# **General Purpose Relay**

- 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 chatter-ing 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).

Туре	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)	SPST-NO	G7L-1A-TJ-CB	G7L-1A-BJ-CB	_		
(with test button)	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	SPST-NO	G7L-1A-TUBJ-CB	G7L-1A-BUBJ-CB	_		
(with test button)	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- 0 0 - 0 0 0 1 2 3 4 5 6

1. Contact form 1A:SPST-NO 2A:DPST-NO

2. Terminal shape T:Quick-connect terminals P:PCB terminals **B:Screw terminals** 

3. Mounting construction No symbol:E bracket type UB:Upper bracket type

4. Special functions No symbol:Without test button J:With test button

5. 80: VDE approved version (includes UL, CSA and TÜV)

6. CB: Class B insulation

7. Rated coil voltage

## Accessories

## **Quick-connect Terminals**

Description		Model			
		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					
		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

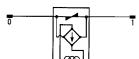
Load	G7L-1A-T, G7L-1A-B		G7L-2A-T, G7L-2A-B		G7L-1A-P, G7L-2A-P		
	Resistive load (cos  (cos  = 1)	Inductive load (cos	Resistive load (cos  (cos  = 1)	Inductive load (cos	Resistive load (cos  = 1)	Inductive load (cos	
Rated load	30 A, 220 VAC	25 A, 220 VAC	25 A, 220 VAC			20 A, 220 VAC	
Contact material	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:  $\lambda_{60} = 0.1 \text{ x } 10^{-6} \text{ operation.}$ 

# **■** Coil Internal Circuit

DC operating coil

AC operating coil



## **■** Coil Data

## AC

Rated voltage	Rated current	Resistance	Must operate	Must release	Max. voltage	Power
(V)	(mA)	<b>(</b> Ω <b>)</b>		% of rated voltage		consumption
6	283	18.90	75% max.	15% min.	110% max.	Approx.1.70
12	142	75				to 2.50 VA
24	71	303				
50	34	1,310				
100/120	17.00/20.40	5,260	75 volts	18 volts	132 volts	
200/240	8.50/10.20	21,000	150 volts	36 volts	264 volts	

## DC

Rated voltage	Rated current	Resistance $(\Omega)$	Must operate	Must release	Max. voltage	Power
(V)	(V) (mA)			consumption		
6	317	18.90	75% max.	15% min.	110% max.	Approx.1.90 W
12	158	75				
24	79	303				
48	40	1,220				
100	19	5,260				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of +15%/-20% for AC rated current and  $\pm 15\%$  for DC coil resistance.

# **■** Characteristics

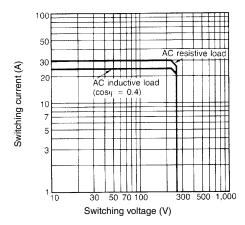
Contact resistance		50 mΩ max.		
Operate time		30 ms max.		
Release time		30 ms max.		
Max. operating Mechanical		1,800 operations/hour		
frequency	Electrical	1,800 operations/hour (under rated load)		
Insulation resistan	ce	1,000 MΩ min. (at 500 VDC)		
Dielectric strength		4,000 VAC, min./5,000 VAC typical, 50/60 Hz for 1 minute between coil and contacts		
		2,000 VAC, 50/60 Hz for 1 minute between contacts of same pole		
		2,000 VAC, 50/60 Hz for 1 minute between contacts of different poles (DPST-NO type)		
Impulse withstand	voltage	Between coil and contact: 10,000 V min./12,000 V typ. (impulse wave used: 1.20 x 50 μs)		
Vibration Mechanical durability		10 to 55 Hz; 1.50 mm (0.06 in) double amplitude		
	Malfunction durability	10 to 55 Hz; 1.50 mm (0.06 in) double amplitude		
Shock	Mechanical durability	1,000 m/s <sup>2</sup> (approx. 100 G)		
	Malfunction durability	1,000 m/s <sup>2</sup> (approx.10 G)		
Life expectancy	Mechanical	1,000,000 operations min. (at 1,800 operations/hour)		
	Electrical	100,000 operations min. (at 1,800 operations/hour under rated load 250,000 ops typical)		
Ambient temperatu	ire	-25° to 60°C (-13° to 140°F)		
Humidity		35% to 85% RH		
Weight		Quick-connect terminal type: approx. 90 g (3.17 oz)		
		PCB terminal type: approx. 100 g (3.52 oz)		
		Screw terminal type: approx. 120 g (4.23 oz)		

Note: Data shown are of initial value.

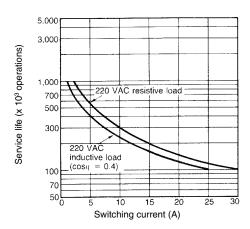
<sup>2.</sup> Performance characteristic data are measured at a coil temperature of 23°C (73°F).

## **■** Characteristic Data

#### Maximum switching capacity



#### **Electrical service life**

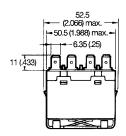


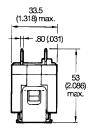
# **Dimensions**

Unit: mm (inch)

# **■** Relays

#### G7L-1A-T (E Bracket Attached)\*

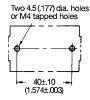




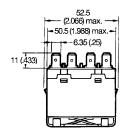
#### Terminal arrangement/ Internal connections (Top view)

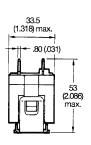


#### **Mounting holes** (Bottom view)



## G7L-2A-T (E Bracket Attached)\*

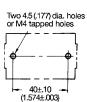




#### Terminal arrangement/ Internal connections (Top view)



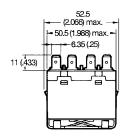
#### Mounting holes (Bottom view)

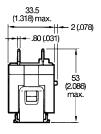


<sup>\*</sup> E bracket must be ordered separately.



#### G7L-1A-TJ (E Bracket Attached)\*

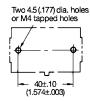




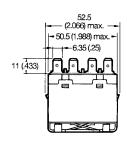
#### Terminal arrangement/ Internal connections (Top view)

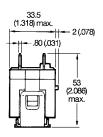


**Mounting holes** (Bottom view)



G7L-2A-TJ (E Bracket Attached)\*

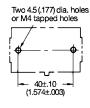




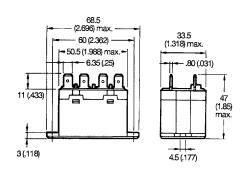
Terminal arrangement/ Internal connections (Top view)



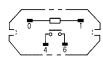
**Mounting holes** (Bottom view)



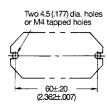
**G7L-1A-TUB** 



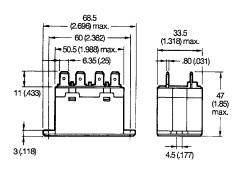
Terminal arrangement/ Internal connections (Top view)



**Mounting holes** (Bottom view)

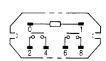


#### **G7L-2A-TUB**

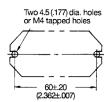


\*E bracket must be ordered separately.

Terminal arrangement/ Internal connections (Top view)



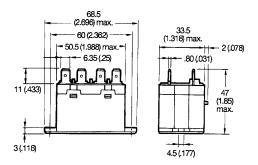
**Mounting holes** (Bottom view)



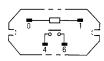


Unit: mm (inch)

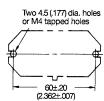
#### **G7L-1A-TUBJ**



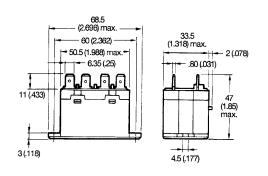
#### Terminal arrangement/ Internal connections (Top view)



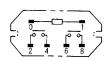
#### **Mounting holes** (Bottom view)



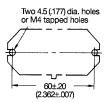
#### **G7L-2A-TUBJ**



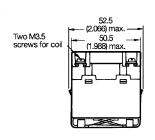
#### Terminal arrangement/ Internal connections (Top view)

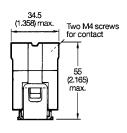


#### **Mounting holes** (Bottom view)



#### G7L-1A-B (E bracket Attached)\*

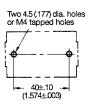




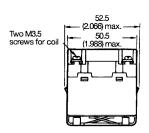
#### Terminal arrangement/ Internal connections (Top view)

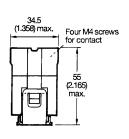


#### Mounting holes (Bottom view)



## G7L-2A-B (E bracket Attached)\*



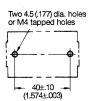


#### Terminal arrangement/ Internal connections (Top view)



# **Mounting holes**

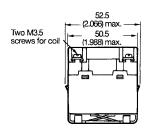
(Bottom view)

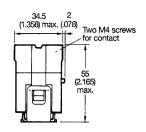


<sup>\*</sup> E bracket must be ordered separately.



#### G7L-1A-BJ (E bracket Attached)\*





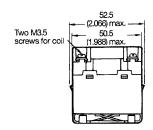
#### Terminal arrangement/ Internal connections (Top view)

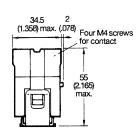


#### **Mounting holes** (Bottom view)



#### G7L-2A-BJ (E bracket Attached)\*

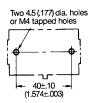




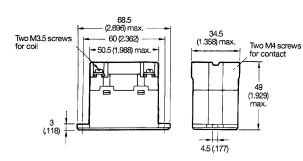
Terminal arrangement/ Internal connections (Top view)

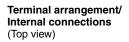


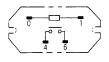
**Mounting holes** (Bottom view)



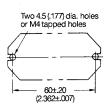
#### G7L-1A-BUB



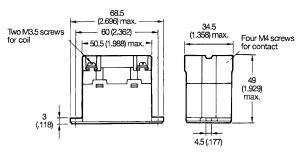




**Mounting holes** (Bottom view)

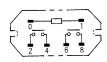


## G7L-2A-BUB



\* E bracket must be ordered separately.

#### Terminal arrangement/ Internal connections (Top view)



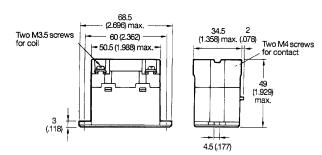
#### **Mounting holes** (Bottom view)



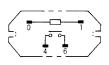


Unit: mm (inch)

#### **G7L-1A-BUBJ**



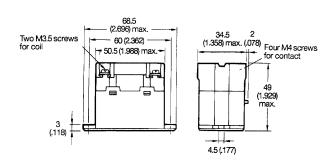
#### Terminal arrangement/ Internal connections (Top view)



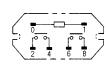
#### **Mounting holes** (Bottom view)

Two 4.5 (.177) dia. holes or M4 tapped holes 60±.20 (2.362±.007)

#### G7L-2A-BUBJ

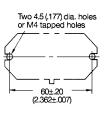


#### Terminal arrangement/ Internal connections (Top view)

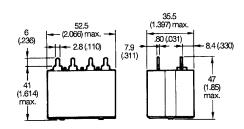


## Mounting holes

(Bottom view)



#### G7L-1A-P



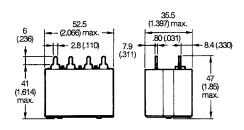
#### Terminal arrangement/ Internal connections (Top view)



#### **Mounting holes** (Bottom view)

17.7±.10 (.696±.003) 8.9 (.350) 14.4±.10 (.566±.003) 36.8±.10 \*(1.44±.003)

## G7L-2A-P

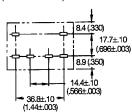


#### Terminal arrangement/ Internal connections (Top view)



## **Mounting holes**

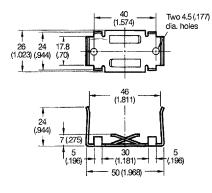
(Bottom view)

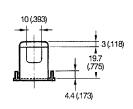


## Accessories

#### E bracket R99-07G5D





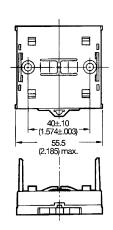


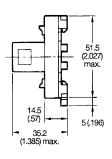
Mounting holes (Bottom view)



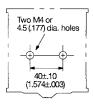
**Adaptor** P7LF-D



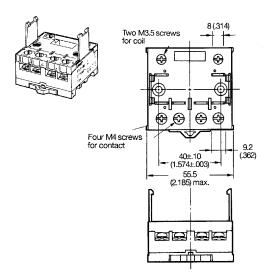


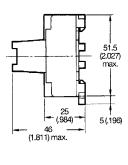


**Mounting holes** (Bottom view)

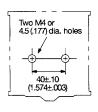


#### Front connecting socket P7LF-06





Mounting holes (Bottom view)

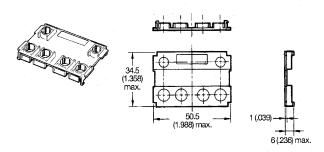


Note: 1. To protect against electric shock, a socket terminal cover is supplied with the P7LF-06 socket.

2. The P7LF-06 is panel or track mountable.

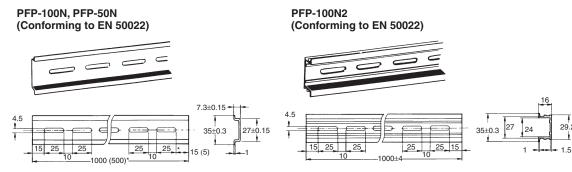
Unit: mm (inch)

#### Cover P7LF-C



Note: P7LF-C cover attaches directly to G7L-B style relays. To protect against electric shock, use the P7LF-C on G7L-B terminals.

#### **Mounting track**



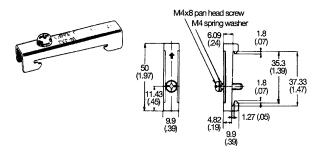
\* The figure in parenthesis is for PFP-50N.

Note: 1. It is recommended that a panel thickness of 1.60 to 2.00 mm (0.06 to 0.08 in) be used.

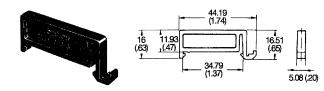
2. L = Length

PFP-100N L = 1 m (39.00 in)PFP-50N L = 50 cm (19.60 in)PFP-100N2 L = 1 m (39.00 in)

#### **End plate** PFP-M



#### **Spacer** PFP-S



# **■** Approvals

#### UL Recognized (File No. E41643) / CSA Certified (File No. LR35535) - - Ambient Temp. = 40°C

Туре	Contact form	Terminal type	Contact ratings
G7L-1A-T-CB	SPST-NO	Quick-connect	30 A, 277 VAC, General Use, 100,000 ops
G7L-1A-TJ-CB			1.5 kW, 120 VAC, Tungsten, 6,000 ops
G7L-1A-TUB-CB			1.5 HP, 120 VAC, 6,000 ops
G7L-1A-TUBJ-CB			3 HP, 277 VAC, 6,000 ops
G7L-1A-B-CB		Screw	20 FLA/120 LRA, 120 VAC, 30,000 ops
G7L-1A-BJ-CB			17 FLA/102 LRA, 265 VAC, 30,000 ops
G7L-1A-BUB-CB			TV-10, 120 VAC, 25,000 ops
G7L-1A-BUBJ-CB			
G7L-1A-P-CB		PCB	
G7L-2A-T-CB	DPST-NO	Quick-connect	
G7L-2A-TJ-CB			
G7L-2A-TUB-CB			
G7L-2A-TUBJ-CB			
G7L-2A-B-CB		Screw	
G7L-2A-BJ-CB			
G7L-2A-BUB-CB			
G7L-2A-BUBJ-CB			
G7L-2A-P-CB		PCB	

Note: Contact Omron for actual ratings marked on G7L relays

#### TÜV (File No. R9251551)

Туре	Contact form	Coil ratings	Terminal type	Contact ratings
G7L-1A-T-CB	SPST-NO	6, 12, 24, 48,	Quick-connect	25 A, 240 VAC, (cosφ = 1)
G7L-1A-TJ-CB		100, 110, 200,		25 A, 240 VAC, (cosφ = 0.4)
G7L-1A-TUB-CB		220 VDC		
G7L-1A-TUBJ-CB				
G7L-1A-B-CB		12, 24, 50,	Screw	30 A, 240 VAC, (cosφ = 1)
G7L-1A-BJ-CB		100/120, 200/240		25 A, 240 VAC, (cosφ = 0.4)
G7L-1A-BUB-CB		VAC		30 A, 240 VAC, (cosφ = 0.4)
G7L-1A-BUBJ-CB				
G7L-1A-P-CB			PCB	20 A, 240 VAC, (cosφ = 1)
				20 A, 240 VAC, (cosφ = 0.4)
G7L-2A-T-CB	DPST-NO		Quick-connect	25 A, 240 VAC, (cosφ = 1)
G7L-2A-TJ-CB				25 A, 240 VAC, (cosφ = 0.4)
G7L-2A-TUB-CB				
G7L-2A-TUBJ-CB				
G7L-2A-B-CB			Screw	25 A, 240 VAC, (cosφ = 1)
G7L-2A-BJ-CB				25 A, 240 VAC, (cosφ = 0.4)
G7L-2A-BUB-CB				
G7L-2A-BUBJ-CB				
G7L-2A-P-CB			PCB	20 A, 240 VAC, (cosφ = 1)
				20 A, 240 VAC, (cosφ = 0.4)

#### VDE recognized type (Licence no. 1530 UG)

Note: 1. Please consult OMRON for details of VDE approvals.

**2.** The G7L relay conforms to the following standards: Electrical safety: DIN IEC 255 Teil 1-00/DIN VDE 0435 Teil 201/05. 83

DIN VDE 0435 Teil 201 A1/05. 90

DIN IEC 255 Teil 0-20/DIN VDE 0435 Teil 120/10. 81

DIN EN 60 950/VDE 0805/11. 93

EMC: prEN 50082-2, EN 55022

- 3. The rated values approved by each of the safety standards (e.g., UL and CSA) may be different from the performance characteristics individually defined in this catalog.
- 4. In the interest of product improvement, specifications are subject to change.
- 5. Suffix T130 rated at 130°C
- 6. Pollution degree 3, Material Group II & III.

## **Precautions**

## ■ Handling

- To preserve initial performance, do not drop or otherwise subject the power relay to shock.
- The case is not designed to be removed during normal handling and operation. Doing so may affect performance.
- Use the power relay in a dry environment free from excessive dust, SO<sub>2</sub>, H<sub>2</sub>S, or organic gas.
- Do not allow a voltage greater than the maximum allowable coil voltage to be applied continuously.
- · Do not use the power relay outside of specified voltages and cur-
- Do not allow the ambient operating temperature to exceed the specified limit.

## ■ Installation

- · Although there are not specific limits on the installation site, it should be as dry and dust-free as possible.
- 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
- · Quick-connect terminals can be connected to fast on receptacle #250 and positive-lock connectors.
- · Allow suitable slack on leads when wiring, and do not subject the

# ■ Cleaning PCB Terminals

• PCB terminals have semi-sealed construction which prevents flux from entering the relay base. It is recommended that the user should apply a tape seal over the vent hole prior to wave soldering or cleaning. The tape should then be removed after processing.

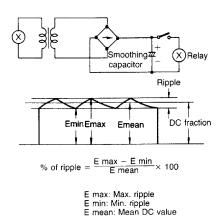
# ■ Applications

- · Compressors for package air conditioners and heater switching controllers
- · Switching controllers for power tools or motors
- Power controllers for water heaters
- · Power controllers for dryers
- Lamp control, motor drivers, and power supply switching in copy machines, facsimiles, and other OA equipment
- Lighting controllers
- Power controllers for packers or food processing equipment
- · Magnetron control in microwaves

# ■ Operating Coil

· As a rule, either a battery or a DC power supply with a maximum 5% ripple is used for the operating voltage for DC relays. Before using a rectified AC supply, confirm that the ripple is not greater than 5%. Ripple greater than this can lead to variations in the operating and reset voltages.

As excessive ripple can generate beats, the insertion of a smoothing capacitor is recommended as shown below.



- · When driving a transistor, check the leakage current and connect a bleeder resistor if necessary.
- · Momentary voltage drops on coil input voltage should not exceed one second duration after contact mating with no shock or vibra-

#### ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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- · Systems, machines, and equipment that could present a risk to life or property.

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