

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-00-000

- 12345
- 1. Number of Poles 3. Terminal Shape
- 1: 1 pole
- 2:2 poles
- T: Quick connect
 - terminals (#250)
- 2. Contact Form A: PST-NO
- **B:** Screw terminals P: PCB terminals
- 4. Mounting Construction Blank: E-bracket
- UB : Upper bracket
- 5. Special Functions
- : With test button J



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)

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	-
DCP mounting		SPST-NO	-	-	G7L-1A-P
PCB 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
Terminal	-	G7L-1A-T		0	0	0
Quick-	SPST-NO	G7L-1A-TJ	With test button	0	0	0
connect		G7L-2A-T	-	0	0	0
terminals	DPST-NO	G7L-2A-TJ	With test button	0	0	0
	SPST-NO	G7L-1A-B	-	0	0	-
Screw	5P51-NU	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 (R99-07), Adapter (P7LF-D), Front-connecting socket (P7LF-06) and Cover (P7LF-C) sold separately.

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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 G7L-2A-T	AC: 12, 24, 100/120, 200/240	
i poic		DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles		AC: 12, 24, 50, 100/120, 200/240	20 pcs./ilay
z poies	G/L-2A-1	DC: 6, 12, 24, 48, 100	1

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./iray	
		G/L-2A-10B	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		
		GIL-TA-D	DC: 6, 12, 24, 48, 100	20 pcs./tray
	2 poles G7L-2A-B	AC: 12, 24, 100/120, 200/240	20 pcs./iray	
		DC: 12, 24, 48, 100		

Upper Bracket Mounting Screw Terminal

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Number of poles	Model	Rated coil voltage	Minimum packing unit
1 pole	G7L-1A-BUB	AC: 24, 100/120, 200/240	
i pole	T pole G7L-TA-BUB	DC: 6, 12, 24, 48, 100	20 pcs./tray
2 poles	G7L-2A-BUB	AC: 12, 24, 50, 100/120, 200/240	20 pcs./iray
z poies	G/L-2A-B0B	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	
T pole G7L-TA-	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./iiay
z poies	G/L-2A-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-1A-15	DC: 12, 24, 48, 100	20 page /trave
2 poles G7L-2A-TJ	AC: 24, 100/120, 200/240	20 pcs./tray	
	G/L-2A-13	DC: 6, 12, 24, 48, 100	20 pcs./tray

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	oles G7L-2A-TUBJ	AC: 12, 24, 50, 100/120, 200/240	20 pcs./ilay
z poles	G/L-2A-1085	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	
T pole G7L-TA-BJ	DC: 12, 24	20 pcs./tray	
2 poles	G7L-2A-BJ	AC: 24, 100/120, 200/240	20 pcs./ilay
z poles	G/L-ZA-DJ	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	1 pole G7L-1A-BUBJ	AC: 24, 100/120, 200/240	
i pole	G/L-1A-B0B3	DC: 6, 12, 24, 48	20 pos /trav
2 poles	2 poles G7L-2A-BUBJ	AC: 24, 100/120, 200/240	20 pcs./iray
2 poles	G/L-2A-B0BJ	DC: 6, 12, 24, 48, 100	20 pcs./tray

When ordering, august ... Example: G7L-1A-T AC12 Rated coil voltage Note 1. When ordering, add the rated coil voltage to the model number.

However, the notation of the coil voltage on the product case as well as on the packing will be marked as DD 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-BUB G7L-2A-BUB	Cover	P7LF-C	1 pcs.

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

Ratings

Coil Item Max. Must operate Must release Coil inductance (H) Rated Coil permissible Power voltage voltage voltage onsumption (VA-W) resistance current (mA) Armature ON Armature OFF (Ω) On the basis of rated voltage Rated voltage 12 VAC 142 24 VAC 15% min. 71 75% max. 110% Approx. 1.7 to 2.5 50 VAC 34 100 to 120 VAC 17.0 to 20.4 75 V max. 18 V min. 132 V 200 to 240 VAC 36 V min. 8.5 to 10.2 150 V max. 264 V 0.21 6 VDC 0.09 18.9 317 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

G7L-1A-T□ G7L-1A-B□		G7L-2A-T G7L-2A-B		G7L-1A-P G7L-2A-P	
Resistive load	Inductive load $(\cos\phi = 0.4)$	Resistive load	Inductive load $(\cos\phi = 0.4)$	Resistive load	Inductive load $(\cos\phi = 0.4)$
Double break					
Ag alloy					
30 A at 220 VAC 25 A at 220 VAC		25 A at	220 VAC	20 A at 2	220 VAC
30 A		25 A		20 A	
250 VAC					
30 A		25	5 A	20) A
	G7L-1A- Resistive load 30 A at 220 VAC 30	$\begin{array}{c c} G7L-1A-B \hline \\ \hline \\ Resistive \\ load \end{array} & Inductive load \\ (cos \phi = 0.4) \\ \hline \\ \hline \\ 30 \text{ A at } 220 \text{ VAC} & 25 \text{ A at } 220 \text{ VAC} \\ \hline \\ \hline \\ 30 \text{ A} \end{array}$	G7L-1A-B G7L Resistive load Inductive load (cosφ = 0.4) Resistive load Double brind 30 A at 220 VAC 25 A at 220 VAC 25 A at 250 VAC	$\begin{tabular}{ c c c c } \hline G7L-1A-B & G7L-2A-B & \\ \hline Resistive & Inductive load & load & load & load & \\ \hline load & (cos \phi = 0.4) & Double break & \\ \hline \hline S0 A at 220 VAC & 25 A at 220 VAC & 25 A at 220 VAC & \\ \hline 30 A at 220 VAC & 25 A at 220 VAC & 25 A & \\ \hline & 30 A & 25 A & \\ \hline \hline & 250 VAC & \\ \hline \hline \end{array}$	$ \begin{array}{c c c c c c c } \hline G7L-1A-B & G7L-2A-B & G7L \\ \hline G7L-1A-B & G7L & G7L \\ \hline Resistive \\ oad \\ (cos \phi = 0.4) \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$

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 time *2		30 ms max.	
Release time *3		30 ms max.	
Max. operating	Mechanical	1,800 operations/hr	
frequency	Rated load	1,800 operations/hr	
Insulation re		1,000 MΩ min	
	Between coil and contacts	4,000 VAC min., 50/60 Hz for 1 min	
Dielectric strength	Between contacts of same polarity	2,000 VAC, 50/60 Hz for	
ollongin	Between contacts of different polarity (DPST-NO model)	1 min	
Impulse with	nstand voltage	10,000 V between coil and contact *4	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
	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 (P level) (reference value *6)		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	

Measurement conditions: 5 VDC, 1 A, voltage drop *1.

method. Measurement conditions: Rated operating voltage applied, *2.

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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 (1.2×50µs). Ambient temperature: 28°C *3.

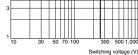
*4. *5. *6. Ambient temperature: 23°C This value was measured at a switching frequency of 60 operations/min.

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

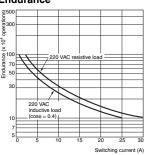
Engineering Data



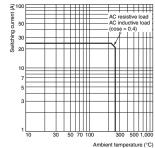
₹ 50 AC r Switching 30 20



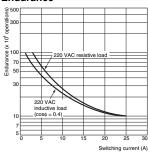
Endurance

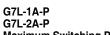


G7L-2A-T (TJ) (TUB) (TUBJ) G7L-2A-B (BJ) (BUB) (BUBJ) Maximum Switching Power

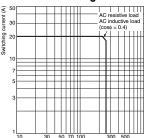


Endurance

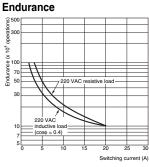




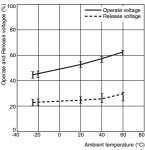
Maximum Switching Power



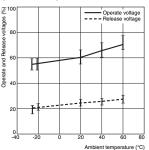
Switching voltage (V



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







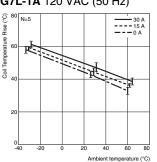
was measured after applying shock to the test piece 3 times

N = 5 Test method: The value at which malfunction occurr

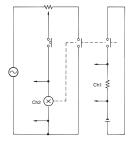
along 100m/

Standard:

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**



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Wave resulted from test

G7L-1A VDC

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30 A

60

Relays

Number c

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Ambient temperature (°C)

80

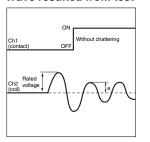
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õ N=5

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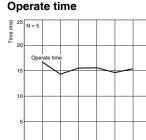
amper

Coil

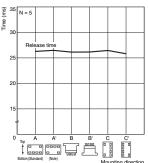


Characteristic variation resulted from different mounting directions G7L-2A-T (TUB) 100 to 120 VAC

(sm



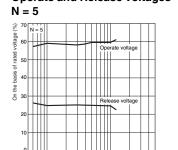
Release time



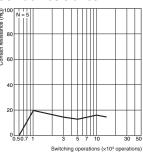
(Note.)The mounting direction A' deteriorates switching performance.

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

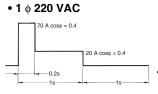
Top A A' B B' C C' C C' D C C'



Contact resistance



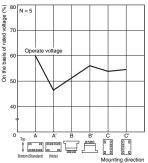
Load conditions



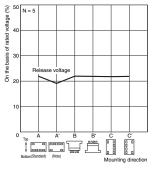
ns (x10⁴)

Applied coil voltage: 100% of rated voltage

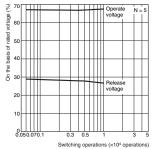
Operate voltage



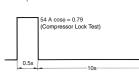
Release voltage



Operate and Release voltages N = 5

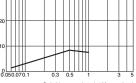


Load conditions



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Contact resistance



Switching operations (×10⁴ op

Applied coil voltage: 100% of rated voltage

Voltage distribution of wave e which

Unit: (m/s2)

Shock Malfunction

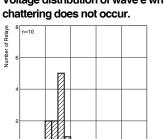
G7L-2A-T (TUB) 100 to 120 VAC

300

200

00

20 300

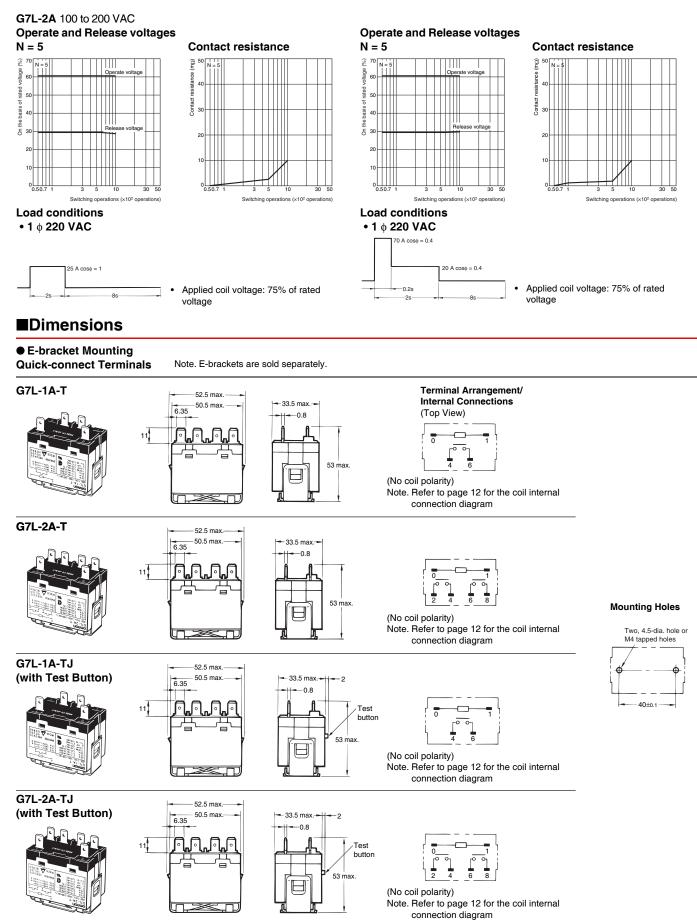


On the basis of rated voltage (%)

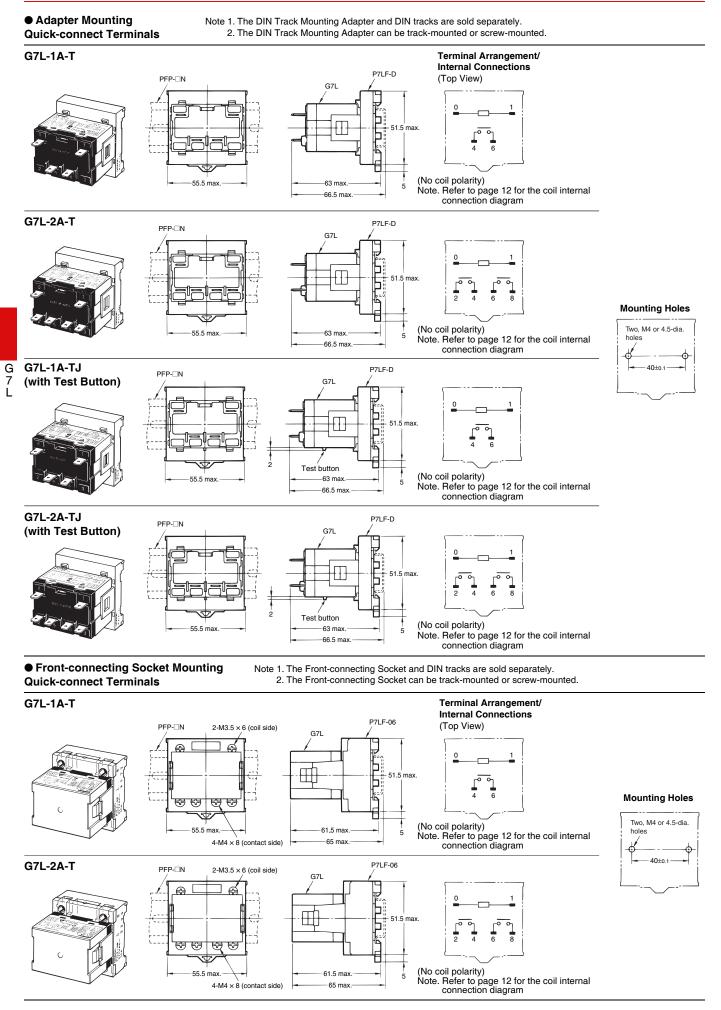
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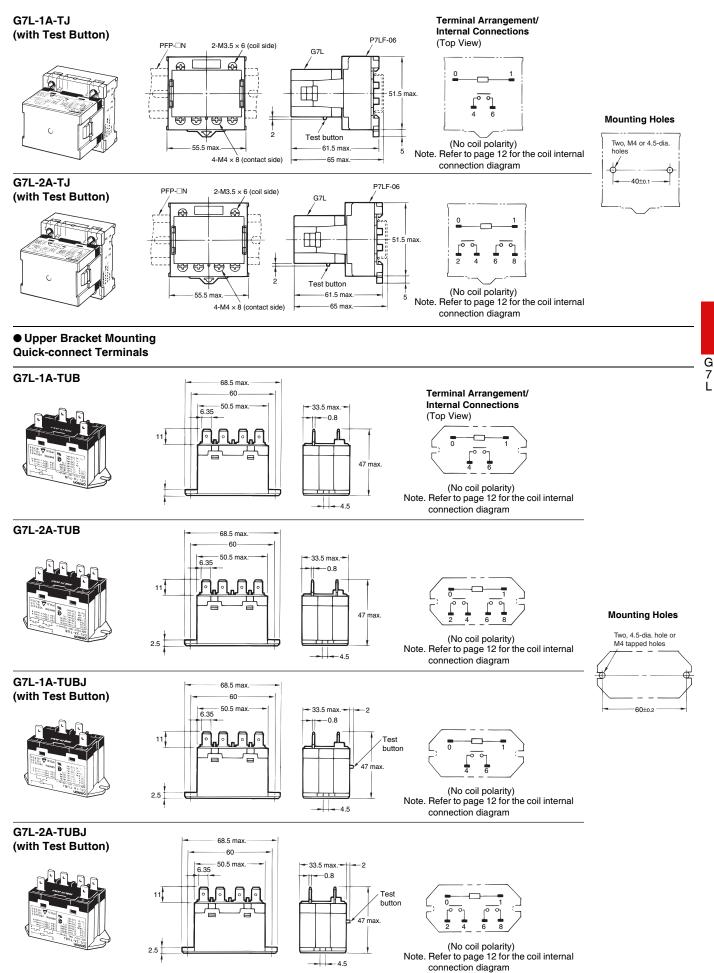
G7L

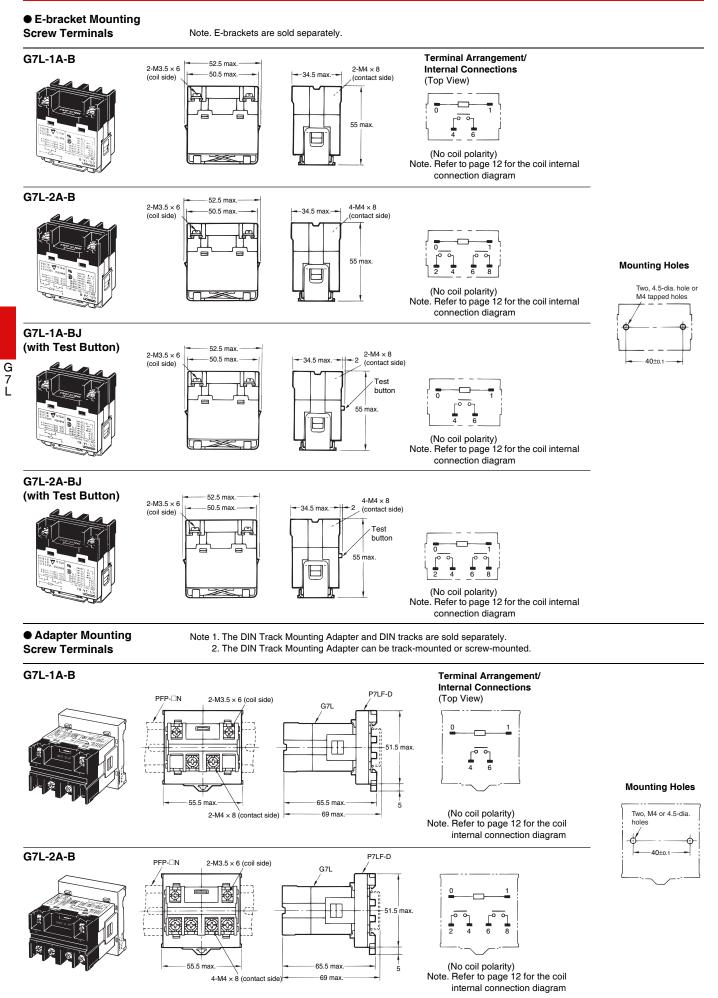
G 7 L

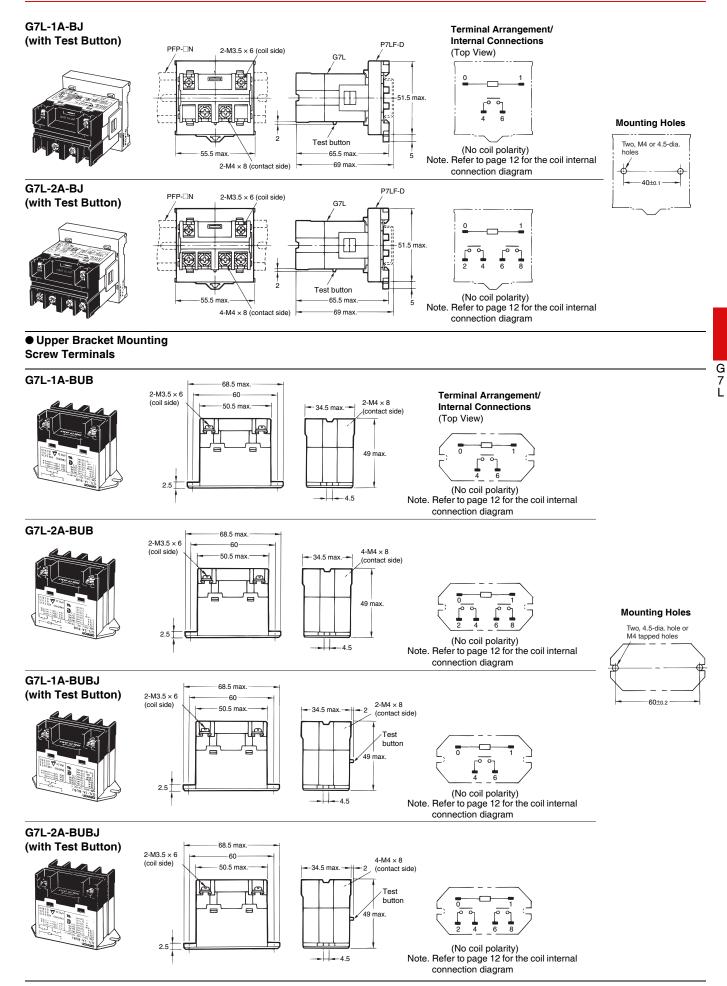


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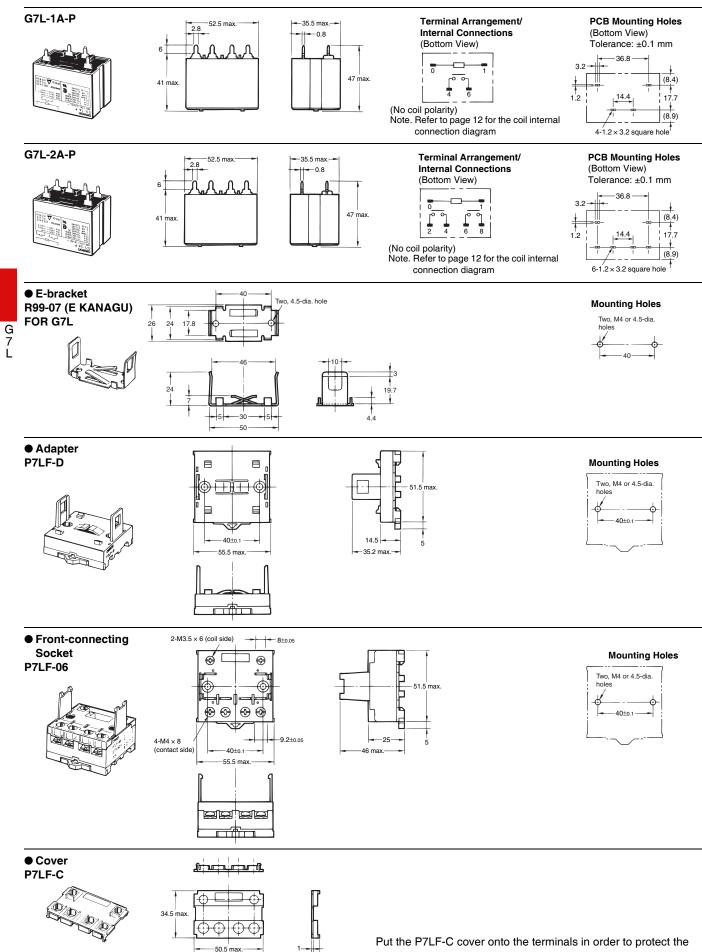






G7L

PCB Mounting **PCB Terminals**



1-

6 max. -

Put the P7LF-C cover onto the terminals in order to protect the user from electric shock.

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Approved Standards

 \cdot A variety of Safety Standard approved products for standard models.

UL Recognized 💫 (File No. E41643)

Model	Coil ratings	Contact ratings	Number of test operations
	G7L-1A-T G7L-1A-B G7L-1A-P G7L-1A-P 12 to 240 VAC G7L-2A-T 6 to 220 VDC	30 A, 277 VAC (RES) 40°C	100,000
		1.5 kW, 120 VAC (T) 40°C	6,000
•···=···=		1.5 HP, 120 VAC 40°C	1,000
•··· = ··· ·		3 HP 277 VAC 40°C	100,000
G7L-2A-B□		20 FLA/120 LRA, 120 VAC 40°C	30.000
G7L-2A-P	17 FLA/102 LRA, 277 VAC 40°C	30,000	
		TV-10, 120 VAC 40°C	25,000

CSA certified (File No. LR31928)

Model	Coil ratings	Contact ratings	Number of test operations	
		2.4 kW, 120 VAC (T) 40°C	6,000	
	10 10 040 1/40	1.5 HP, 120 VAC (T) 40°C	1,000	
G7L-1A-P	G7L-1A-P 12 to 240 VAC 6 to 220 VDC	3 HP 277 VAC 40°C		
		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

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

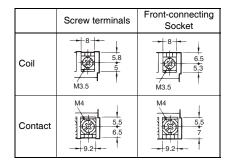
 The G7L is used for switching power loads, such as motor, transformer, solenoid, lamp, and heater loads. Do not use the G7L for switching micro loads, such as signals.

Soldering PCB Terminals

- Do not perform automatic soldering but solder manually.
- Solder with the following conditions: Soldering iron temperature (max.) 380°C, Soldering time within 10 seconds.
- 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

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)
- 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
- Refer to the following table for recommendations of connectors made by OMRON.

Туре	Receptacle terminals	Housing
#250 terminals (width: 6.35 mm)	XT3W-S441-12	
	XT3W-S442-12	XT3B-1S white
	XT3W-S443-12	

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

Reference Data

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

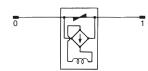
• Operating Coil

(Coil internal connections diagram)

DC Coil



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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