maximum allowable coil voltage refers to the maximum value in a varying range of operating power voltage, measured at ambient temperature 23°C.

5. The "to" (for example "100 to 120") represents the range of rated voltages.

Contacts

Contact Form	G7L-1A-T□ G7L-1A-B□		G7L-2A-T□ G7L-2A-B□		G7L-1A-P G7L-2A-P	
load	Resistive load	Inductive load $(\cos\phi = 0.4)$	Resistive load	Inductive load $(\cos\phi = 0.4)$	Resistive load	Inductive load $(\cos\phi = 0.4)$
Contact type	Double break					
Contact material		Ag alloy				
Rated load	30 A at 220 VAC	25 A at 220 VAC	25 A at 220 VAC		20 A at 220 VAC	
Rated carry current	30 A 25 A 20 A			A		
Max. switching voltage			250 VAC			
Max. switching current	30 A		25 A		20 A	

Note. When using B-series (screw) products, since the screw diameter of the contact terminal is M4, be careful that the contact current should be 20 A or less according to JET standard (electrical appliance and material control law of Japan).

■Characteristics

Contact resi		50 mΩ max.	
Operate tim		30 ms max.	
Release tim	e *3	30 ms max.	
Max. operating	Mechanical	1,800 operations/hr	
frequency	Rated load	1,800 operations/hr	
Insulation re	sistance *3	100 MΩ min	
	Between coil and contacts	4,000 VAC min., 50/60 Hz for 1 min	
Dielectric	Between contacts of same polarity		
strength	Between contacts of different polarity (DPST-NO model)	2,000 VAC, 50/60 Hz for 1 min	
Impulse with	stand voltage	10,000 V between coil and contact *4	
Vibration	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
resistance	Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
Shock	Destruction	1,000 m/s ²	
resistance	Malfunction	100 m/s ²	
	Mechanical	1,000,000 operations min. (at 1,800 operations/hr)	
Endurance	Electrical *5	100,000 operations min. (at 1,800 operations/hr under rated load)	
Failure rate (reference v		100 mA at 5 VDC	
Weight	,,	Approx. 90 g: Quick-connect terminal models Approx. 100 g: PCB terminal models Approx. 120 g: Screw terminal models	

1. ement conditions: 5 VDC, 1 A, voltage drop method.

method. Measurement conditions: Rated operating voltage applied, not including contact bounce. Ambient temperature: 23°C Measurement conditions: The insulation resistance was measured with a 500-VDC megohmmeter at the same locations as the dielectric strength was measured. JEC-212 (1981) Standard Impulse Wave Type (1.2x50µs). Ambient temperature: 3°C *2.

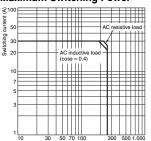
G 7 L

- *3.
- *4
- Ambient temperature: 23°C This value was measured at a switching frequency of 60 operations/min. *5. *6.

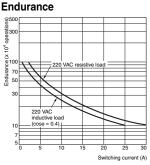
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Ambient operating temperature	-25•C to 60•C (with no icing or condensation)
Ambient operating humidity	5% to 85%

Engineering Data

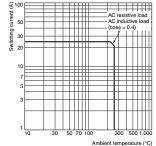
G7L-1A-T (TJ) (TUB) (TUBJ) G7L-1A-B (BJ) (BUB) (BUBJ) Maximum Switching Power



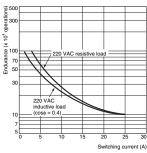
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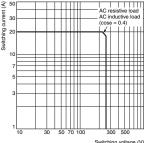
G7L-2A-T (TJ) (TUB) (TUBJ) G7L-2A-B (BJ) (BUB) (BUBJ) **Maximum Switching Power**



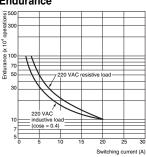
Endurance



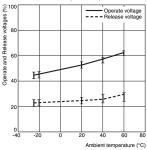
G7L-1A-P G7L-2A-P Maximum Switching Power



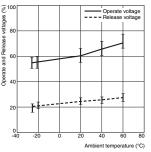
Endurance



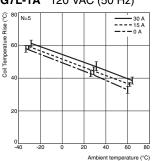
Ambient Temperature vs. Operate and Release Voltage G7L-1A VAC (60 Hz)



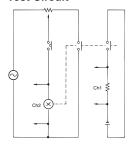
G7L-1A VDC



Ambient Temperature vs. **Coil Temperature Rise** G7L-1A 120 VAC (50 Hz)



Momentary Voltage Drop Test G7L-2A-T (TUB) 100 to 120 VAC Test Circuit



Wave resulted from test

G7L-1A VDC

라

30 A

60

Ambient temperature (°C)

80

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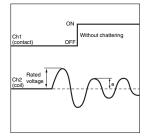
N=5

õ

lise

emper

Coil



Characteristic variation resulted from different mounting directions G7L-2A-T (TUB) 100 to 120 VAC

(sm

lime

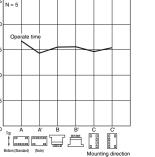


Time

G 7 L

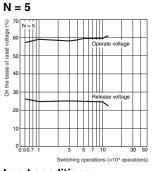
Release time N - 4

R

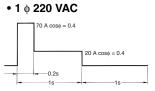


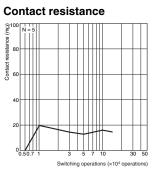
(Note.)The mounting direction A' deteriorates switching performance.

Actual Load Endurance Test G7L-2A 100 to 200 VAC **Operate and Release voltages**



Load conditions



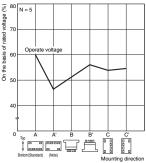


Applied coil voltage: 100% of rated voltage

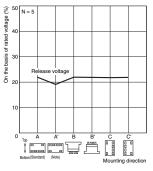
Operate voltage

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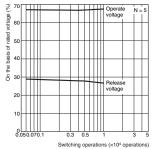
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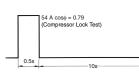
Release voltage



Operate and Release voltages N = 5



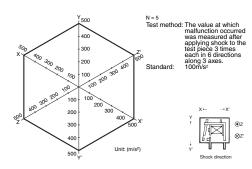
Load conditions • 1 \$ 220 VAC



-

Applied coil voltage: 100% of rated voltage

Shock Malfunction G7L-2A-T (TUB) 100 to 120 VAC



Voltage distribution of wave e which chattering does not occur.

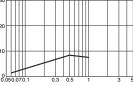
Relays =10 Number (

On the basis of rated voltage (%)





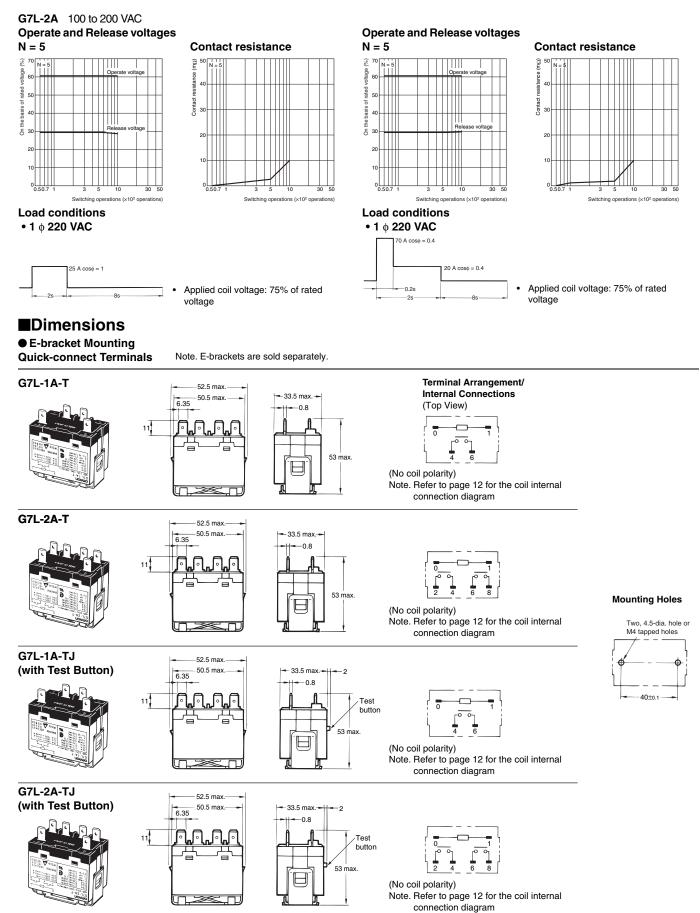
Contact resistance



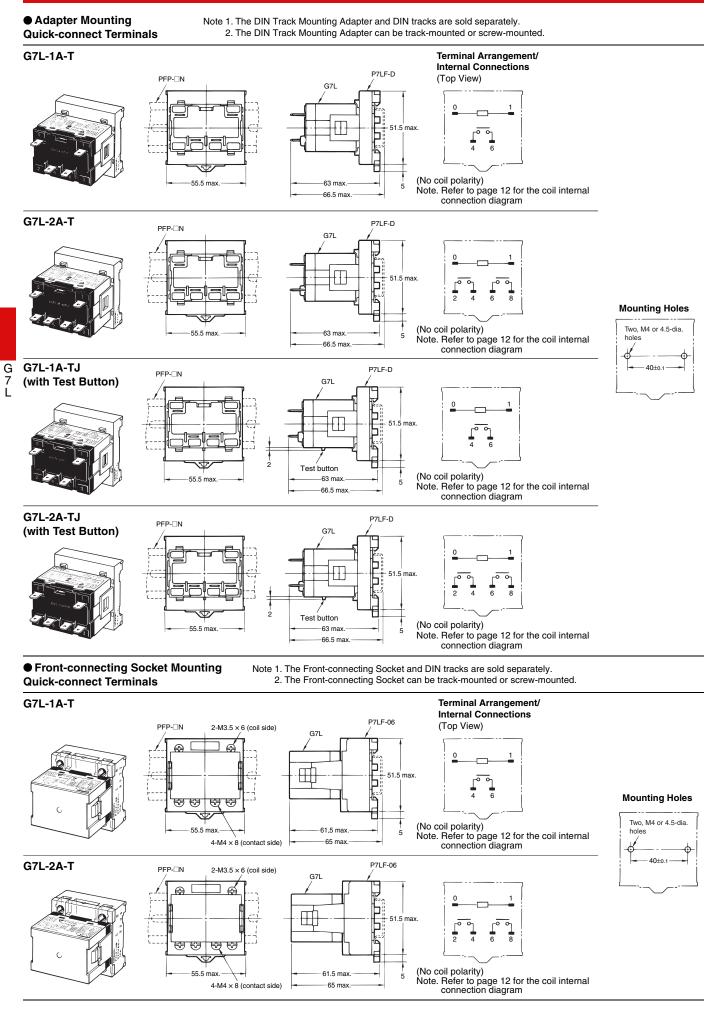
Switching operations (×10⁴ op

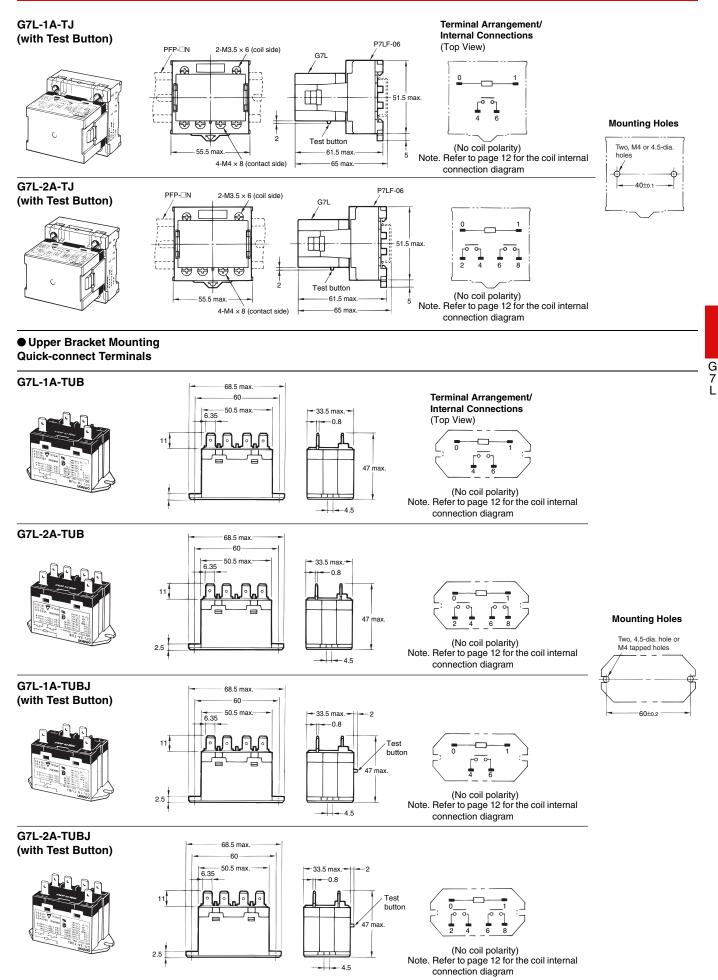
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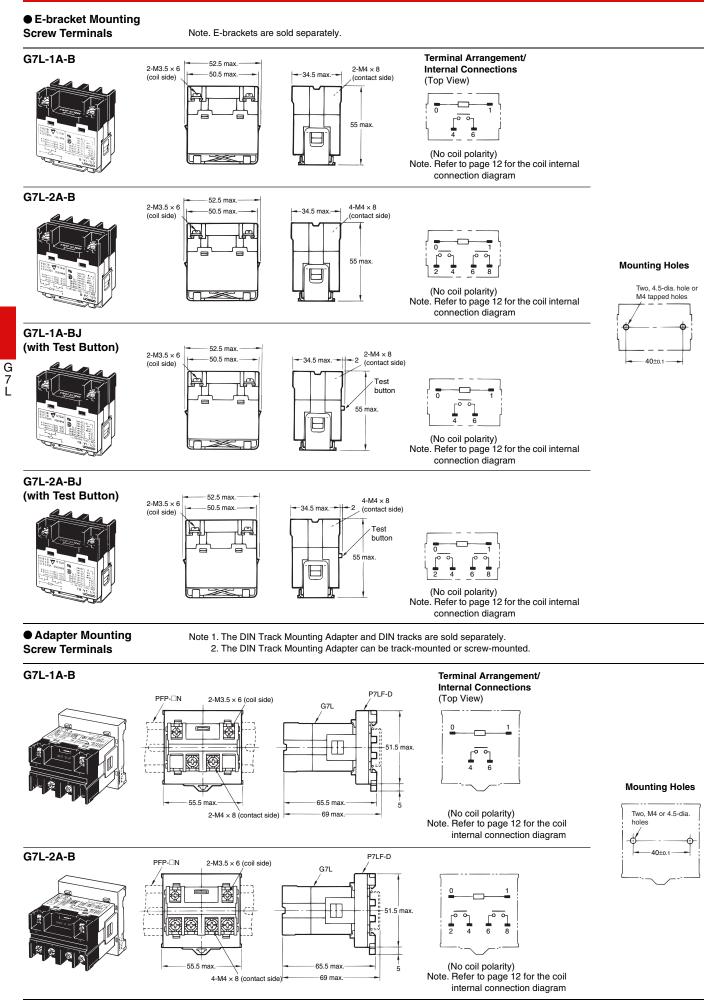
G7L

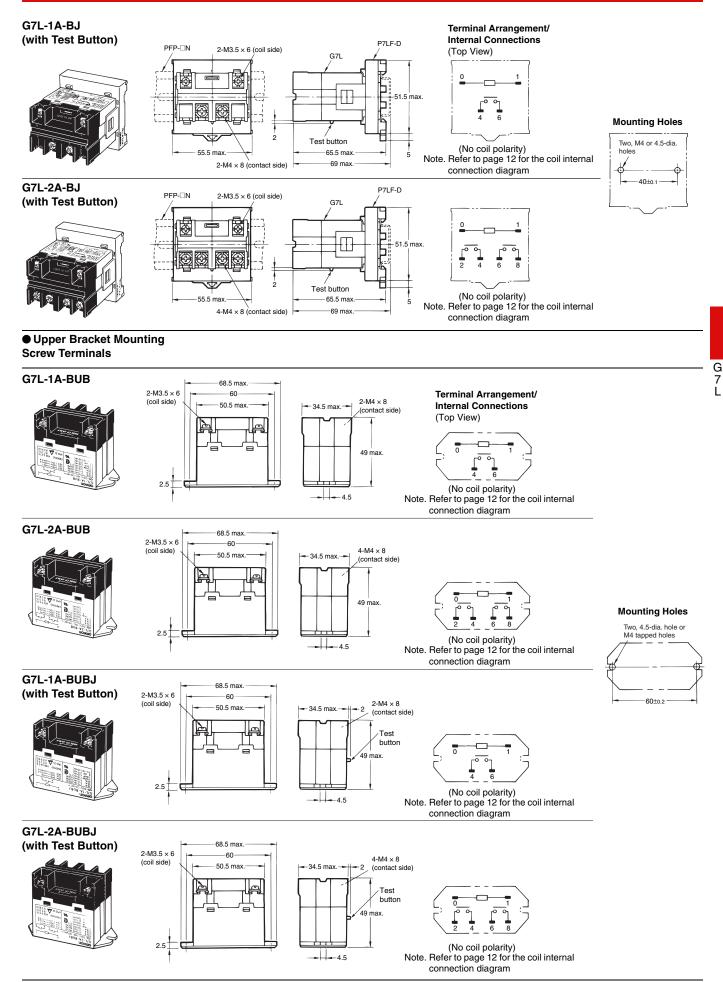


G 7 L



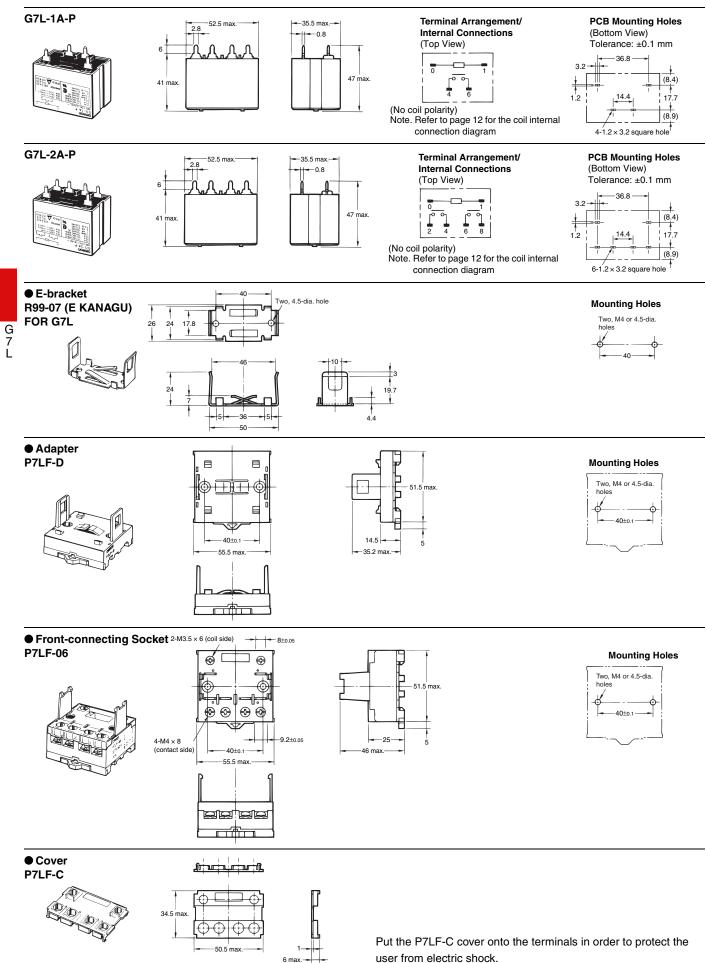






G7L

PCB Mounting **PCB Terminals**



6 max. -

Approved Standards

· A variety of Safety Standard approved products for standard models.

UL approval 🔊 (File No. E41643)

Model	Coil ratings	Contact ratings	Number of test
Woder	Contaings	SPST-NO	operations
		30 A, 277 VAC (RES) 40°C	100,000
G7L-1A-T		1.5 kW, 120 VAC (T) 40°C	6,000
G7L-1A-B G7L-1A-P		1.5 HP, 120 VAC 40°C	1,000
G7L-2A-T	6 to 220 VDC	3 HP 277 VAC 40°C	100,000
G7L-2A-B□	010220100	20 FLA/120 LRA, 120 VAC 40°C	30,000
G7L-2A-P		17 FLA/102 LRA, 277 VAC 40°C	50,000
		TV-10, 120 VAC 40°C	25,000

CSA approval (File No. LR31928)

Model	Coil ratings	Contact ratings	Number of test
Widder	Contrainigo	SPST-NO	operations
		2.4 kW, 120 VAC (T) 40°C	6,000
	12 to 240 VAC	1.5 HP, 120 VAC (T) 40°C	1.000
G7L-1A-P	6 to 220 VDC	3 HP 277 VAC 40°C	1,000
	0102200000	20.5 FLA/105 LRA, 120 VAC 85°C	100,000
		TV-10, 120 VAC 40°C	25,000
G7L-1A-T		30 A, 277 VAC (RES) 40°C	100,000
G7L-1A-B		2.4 kW, 120 VAC (T) 40°C	6,000
	12 to 240 VAC	1.5 HP, 120 VAC 40°C	1.000
G7L-2A-T□	6 to 220 VDC	3 HP 277 VAC 40°C	1,000
G7L-2A-B		20.5 FLA/105 LRA, 120 VAC 85°C	100,000
G7L-2A-P		TV-10, 120 VAC 40°C	25,000

Reference

UL Approved Type

UL508 Industrial Control Devices

UL1950 Information processing equipment

(Including office equipment)

CSA Approved Type.....

CSA C22.2 No.1, 14

Industrial Control Devices

CSA C22.2 No.950 Information processing equipment

(Including office equipment)

TÜV EN/IEC Standard Approved Type EN61810-1 Relay

EN60950 Information processing equipment

(Including office equipment)

IEC950 Information processing equipment

(Including office equipment)

Model	Coil ratings	Contact ratings	Approved switching	
WOUEI	Contrainings	SPST-NO	operations	
		30 A, 250 VAC ~ $(\cos\phi = 1) 60^{\circ}$ C		
G7L-1A-B□		25 A, 250 VAC ~ $(\cos\phi = 0.4) 60^{\circ}$ C 30 A, 120 VAC ~ $(\cos\phi = 0.4) 60^{\circ}$ C	50,000	
	-	DPST-NO		
G7L-2A-B□		25 A, 277 VAC ~ (cosφ = 1) 60°C	50,000	
	-	$25 \text{ A}, 277 \text{ VAC} \sim (\cos \phi = 0.4) 60^{\circ} \text{C}$		
		SPST-NO		
		25 A, 240 VAC ~ (cos = 1) 60°C		
G7L-1A-T		25 A, 240 VAC ~ (cosφ = 0.4) 60°C	50,000	
	6 10 04 49	25 A, 277 VAC ~ (cosφ = 1) 60°C		
	6, 12, 24, 48,	25 A, 277 VAC ~ (cosφ = 0.4) 60°C		
	100, 110, 200, 220 VDC	DPST-NO		
	12, 24, 50,	25 A, 240 VAC ~ (cosφ = 1) 60°C		
G7L-2A-T	12, 24, 50, 100 to 120, 200 to 240	25 A, 240 VAC ~ (cosφ = 0.4) 60°C	50,000	
		25 A, 277 VAC ~ (cosφ = 1) 60°C		
	VAC	25 A, 277 VAC ~ (cosφ = 0.4) 60°C		
	110	SPST-NO		
		20 A, 240 VAC ~ (cos = 1) 60°C		
G7L-1A-P		20 A, 240 VAC ~ (cos = 0.4) 60°C	50,000	
		25 A, 277 VAC ~ (cosφ = 1) 60°C		
		25 A, 277 VAC ~ (cosφ = 0.4) 60°C		
		DPST-NO		
		20 A, 240 VAC ~ (cos = 1) 60°C		
G7L-2A-P		20 A, 240 VAC ~ (cos = 0.4) 60°C	50,000	
		25 A, 277 VAC ~ (cosφ = 1) 60°C		
		25 A, 277 VAC ~ (cosφ = 0.4) 60°C		

Precautions

• Please refer to "PCB Relays Common Precautions" for general precautions.

Correct Use

Installation

- Although there are not specific limits on the installation site, it should be as dry and dust-free as possible.
- Using in an atmosphere of high temperature, high humidity and corrosive gas may deteriorate its performance characteristic caused by condensation or corrosive products, resulting in failure or burn damage of the Relay.
- PCB Terminal-equipped Relays weigh approximately 100 g.
 Be sure that the PCB is strong enough to support them. We recommend dual-side through-hole PCBs to reduce solder cracking from heat stress.
- Relays with test buttons must be mounted facing down.
 Be careful not to touch the test button accidentally. Doing so may turn ON the contact.
- Be sure to use the test button for test purposes only (with test-button models). The test button is used for Relay circuit tests, such as circuit continuity tests. Do not attempt to switch the load with the test button.

Micro Loads

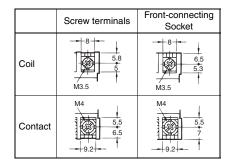
• The G7L is used for switching power loads, such as motor, transformer, solenoid, lamp, and heater loads. Do not use the G7L for switching micro loads, such as signals.

Soldering PCB Terminals

- Do not perform automatic soldering but solder manually.
- Do not wash down the entire Relay because it does not have an airtight construction.

Connecting

 Refer to the following table when connecting a wire with a crimpstyle terminal to the G7L.



- Allow suitable slack on leads when wiring, and do not apply excessive force to the terminals.
- Tightening torque
- Coil: 0.78 to 1.18 N m Contact: 0.98 to 1.37 N m
- Contact: 0.98 to 1.37 N · m

When connecting with screws, if the screws are not sufficiently tightened, the lead wire can become detached and may lead to abnormal heating or fire caused by faulty contact.

- Mounting Torque
 0.98N · m
 Tighten with two M4 screws when mounting.
 (Top bracket type)
- (Top bracket type)
- Do not apply excessive force when mounting or dismounting the Faston receptacle.Insert and remove terminals carefully one at a time. Do not insert terminals at an angle, or insert/remove multiple terminals at the same time.
- Do not connect to the terminals by soldering

Туре	Receptacle terminals*	Positive housing
#250 terminals (width: 6.35 mm)	AMP 170333-1 (170327-1) AMP 170334-1 (170328-1) AMP 170335-1 (170329-1)	AMP 172076-1 natural color AMP 172076-4 yellow AMP 172076-5 green AMP 172076-6 blue

The numbers shown in parentheses are for air-feeding.

Note 1. The current should be 25 A when using receptacle terminals.

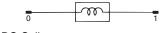
Note 2. Use receptacle terminals or positive housing for cable wiring.

Reference Data

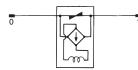
• The ratio of rated voltage between 100 to 120 VAC are values measured on the basis of 100 VAC.

Operating Coil

- (Coil internal connections diagram)
- AC Coil







- If a transistor drives the G7L check the leakage current, and connect a bleeder resistor if necessary.
- The AC coil is provided with a built-in full-wave rectifier. If a triac, such as an SSR, drives the G7L, the G7L may not release. Be sure to perform a trial operation with the G7L and the triac before applying them to actual use.

DIN Track Mounting Adapter and Front-connecting Socket

(DIN Track Mounting)

- The DIN Track Mounting Adapter and Front-connecting Socket can be mounted on the G7L with just one hand and dismounted with ease by using a screwdriver.
- To support the G7L mounted on a DIN Track Mounting Adapter or Front-connecting Socket, use the PFP-M End Plate. Put the End Plate onto the DIN Track Mounting Adapter or Front-connecting Socket so that the surface mark of the End Plate faces upwards. Then tighten the screw of the End Plate securely with a screwdriver.

(Screw Mounting)

- Screw-mount the DIN Track Mounting Adapter or Front-connecting Socket securely after opening screw mounting holes on them.
- When cutting or opening holes on the panel after the Front-connecting Socket is mounted, take proper measures so that the cutting chips will not fall onto the Relay terminals. When cutting or opening holes on the upper part of the panel, mask the Front-connecting Socket properly with a cover.

Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product. Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

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