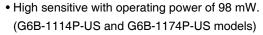
G6B PCB Power Relay

High Capacity and High Dielectric Strength Miniature Relay with Fully Sealed Construction in 5 A (8 A) SPST-NO(1a), SPST-NO+SPST-NC(1a1b), DPST-NO(2a), DPST-NC(2b) Types



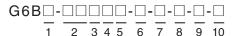
- High insulation with dielectric strength of 3,000VAC
 between coil and contacts (impulse withstand voltage of 6 kV).
- Stick packing models are provided in consideration of compatibility to the automatic production line.
- Standard model conforms to UL/CSA standards. Other SEV approved models are also available.
- AgSnIn contacts suitable for loads that generate surge voltage (inductive load, capacity load, etc.) available. (-FD type)
- Ultrasonic cleanable models available. (-U type)
- Operation indicator & built-in surge absorption diode available. (-ND type)
- 2-Pole type available.

RoHS Compliant



• Ideal for output applications of control equipments

■Model Number Legend



1. Relay Function

None: Single-side stable

U : Single-winding latching (G6B□-1114 models only)

K : Double-winding latching (G6B□-1114 models only)

2. Contact Form

21: SPST-NO + SPST-NC

22: DPST-NO 20: DPST-NC 11: SPST-NO

3. Classification

1: Standard

7: High-capacity

4. Enclosure rating

4: Fully sealed

7: Flux protection

5. Terminal Shape

P: PCB terminals

Socket mounting terminals

6. Contact material

None: Standard (Ag-alloy (Cd free))

FD: AgSnIn contact

(Suitable for DC inductive load with

high inrush current)

7. Operation Indicator Diode Availability

FL (1)

None: Standard

ND : Operation indicator & coil surge

absorption diode (for -1177 type only)

8. Approved Standards

US: UL/CSA

9. Washability

None: Standard

U : For ultrasonically cleanable

10. Mounting

None: Mounted directly to PCB P6B: Mounted to Socket

■Ordering Information

● Standard Models (UL, CSA certified)

Number			Standard (Ag-allo	oy (Cd free))	AgSnIn co	ntact	Minimum	
of poles	Relay Function	Contact form	Model	Rated coil voltage	Model	Rated coil voltage	packing unit	
	Single-side stable	SPST-NO (1a) (Standard)	G6B-1114P-US	5, 6, 12, 24 VDC	G6B-1114P-FD-US	5, 6, 12, 24 VDC	100 pcs/tray	
	Olligie-side stable	SPST-NO (1a) (High-capacity)	G6B-1174P-US	5, 6, 12, 24 VDC	G6B-1174P-FD-US	5, 6, 12, 24 VDC	20 pcs/tube	
1-pole	Single-winding latching	SPST-NO (1a) (Standard)	G6BU-1114P-US	5, 6, 12, 24 VDC	G6BU-1114P-FD-US	5, 12, 24 VDC	100	
	Double-winding latching	SPST-NO (1a) (Standard)	G6BK-1114P-US	5, 6, 12, 24 VDC	G6BK-1114P-FD-US	5, 6, 12, 24 VDC	pcs/tray	
	Single-side stable	SPST-NO (1a) (Built-in high-capacity operation indicator & diode)	G6B-1177P-ND-US	5, 12, 24 VDC	G6B-1177P-FD-ND-US	5, 12, 24 VDC	20 pcs/tube	
		SPST-NO (1a)+ SPST-NC (1b) (Standard)	G6B-2114P-US	5, 6, 12, 24 VDC	G6B-2114P-FD-US	5, 6, 12, 24 VDC		
2-pole	Single-side stable	DPST-NO (2a) (Standard)	G6B-2214P-US	5, 6, 12, 24 VDC	G6B-2214P-FD-US	5, 6, 12, 24 VDC	100 pcs/tray	
		DPST-NC (2b) (Standard)	G6B-2014P-US	5, 6, 12, 24 VDC	G6B-2014P-FD-US	5, 6, 12, 24 VDC		

Note: AgSnIn contact models are highly welding-resistant, and roughening of contacts due to inrush current and inductive load is lessened.

Models for Ultrasonically Cleanable

Number		Contact material	Standard (Ag-allo	oy (CD free))	AgSnIn co	ontact	Minimum
of poles	Relay Function	Contact form	Model	Rated coil voltage	Model	Rated coil voltage	packing unit
	Single-side stable	SPST-NO (1a) (Standard)	G6B-1114P-US-U	5, 6, 12, 24 VDC	G6B-1114P-FD-US-U	6, 12, 24 VDC	
1-pole	Single-winding latching	SPST-NO (1a) (Standard)	G6BU-1114P-US-U	24 VDC	-	-	
	Double-winding latching	SPST-NO (1a) (Standard)	G6BK-1114P-US-U	5, 6, 12, 24 VDC	G6BK-1114P-FD-US-U	12, 24 VDC	100
		SPST-NO (1a)+ SPST-NC (1b) (Standard)	G6B-2114P-US-U	5, 12, 24 VDC	G6B-2114P-FD-US-U	5, 12, 24 VDC	pcs/tray
2-pole	Single-side stable	DPST-NO (2a) (Standard)	G6B-2214P-US-U	5, 6, 12, 24 VDC	G6B-2214P-FD-US-U	5, 12, 24 VDC	
		DPST-NC (2b) (Standard)	G6B-2014P-US-U	5, 12, 24 VDC	G6B-2014P-FD-US-U	5, 12, 24 VDC	

Note: When ordering, add the rated coil voltage to the model number. Example: G6B-1114P-US DC5

Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as $\square\square$ VDC.

Connecting Sockets (Sold Separately)

• ,	• • • • • • • • • • • • • • • • • • • •		
Applicable relay	Model	Minimum ordering unit	
G6B-1114P(-FD)-US-P6B G6B-1174P(-FD)-US-P6B G6B-1177P(-FD)-ND-US-P6B G6BU-1114P-US-P6B	P6B-04P	20	
G6BK-1114P-US-P6B	P6B-06P	20 pcs	
G6B-2114P-US-P6B G6B-2214P-US-P6B G6B-2014P-US-P6B	P6B-26P		
Removal Tool	P6B-Y1	1 000	
Hold-down Clips	P6B-C2	1 pcs	

- Note 1. G6B-1174P-US-P6B and G6B-1177P-ND-US-P6B are rated for 8 A when mounted on a PCB. However, when used with the P6B-04P socket models, the allowable current is derated to 5 A.
 - 2. The P6B sockets are designed to be used with G6B-_\P(-FD)-US-P6B relays. Only use G6B relays that include "-P6B" in their model numbers with the sockets. Do not use standard G6B's that omit "-P6B" from their model numbers with the sockets.
 - 3. The hold-down clips of the P6B-C2 model are not suitable for the G6B-1174P and G6B-1177P models since they have different heights.
 - 4. Products with UL/CSA certification marks will be supplied for orders of standard models.

■Ratings

● Coil: 1-Pole, Single-side Stable Type (Including models for ultrasonically cleanable)

Item	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
Rated voltage	(IIIA)	(52)	%	(11100)		
5 VDC	40	125				
6 VDC	33.3	180	70% max.	10% min.	160%	Approx. 200
12 VDC	16.7	720	70 % IIIax.	10 /6 111111.	(at 23°C)	Арріох. 200
24 VDC	8.3	2,880				

● Coil: 2-Pole, Single-side Stable Type (Including models for ultrasonically cleanable)

Item	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
Rated voltage	(IIIA)	(52)	%	of rated voltag	(IIIVV)	
5 VDC	60	83.3				
6 VDC	50	120	80% max.	10% min.	140%	Approx. 300
12 VDC	25	480	00 /6 IIIax.	10 /6 111111.	(at 23°C)	Арріох. 300
24 VDC	12.5	1,920				

● Coil: Single-winding Latching Type (Including models for ultrasonically cleanable)

Item	Rated current	Coil resistance (Ω)	Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power cor	nsumption
Rated voltage	(mA)		%	of rated volta	Set coil (mW)	Reset coil (mW)	
5 VDC	40	125					
6 VDC	33.3	180	70% max.	70% max.	160% (at 23°C)	200	200
12 VDC	16.7	720	70% max.				
24 VDC	8.3	2,880					

● Coil: Double-winding Latching Type (Including models for ultrasonically cleanable)

Item	Rated cur	rrent (mA)	Coil resistance (Ω)		Must set voltage (V)	age Must reset voltage (V) Max. voltage (V)		Power consumption	
Rated voltage	Set coil	Reset coil	Set coil	Reset coil	% of rated voltage			Set coil (mW)	Reset coil (mW)
5 VDC	56	56	89.2	89.2					
6 VDC	46.8	46.8	128.5	128.5	70% max.	70% max.	130% (at 23°C)	280	280
12 VDC	23.3	23.3	515	515	70 /o Illax.				
24 VDC	11.7	11.7	2,060	2,060					

● Coil: Operation Indicator Model (Flux-resistant type. Do not wash down with water.)

Item	Rated current (mA)	Coil resistance (Ω)	voltage (v)			Power consumption (mW)
5 VDC	43	116			1000/	Approx. 200
12 VDC	19.7	610	70% max.	10% min.	130% (at 23°C)	Approx. 240
24 VDC	11.3	2,120			(4.200)	Approx. 275

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

- 2. The operating characteristics are measured at a coil temperature of 23°C.
- 3. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

Contacts

		G6B-1114	P-US			G6B-2114	4P-US	
		G6BU-111	4P-US	G6B-1174P-US		G6B-2214P-US		
	Model	G6BK-111	4P-US	G6B-1177F	P-ND-US	G6B-2014P-US		
	Model	G6B-1114	P-FD-US	G6B-1174P-FD-US		G6B-211	4P-FD-US	
		G6BU-1114P-FD-US G6BK-1114P-FD-US		G6B-1177F	G6B-1177P-FD-ND-US		4P-FD-US	
						G6B-2014P-FD-US		
	Load	Resistive load	Inductive load	Resistive load	Inductive load	Resistive load	Inductive load	
Item		Hesistive load	$(\cos\phi = 0.4; L/R = 7 ms)$	Hesistive load	$(\cos\phi = 0.4; L/R = 7 ms)$	Hesistive load	$(\cos\phi = 0.4; L/R = 7 ms)$	
Contact type			•	Sir	ngle			
Contact material				Ag-Alloy (Cd free)				
Datadland		5 A (3 A) at 250 VAC	2 A (2 A) at 250 VAC	8 A (5 A) at 250 VAC	2 A (2 A) at 250 VAC	5 A (3 A) at 250 VAC	1.5 A (1.5 A) at 250 VAC	
Rated load		5 A (3 A) at 30 VDC	2 A (2 A) at 30 VDC	8 A (5 A) at 30 VDC	2 A (2 A) at 30 VDC	5 A (3 A) at 30 VDC	1.5 A (1.5 A) at 30 VDC	
Rated carry current 5 A (5 A)			8 A	(5 A)	5 A (5 A)			
Max. switching voltage			380 VAC, 125 VDC					
Max. switching current		5 A	(5 A)	8 A (5 A)		5 A (5 A)		

Note 1. The values in the parentheses () are for -FD models only.

2. Use the -FD type for inductive load and switching load which contact roughening is small.

■Characteristics

	Model	G6B-1114P-US G6B-1114P-FD-US G6B-1174P-US G6B-1174P-FD-US	G6BU-1114P-US	G6BK-1114P-US	G6B -1177P(-FD)-ND-US	G6B-2114P-US G6B-2114P-FD-US G6B-2214P-US G6B-2214P-FD-US G6B-2014P-US G6B-2014P-FD-US	
Item	Classification	Single-side stable	Single-winding latching	Double-winding latching	Built-in operation indicator & surge absorption diode	Single-side stable	
Contact resistance	*1			30 m Ω max.			
Operate (set) time				10 ms max.			
Release (reset) tim	e			10 ms max.			
Min. set pulse width	า	_	15 ms (at 23°C)	-	-	
Min. reset pulse wid		ı	15 ms (at 23°C)	-	-	
Insulation resistance	e *2			1,000 M Ω min.			
	Between coil and contacts	3,000 VAC, 50/	60 Hz for 1 min	2,000 VAC, 50/60 Hz for 1 min			
Dielectric strength	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min					
Dielectric strength	Between contacts of different polarity	-				2,000 VAC, 50/60 Hz for 1 min	
	Between set and reset coils	-	-	250 VAC, 50/60 Hz for 1 min	_		
Impulse withstand	voltage (between coil and contacts)	$6 \text{ kV } 1.2 \times 50 \mu\text{s}$	4.5 kV 1.	.2 × 50 μs	6 kV 1.2	× 50 μs	
Vibration	Destruction	10	to 55 to 10 Hz, 0.75 n	nm single amplitude (1	.5 mm double amplitu	de)	
resistance	Malfunction	10	to 55 to 10 Hz, 0.75 n	nm single amplitude (1	1.5 mm double amplitu	de)	
Shock resistance	Destruction			1,000 m/s ²			
SHOCK TESISTATICE	Malfunction	100 m/s ²	300	m/s ²	100	m/s ²	
Durability	Mechanical		50,000,000 ope	erations min. (at 18,00	0 operations/hr)		
Electrical			100,000 operation m	in. (at 1,800 operation	s/hr under rated load)		
Failure rate (P leve	l) (reference value) *3			10 mA at 5 VDC			
Ambient operating	temperature	-25°C to 70°C (with no icing or condensation)					
Ambient operating	humidity	5% to 85%					
Weight		Approx. 3.5 to 4.6 g	Approx. 3.5 g	Approx. 3.7 g	Approx. 5.4 g	Approx. 4.5 g	

- Note 1. The values here are initial values.

 2. The G6B-1177P(-FD)-ND model is flux-resistant. Do not wash it down with water.

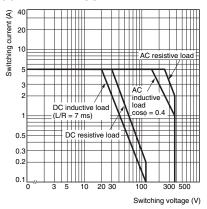
 *1. The contact resistance was measured with 1 A at 5 VDC using a voltage-drop method.

 *2. Measurement conditions: The insulation resistance was measured with a 500 VDC megohmmeter at the same locations as the dielectric strength was measured.(Except the location between set/reset coil)

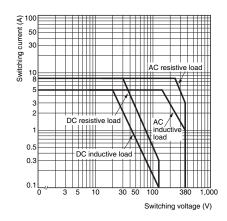
 *3. This value was measured at a switching frequency of 120 operations/min.

■Engineering Data

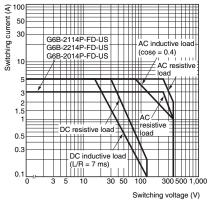
Maximum Switching Current G6B-1114P-US G6B-1174P-FD-US



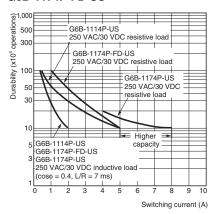
G6B-1174P-US



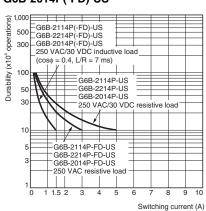
G6B-2114P-US G6B-2214P-US G6B-2014P-US



Durability G6B-1114P-US G6B-1174P-US G6B-1174P-FD-US

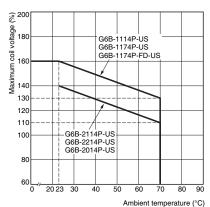


G6B-2114P(-FD)-US G6B-2214P(-FD)-US G6B-2014P(-FD)-US



Ambient Temperature vs. **Maximum Coil Voltage**

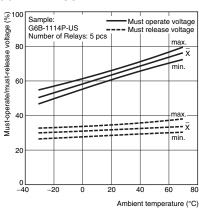
G6B-1114P-US G6B-2114P-US G6B-1174P-US G6B-2214P-US G6B-1174P-FD-US G6B-2014P-US



Note: The maximum coil voltage refers to the maxi-mum value in a varying range of operating power voltage, not a continuous

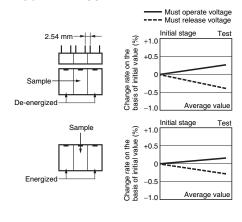
voltage.

Ambient Temperature vs. Must **Operate and Must Release Voltage** G6B-1114P-US

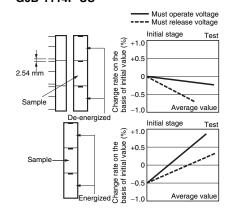


Mutual Magnetic Interference

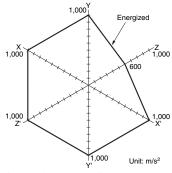
G6B-1114P-US



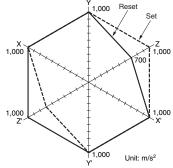
G6B-1114P-US



Sample: G6B-1114P-US Number of Relays: 12 pcs Test Conditions: Shock is applied in $\pm X$, $\pm Y$, and ±Z directions three times each with without energizing the Relays Shock direction X → X to check the number of malfunctions. z 💿 Requirement: None malfuction 100 m/s² (Coil)

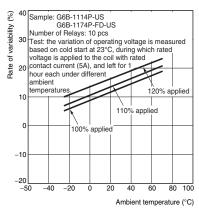


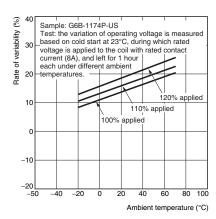
Sample: G6B-1174P-US G6B-1174P-FD-US Test Conditions: Shock is applied in ±X, ±Y, and ±Z directions three times each with without Shock direction energizing the Relays to check the number of malfunctions. Requirement: None $Z' \otimes$ malfuction 100 m/s2 (Coil)

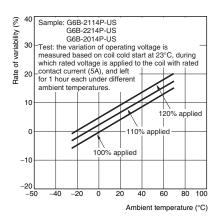


Sample: G6BK-1114P-US Number of Relays: 12 pcs Test Conditions: The value at which malfunction occurred was measured after Shock direction applying shock to the test piece 3 times each in 6 directions along 3 z 💿 axes. Standard value: (Coil) 300 m/s²

● Hot Start



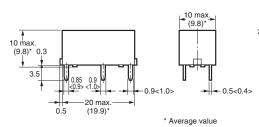




■Dimensions

1-pole Single-side Stable Models G6B-1114P(-FD)-US

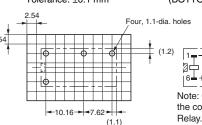




Dimensions in pointed brackets < > are for the Relay mounted to Socket.

PCB Mounting Holes (BOTTOM VIEW)

Tolerance: ±0.1 mm



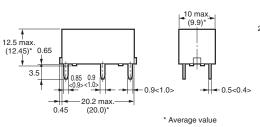
Terminal Arrangement/ Internal Connections (BOTTOM VIEW)

Note: Check carefully the coil polarity of the

Note: Orientation marks are indicated as follows: []

1-pole Single-side Stable Models G6B-1174P(-FD)-US

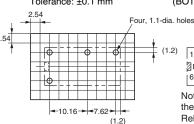




Dimensions in pointed brackets < > are for the Relay mounted to Socket.

PCB Mounting Holes (BOTTOM VIEW)

Tolerance: +0.1 mm



Terminal Arrangement/ Internal Connections (BOTTOM VIEW)



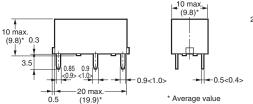
the coil polarity of the Relay.

Note: Orientation marks are indicated as follows: []

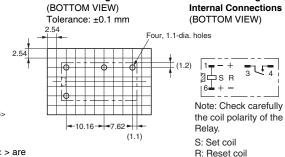
Terminal Arrangement/

1-pole Single-winding Latching Model G6BU-1114P-US





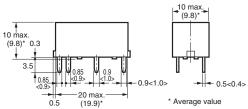
Dimensions in pointed brackets < > are for the Relay mounted to Socket.



PCB Mounting Holes

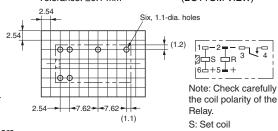
1-pole Double-winding Latching Model G6BK-1114P-US





Dimensions in pointed brackets < > are for the Relay mounted to Socket.

Terminal Arrangement/ **PCB Mounting Holes** (BOTTOM VIEW) **Internal Connections** (BOTTOM VIEW) Tolerance: ±0.1 mm

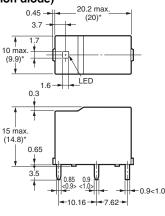


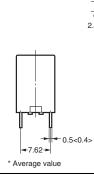
R: Reset coil Note: Orientation marks are indicated as follows: 🗒 🏻

Note: Orientation marks are indicated as follows: 🗒 🏻

1-pole Single-side stable Models SPST-NO (1a) (Built-in high capacity operation indicator & surge absorption diode)

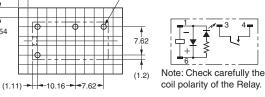
G6B-1177P(-FD)-ND-US





PCB Mounting Holes (BOTTOM VIEW) Tolerance: ±0.1 mm

Terminal Arrangement/ Internal Connections (BOTTOM VIEW) Four, 1.1-dia. holes



Note: The G6B-1177P-ND-US model has a flux-resistant construction. Do not wash it down with water. Pay attention to the polarity of the coil since the LED and surge absorption diode are built-in.

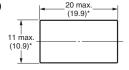
Dimensions in pointed brackets < > are for the Relay mounted to Socket.

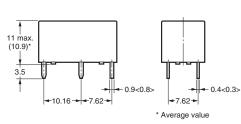
2-poles Single-side stable Models (SPST-NO (1a) + SPST-NC (1b),

DPST-NC (2c), SPST-NO(1a))

G6B-2114P-US G6B-2214P-US G6B-2014P-US



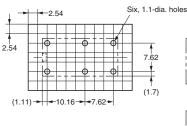




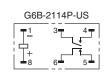
Dimensions in pointed brackets < > are for the Relay mounted to Socket.

PCB Mounting Holes (BOTTOM VIEW)

Tolerance: ±0.1 mm



Terminal Arrangement/ Internal Connections (BOTTOM VIEW)







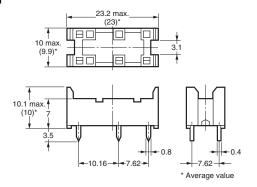
Note: Check carefully the coil polarity of the Relay.

■Connecting Sockets Dimensions

Socket for 1-pole Single-winding Latching Model and Single-side Stable Model

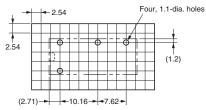
P6B-04P





PCB Mounting Holes (BOTTOM VIEW)

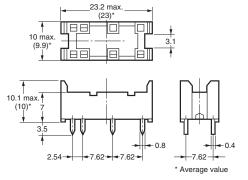
Tolerance: ±0.1 mm



Socket for 1-pole Double-winding Latching Model

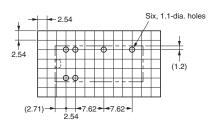
P6B-06P





PCB Mounting Holes (BOTTOM VIEW)

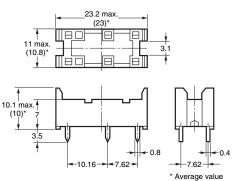
(BOTTOM VIEW)
Tolerance: ±0.1 mm



Socket for Double-pole Single-side Stable P6B-26P

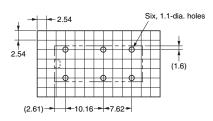
P0D-20P





PCB Mounting Holes

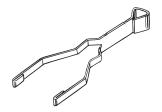
(BOTTOM VIEW)
Tolerance: ±0.1 mm



■Removal Tool

■Hold-down Clips

P6B-Y1



P6B-C2



■Related Products

The G6B-4 Terminal Relay series with 4-point output is also available. For details, contact your OMRON sales

representative.

■Approved Standards

• The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

UL Recognized: 💫 (File No. E41643)

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	
		3 to 24 VDC	5 A, 250 VAC (General Use) at 80°C	6.000	
G6B-1114P-US G6B-1114P-FD-US	1		5A, 30 VDC at 80°C	6,000	
	'		1/8HP, 250 VAC at 80°C	1.000	
			1/6HP, 250 VAC at 80°C	1,000	
G6B-1174P-US	1	3 to 24	8 A, 250 VAC (General Use) at 80°C		
G6B-1174P-FD-US	'	VDC	8 A, 30 VDC at 80°C		
G6B-2114P(-FD)-US	,		5 A, 250 VAC (General Use) at 40°C	6,000	
G6B-2214P(-FD)-US G6B-2014P(-FD)-US	2	VDC	5 A, 30 VDC at 40°C		

CSA Certified: (File No. LR31928)

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	
		3 to 24 VDC	5 A, 250 VAC (General Use) at 80°C	6.000	
G6B-1114P-US G6B-1114P-FD-US	1		5A, 30 VDC at 80°C	6,000	
	!		1/6HP, 250 VAC at 80°C	1,000	
			360WT, 120 VAC at tungsten 80°C	6,000	
G6B-1174P-US	1	3 to 24	8 A, 250 VAC (General Use) at 80°C		
G6B-1174P-FD-US		VDC	8 A, 30 VDC at 80°C		
G6B-2114P(-FD)-US	` '		5 A, 250 VAC (General Use) at 40°C	6,000	
G6B-2214P(-FD)-US G6B-2014P(-FD)-US	2	3 to 24 VDC	5 A, 30 VDC at 40°C		

EN/IEC, TÜV Certified: △ (Registration No. R50158246)

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G6B-1114P-US	1	5, 6 12, 24 VDC	5 A, 250 VAC (cosφ = 1) at 70°C	20,000
			2 A, 250 VAC (cosφ = 0.4) at 70°C	
			5 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-1174P-US	1	5, 6 12, 24 VDC	8 A, 250 VAC (cosφ = 1) at 70°C	
			2 A, 250 VAC (cosφ = 0.4) at 70°C	
			8 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-2114P-US G6B-2214P-US G6B-2014P-US	2	5, 6 12, 24 VDC	5 A, 250 VAC (cosφ = 1) at 70°C	
			1.5 A, 250 VAC (cosφ = 0.4) at 70°C	
			5 A, 30 VDC (L/R = 0 ms) at 70°C	

■Precautions

● Please refer to "PCB Relays Common Precautions" for correct use.

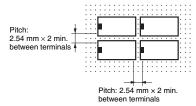
Correct Use

Mounting

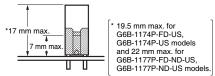
G

 When installing more than two Relays side by side on a PCB, keep the gaps as shown below.

It may cause a malfunction if heat is not dissipated smoothly from the Relay.



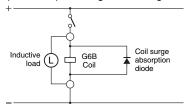
- No specified mounting direction.
- Mounting Height of Sockets and Precautions



- Hold-down clips (for mounting and removal) are also available.(For P6B-C2 model) However, it is not suitable for G6B-1174P and G6B-1177P models.
- Removal tool is also available.
 (For P6B-Y1 model) However, it is not suitable for G6B-1177P model.

●Inhibit Circuit of the G6B-1177P(-FD)-ND-US Model

 Do not use under conditions in which a surge is included in the power supply, such as when an inductive load is connected in parallel to the coil. Doing so will cause damage to the installed (or built-in) coil surge absorbing diode.

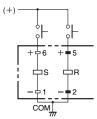


● Using SPDT contact of the SPST-NO+SPST-NC Relay

Do not construct a circuit so that overcurrent and burning occur if the NO, NC and SPDT contacts are short-circuited with the SPST-NO+SPST-NC Relay. Arcing may generate short-circuiting between contacts if there is short-circuiting because of conversion to the MBB contact caused by asynchronous operation of the NO and NC contacts, the interval between the NO and NC contacts is small, or a large current is left open.

Other precautions

- The P6B model has a flux-resistant construction. Do not wash it down with water.
- Perform wiring of No.1 and No. 2 of the X terminal as COM for doublewinding latching as shown below. The operation stability improves by doing this.



- Check carefully the coil polarity (+ and -)
 of the Relay G6B-1177P(-FD)-ND-US.
 Do not reverse the polarity when
 connecting. Otherwise the built-in coil
 surge absorption diode may be
 damaged.
- This Relay is a Power Relay which is suitable for power load switching. Do not use the G6B for signal purposes such as micro load switching under 10 mA.

Contact: www.omron.com/ecb

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

OMRON Corporation

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.

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6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
1423698-4 6-1608051-6 6-1608067-0 6-1616170-6 6-1616248-2 6-1616282-3 6-1616348-2 6-1616350-1 6-1616350-8 6-1616358-7 6-
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