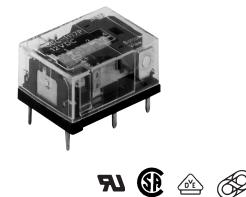
Power PCB Relay

- Subminiature 20.07 L x 14.99 W x 9.91 H mm (0.79 L x 0.59 W x 0.39 H in).
- Low power consumption (200 mW).
- Semi-sealed and sealed types available.
- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time.
- Single and double-winding latching types available.
- High sensitivity in a compact package.
- Long life assured by high contact pressure.



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G6C-1117P-US-DC6).

Туре	Contact form	Construction	Model
Non-latching	SPST-NO	Sealed	G6C-1114P-US
	SPST-NO + SPST-NC		G6C-2114P-US
	SPST-NO	Semi-sealed	G6C-1117P-US
	SPST-NO + SPST-NC		G6C-2117P-US
Single-winding latching contact	SPST-NO	Sealed	G6CU-1114P-US
	SPST-NO + SPST-NC		G6CU-2114P-US
	SPST-NO	Semi-sealed	G6CU-1117P-US
	SPST-NO + SPST-NC		G6CU-2117P-US
Dual-winding latching contact	SPST-NO	Sealed	G6CK-1114P-US
	SPST-NO + SPST-NC		G6CK-2114P-US
	SPST-NO	Semi-sealed	G6CK-1117P-US
	SPST-NO + SPST-NC		G6CK-2117P-US

Accessories

Back Connecting Sockets

Relay	Model
G6C-1114P-US	P6C-06P
G6C-1117P-US	
G6C-2114P-US	
G6C-2117P-US	
G6CU-1114P-US	
G6CU-1117P-US	
G6CU-2114P-US	
G6CU-2117P-US	
G6CK-1114P-US	P6C-08P
G6CK-1117P-US	
G6CK-2114P-US	
G6CK-2117P-US	

■ Contact Data

Non-latching

Load	S	PST-NO	SPST-NO + SPST-NC				
	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)			
Rated load	10 A at 250 VAC	5 A at 250 VAC	8 A at 250 VAC	3.5 A at 250 VAC			
	10 A at 30 VDC	5 A at 30 VDC	8 A at 30 VDC	3.5 A at 30 VDC			
Contact material	Ag-Alloy						
Carry current	10 A		8 A				
Max. operating voltage	380 VAC, 125 VDC						
Max. operating current	10 A		8 A				
Max. switching capacity	2,500 VA, 300 W	1,250 VA, 220 W	2,000 VA, 240 W	875 VA, 170 W			
Min. permissible load	10 mA, 5 VDC		I				

Latching

Load	S	PST-NO	SPST-NO + SPST-NC				
	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)			
Rated load	10 A at 250 VAC	5 A at 250 VAC	8 A at 250 VAC	3.5 A at 250 VAC			
	10 A at 30 VDC	5 A at 30 VDC	8 A at 30 VDC	3.5 A at 30 VDC			
Contact material	Ag-Alloy						
Carry current	10 A		8 A				
Max. operating voltage	380 VAC, 125 VDC						
Max. operating current	10 A		8 A	3.5 A			
Max. switching capacity	2,500 VA, 300 W	1,250 VA, 220 W	2,000 VA, 240 W	875 VA, 105 W			
Min. permissible load	10 mA, 5 VDC	•	•				

■ Coil Data

Non-latching

Rated	Rated	Coil		uctance lue) (H)	Pick-up	Dropout	Maximum	Power
voltage (VDC)	current (mA)	resistance (Ω)	Armature OFF			voltage voltage % of rated voltage		
、 ,	· · /	()	UFF	UN		% of rated volta	age	. ,
3	66.70	45	0.078	0.067	70% max.	10% min.	160% max.	Approx. 200
5	40	125	0.22	0.18			age voltage consumpti ted voltage (mW)	
6	33.30	180	0.36	0.29	-			
12	16.70	720	1.32	1.13	-			
24	8.30	2,880	4.96	4.19			(156 F)	

Single-winding Latching Type

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)	Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption	
(VDC)	(mA)	(Ω))	(mw)		
3	66.70	45	0.09	70% max.	70% min.	160% max.	Approx. 200	
5	40	125	0.25			at 23°C (73°F)		
6	33.30	180	0.36			130% max.	voltage consumption (mW) 0% max. Approx. 200 23°C (73°F) 0% max.	
12	16.70	720	1.75			at 70°C		
24	8.30	2,880	5.83			(156 F)		

Note: The rated current and coil resistance are measured at a coil temperature of 23° C (73° F) with a tolerance of $\pm 10\%$.

■ Coil Data

Dual-winding Latching Type

Rated voltage	Rated current	current resistance		luctance Ilue) (H)	Set pick-up	Reset pick-up	Maximum voltage	Power consumption
(VDČ)	(mA)	(Ω)	Set	Reset	voltage	voltage		(mW)
			Coil	Coil	%	6 of rated voltage	ge	nax. Approx. 280
3	93.50	32.10	0.03	0.03	70% max.	70% max.	160% max.	Approx. 280
5	56	89.30	0.07	0.08]		at 23°C (73°F)	
6	46.70	129	0.10	0.12]		110% max.	
12	23.30	514	0.37	0.47]		at 70°C (158°F)	
24	11.70	2,056	1.56	1.46]		(156 F)	

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.

2. Operating characteristics are measured at a coil temperature of 23°C (73°F).

3. The minimum pulse width of the set and reset voltage is 20 ms.

■ Characteristics

		Non-latching	Latching						
Contact resistance		30 mΩ max.							
Operate (set) time		10 ms max. (mean value: approx. 5 ms)							
Release (reset) time		10 ms max. (mean value: approx. 2 ms)							
Bounce time	Operate	Approx. 3 ms							
	Release	Approx. 3 ms							
Operating	Mechanical	18,000 operations/hour							
frequency	Electrical	1,800 operations/hour (under rated load)							
Insulation resistance		1,000 MΩ min. (at 500 VDC)							
Dielectric strength		2,000 VAC, 50/60 Hz for 1 minute between co	oil and contacts, non-latching types						
	electric strength	2,000 VAC, 50/60 Hz for 1 minute between contacts of different poles, non-latching							
		1,000 VAC, 50/60 Hz for 1 minute between co	ontacts of same pole, non-latching						
		250 VAC, 50/60 Hz for 1 minute between set	and reset coils, latching types						
Surge withstand voltage	ge	4,500 V x 40 µs (between coil and contacts,	non-latching)						
Vibration	Mechanical durability	10 to 55 Hz; 1.50 mm (0.06 in) double amplit	ude						
	Malfunction durability	10 to 55 Hz; 1.50 mm (0.06 in) double amplit	ude						
Shock	Mechanical durability	Approx. 100 G							
	Malfunction durability	Approx. 10 G							
Ambient temperature		-25 to 70°C (-13° to 158°F)							
Humidity		45 to 85% RH							
Service life	Mechanical	50 million operations min. (at operating frequ	ency of 18,000 operations/hour)						
	Electrical	See "Characteristic Data"							
Weight		Approx. 5.6 g (0.20 oz)							

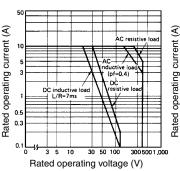
Note: Data shown are of initial value.

■ Characteristic Data

Non-latching Types

Maximum switching capacity

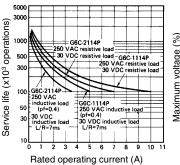
SPST-NO

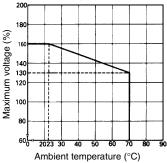


SPST-NO + SPST-NC



Ambient temperature maximum voltage (reference only)

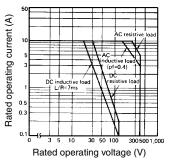




Latching Types

Maximum switching capacity

SPST-NO



SPST-NO + SPST-NC

DC inductive le L/R=7ms

3 5 10

Rated operating voltage (V)

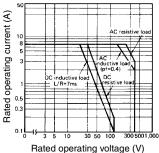
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DC

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Electrical service life

VDC resistive l

G6C-1114P 250 VAC in (pf=0.4) 30 VDC ind L/R=7ms

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Rated operating current (A)

induct

inductive lo

G6C-1114

5000

300

100

50

30

10

50

30

10 L 0

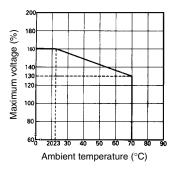
nductive load (pf=0.4)

30 VDC inductive load L/R=7ms

2 3 4 5 6 7 8 9

Service life (x10³ operations)

Ambient temperature maximum voltage (reference only)

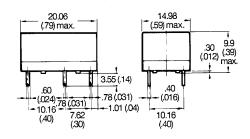


Dimensions

Unit: mm (inch)

■ Non-latching Relays

G6C-D117P-US

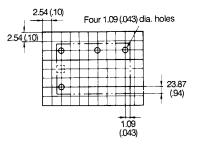


Terminal arrangement/ Internal connections (Bottom view)

G6C-1117P-US, G6C-1114P-US

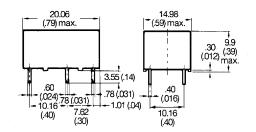


Mounting holes [Bottom view, Tolerance ±2.54 (0.10)]



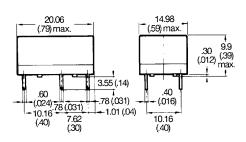
Note: Z and indicate mounting orientation marks.

G6C-D114P-US

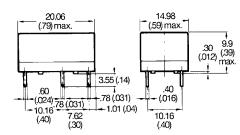


■ Latching Relays

Single winding types, 1-pole G6CU-1117P-US, G6CU-1114P-US



Single winding types, 2-pole G6CU-2117P-US, G6CU-2114P-US



Note: 22 and indicate mounting orientation marks.

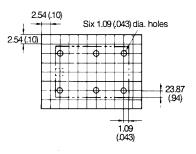
Terminal arrangement/ Internal connections (Bottom view)

G6C-1117P-US, G6C-1114P-US

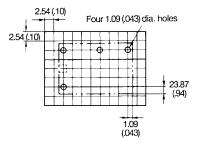


Mounting holes

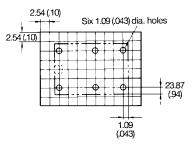
[Bottom view, Tolerance ±2.54 (0.10)]



Mounting holes (Bottom view)



Mounting holes (Bottom view)



Terminal arrangement/ Internal connections (Bottom view)

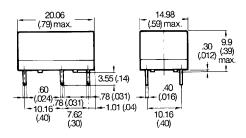


Terminal arrangement/ Internal connections

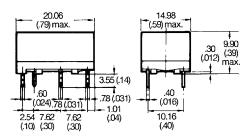
(Bottom view)

Unit: mm (inch)

Double winding types, 1-pole G6CK-1117P-US, G6CK-1114P-US



Double winding types, 2-pole G6CK-2117P-US, G6CK-2114P-US



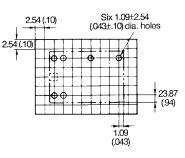
Terminal arrangement/ Internal connections (Bottom view)



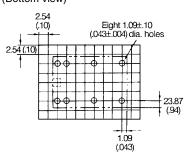
Terminal arrangement/ Internal connections

(Bottom view)

Mounting holes (Bottom view)

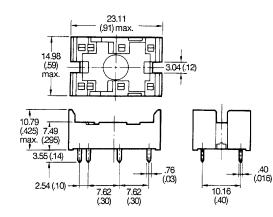


Mounting holes (Bottom view)



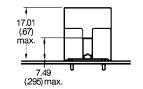
Accessories

Connecting sockets - P6C-06P, P6C-08P



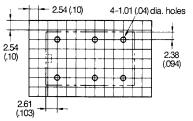
Note: And indicate mounting orientation marks.

Mounting height of relay width connecting socket

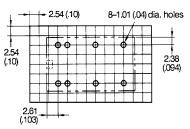


Mounting holes (Bottom view)

P6C-06P



P6C-08P



■ Approvals

UL (File No. E41643)/CSA (File No. LR31928)

Туре	Contact form	Coil rating	Contact ratings
G6C-1114P-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose)
G6C-1117P-US			10 A, 30 VDC (Resistive)
			TV-5
			1/4 HP, 125 VAC
			1/4 HP, 250 VAC (Motor load)
			1/3 HP, 250 VAC (Motor load)
			600 WT, 120 VAC (Tungsten)
			530 VA, 265 VAC, 2 A max. pilot duty
			43.2 VA, 30 VDC, pilot duty
			22 LRA, 3.6 FLA, 30 VDC
			B300 pilot duty
G6C-2114P-US	SPST-NO +	3 to 60 VDC	8 A, 250 VAC (General purpose)
G6C-2117P-US	SPST-NC		8 A, 30 VDC (Resistive)
			TV-5
			1/4 HP, 125 VAC
			1/4 HP, 250 VAC (Motor load)
			600 WT, 120 VAC (Tungsten)
			530 VA, 265 VAC, 2 A max. pilot duty
			43.2 VA, 30 VDC, pilot duty
			22 LRA, 3.6 FLA, 30 VDC
			B300/R300 pilot duty
G6C(U/K)-1114P-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose)
G6C(U/K)-1117P-US			10 A, 30 VDC (Resistive)
			1/6 HP, 125 VAC (Motor load)
			TV-5
			1/4 HP, 125 VAC
			1/4 HP, 250 VAC (Motor load)
			1/3 HP, 250 VAC (Motor load)
			600 WT, 120 VAC (Tungsten)
G6C(U/K)-2114P-US	SPST-NO +	3 to 60 VDC	8 A, 250 VAC (General purpose)
G6C(U/K)-2117P-US	SPST-NC		8 A, 30 VDC (Resistive)
			1/6 HP, 125 VAC (Motor load)
			TV-5
			1/4 HP, 125 VAC
			1/4 HP, 250 VAC (Motor load)
			1/3 HP, 250 VAC (Motor load)
			600 WT, 120 VAC (Tungsten)

VDE (File No. 2314)

Туре	Contact form	Coil rating	Contact ratings
G6C-1117P-VD	SPST-NO	DC3, 12, 24V	250 VAC
G6C-1114P-VD			10 A (Resistive)
			5 A (Inductive)
G6C-2117P-VD	SPST-NO +	DC3, 12, 24V	250 VAC
G6C-2114P-VD	SPST-NC		7 A (Resistive)
			3.5 A (Inductive)

Note: 1. 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.

2. In the interest of product improvement, specifications are subject to change.

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Terms and Conditions of Sale

- Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronic Components LLC ("Seller"). Seller hereby objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Prices: Payment. All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated 2. the invoice
- Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Seller's 3
- payment terms and (ii) Buyer has no past due amounts owing to Seller. <u>Currencies</u>. If the prices quoted herein are in a currency other than U.S. dol lars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller and which is available on the due date; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dol-lars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the impor-tation or sale of the Products. 5.
- Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties) 6. and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- Financial. If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise 7. comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid
- Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in 8. connection therewith
- Force Majeure. Seller shall not be liable for any delay or failure in delivery 9. resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the
- <u>Shipping: Delivery</u>. Unless otherwise expressly agreed in writing by Seller:
 <u>Shipping: Delivery</u>. Unless otherwise expressly agreed in writing by Seller:
 <u>Shipping: Sellivery</u>. Sellivery is the sellivery of the sellivery of the sellivery of the sellivery of the sellivery.
 - Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
 - 3 All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buver:
- paid by Buyer;
 4. Delivery and shipping dates are estimates only.
 5. Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
 11. <u>Claims</u>. Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products from Seller in the condition claimed.

- <u>Warranties</u>. (a) <u>Exclusive Warranty</u>. Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). Seller disclaims all other warranties, express or implied. (b) Limitations. SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Seller further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or othany type for claims of expenses based on infringement by the Products of oth-erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Seller's sole obli-gation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that in no event shall Seller be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Seller's analysis confirms that the Products were properly handled, stored, installed and maintained and not sub-iect to contamination, abuse, misuse or inappropriate modification. Return of ject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment. Seller shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies, or any other materials or substances or environ-
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- of another party. <u>Property: Confidentiality</u>. The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials sup-plied by Seller to Buyer relating to the Products are confidential and propri-etary, and Buyer shall limit distribution thereof to its trusted employees and
- etary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
 16. <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Seller's written consent. (c) <u>Law</u>. These Terms are governed by Illinois law (without regard to conflict of law principles). Federal and state courts in Illinois shall have exclusive jurisdiction for any dispute hereunder. (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provision hereof is rendered ineffective or invalid such provision shall not invalidate any hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) <u>Setoff</u>. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.. (g) <u>Definitions</u>. As used herein, "including" means "including without limitation".

Certain Precautions on Specifications and Use

- Suitability for Use. Seller shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product this responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:

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 (ii) Cutdoor use, or conditions or uses not described in this document.
 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to
 - separate industry or government regulations.
 - (iii)Use in consumer products or any use in significant quantities. (iv)Systems, machines and equipment that could present a risk to life or
 - property. Please know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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