

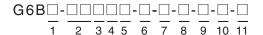
High Capacity and High Dielectric Strength Miniature Relay with Fully Sealed Construction in 5 A (8 A) SPST-NO(1a), SPST-NO+SPST-NC(1a1b), DPST-NO(2a), DPST-NC(2b) Types

- P6B model for connecting sockets are available.
- High insulation with dielectric strength of 3,000VAC between coil and contacts (impulse withstand voltage of 6 kV).
- Standard model conforms to UL/CSA standards.
- AgSnIn contacts suitable for loads that generate surge voltage (inductive load, capacity load, etc.) are available. (-FD type)
- Ultrasonic cleanable models are available. (-U type)
- Operation indicator & built-in surge absorption diode models are available. (-ND type)
- · 2-Pole type available.
- High-reliability models are available.
 G6B-1184P-US model (The relay used in Terminal Relay G6B-48BND)

■Application Examples

· 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
- 8: Single crossbar

4. Enclosure rating

- 4: Fully sealed
- 7: Flux protection

5. Terminal Shape

- P: Straight PCB terminals Socket mounting terminals
- C: Self-clinching PCB

6. Contact material

None: Standard (Ag-alloy (Cd free)) FD : AgSnIn contact (Suitable for DC inductive load with high inrush current)

7. Coil Polarity

None: 5, 6 Terminal (+), 1, 2 Terminal (-) 1 : 5, 6 Terminal (-), 1, 2 Terminal (+)

8. Operation Indicator Diode Availability

A) 🚯 🛆

None: Standard

ND : Operation indicator & coil surge absorption diode (for -1177 type only)

9. Approved Standards US: UL/CSA

10. Washability

None: Standard U : For ultrasonically cleanable

11. Mounting

None: Mounted directly to PCB P6B : Mounted to Socket

Ordering Information

• Standard Models (UL, CSA certified)

Number		C	ontact material	Standard (Ag-allo	oy (Cd free))	AgSnIn co	ntact	Minimum	
of poles	Relay Function	Contact form	Terminals	Model	Rated coil voltage	Model	Rated coil voltage	packing unit	
			Straight PCB	G6B-1114P-US	5, 6, 12, 24 VDC	G6B-1114P-FD-US	5, 6, 12, 24 VDC	100	
		SPST-NO (1a) (Standard)	Self-clinching PCB	G6B-1114C-US	5, 6, 12, 24 VDC	G6B-1114C-FD-US	12, 24 VDC	pcs/tray	
	Single-side	SPST-NO (1a)	Straight PCB	G6B-1174P-US	5, 6, 12, 24 VDC	G6B-1174P-FD-US	5, 6, 12, 24 VDC	20	
	stable	(High-capacity)	Self-clinching PCB	G6B-1174C-US	5, 12, 24 VDC	G6B-1174C-FD-US	5, 12, 24 VDC	20 pcs/tube	
		SPST-NO (1a)	Straight PCB	G6B-1184P-US	5, 12, 24 VDC				
1-pole Single-winding latching		(High-reliability)	Self-clinching PCB						
	Single winding	SPST-NO (1a)	Straight PCB	G6BU-1114P-US	5, 6, 12, 24 VDC	G6BU-1114P-FD-US	5, 12, 24 VDC		
	0 0	(Standard)	Self-clinching PCB	G6BU-1114C-US	12 VDC				
	Double-winding	SPST-NO (1a) (Standard)	Straight PCB	G6BK-1114P-US	5, 6, 12, 24 VDC	G6BK-1114P-FD-US	5, 6, 12, 24 VDC		
	latching		Self-clinching PCB	G6BK-1114C-US	5, 6, 12, 24 VDC	G6BK-1114C-FD-US	24 VDC		
		SPST-NO (1a) (Built-in high- capacity operation indicator & diode)	Straight PCB	G6B-1177P-ND-US	5, 12, 24 VDC	G6B-1177P-FD-ND-US	5, 12, 24 VDC		
	Single-side stable		Self-clinching PCB	G6B-1177C-ND-US	5, 12, 24 VDC	G6B-1177C-FD-ND-US	12, 24 VDC	100 pcs/tray	
		SPST-NO (1a)+	Straight PCB	G6B-2114P-US	5, 6, 12, 24 VDC	G6B-2114P-FD-US	5, 6, 12, 24 VDC		
		SPST-NC (1b) (Standard)	Self-clinching PCB	G6B-2114C-US	5, 12, 24 VDC	G6B-2114C-FD-US	5, 12 VDC		
	Single-side	DPST-NO (2a)	Straight PCB	G6B-2214P-US	5, 6, 12, 24 VDC	G6B-2214P-FD-US	5, 6, 12, 24 VDC		
2-pole	stable	(Standard)	Self-clinching PCB	G6B-2214C-US	5, 12, 24 VDC	G6B-2214C-FD-US	5, 12, 24 VDC		
			Straight PCB	G6B-2014P-US	5, 6, 12, 24 VDC	G6B-2014P-FD-US	5, 6, 12, 24 VDC	1	
		DPST-NC (2b) (Standard)	Self-clinching PCB	G6B-2014C-US	5, 6, 12, 24 VDC	G6B-2014C-FD-US	12, 24 VDC	1	

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

Models for Reverse Coil Polarity

Number		C	Contact material	Standard (Ag-allo	y (Cd free))	AgSnIn co	ntact	Minimum	
of poles	Relay Function	Contact form	Terminals	Model	Rated coil voltage	Model	Rated coil voltage	packing unit	
		SPST-NO (1a)	Straight PCB	G6B-1114P-1-US	5, 6, 12, 24 VDC	G6B-1114P-FD-1-US	24 VDC	100	
	Single-side stable	(Standard)	Self-clinching PCB					pcs/tray	
		SPST-NO (1a)	Straight PCB	G6B-1174P-1-US	5, 12, 24 VDC			20	
1 000		(High-capacity)	Self-clinching PCB					pcs/tube	
1-pole	Single-winding	SPST-NO (1a)	Straight PCB	G6BU-1114P-1-US	5, 12 VDC				
	latching	(Standard)	Self-clinching PCB						
	Double-winding	SPST-NO (1a)	Straight PCB	G6BK-1114P-1-US	5, 6, 12, 24 VDC				
	latching	(Standard)	Self-clinching PCB					100	
		SPST-NO (1a)+	Straight PCB	G6B-2114P-1-US	5, 6, 12, 24 VDC	G6B-2114P-FD-1-US	12, 24 VDC	pcs/tray	
0 polo	Single-side	SPST-NC (1b) (Standard)	Self-clinching PCB						
2-pole	stable	DPST-NO (2a)	Straight PCB	G6B-2214P-1-US	5, 12, 24 VDC				
		(Standard)	Self-clinching PCB						

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	y (Cd free))	AgSnIn co	ntact	Minimum
of poles	Relay Function	Contact form	Terminals	Model	Rated coil voltage	Model	Rated coil voltage	packing unit
	Single-side	SPST-NO (1a)	Straight PCB	G6B-1114P-US-U	5, 6, 12, 24 VDC	G6B-1114P-FD-US-U	6, 12, 24 VDC	
	stable	(Standard)	Self-clinching PCB	G6B-1114C-US-U	5, 12, 24 VDC			
Single-winding	SPST-NO (1a)	Straight PCB	G6BU-1114P-US-U	24 VDC				
1-pole	1-pole latching	(Standard)	Self-clinching PCB					
	Double-winding	SPST-NO (1a) (Standard)	Straight PCB	G6BK-1114P-US-U	5, 6, 12, 24 VDC	G6BK-1114P-FD-US-U	12, 24 VDC	
	latching		Self-clinching PCB	G6BK-1114C-US-U	24 VDC			100
		SPST-NO (1a)+	Straight PCB	G6B-2114P-US-U	5, 12, 24 VDC	G6B-2114P-FD-US-U	5, 12, 24 VDC	pcs/tray
		SPST-NC (1b) (Standard)	Self-clinching PCB					
	Single-side		Straight PCB	G6B-2214P-US-U	5, 6, 12, 24 VDC	G6B-2214P-FD-US-U	5, 12, 24 VDC	
2-pole	Single-side DPST-NO (2a) stable (Standard)		Self-clinching PCB	G6B-2214C-US-U	12, 24 VDC			
		DPST-NC (2b) (Standard)	Straight PCB	G6B-2014P-US-U	5, 12, 24 VDC	G6B-2014P-FD-US-U	5, 12, 24 VDC	
			Self-clinching PCB					

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 D 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	1 200	
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)

ltem	Rated current	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
Rated voltage	(11/4)	(52)	%	of rated voltag	(11100)	
5 VDC	40	125				
6 VDC	33.3	180	70% max.	10% min.	160% (at 23°C)	Approx. 200
12 VDC	16.7	720	70 % max.			
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	(11/4)	(52)	%	of rated voltag	(11100)		
5 VDC	60	83.3					
6 VDC	50	120	80% max.	10% min.	140% (at 23°C)	Approx. 300	
12 VDC	25	480	00 /0 max.				
24 VDC	12.5	1,920					

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

Item	Rated current	Coil resistance	Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power cor	nsumption
Rated voltage	(mA)	(Ω)	%	of rated volta	ige	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.			200	200
24 VDC	8.3	2,880					

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

Item	Rated current (mA)		Coil resistance (Ω)		Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power cor	nsumption
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.	/0% may	130%	280	280
12 VDC	23.3	23.3	515	515	70% max.		(at 23°C)		
24 VDC	11.7	11.7	2,060	2,060					

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

ltem	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
Rated voltage	(1174)	(52)	%	(11100)		
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			(ut 20 0)	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

	Model	G6B-1114P(-FD)(-1)-US G6BU-1114P(-FD)(-1)-US G6BK-1114P(-FD)(-1)-US G6B-1114C(-FD)-US G6BU-1114C(-FD)-US G6BK-1114C(-FD)-US		G6B-1174P(-FD)(-1)-US G6B-1177P(-FD)-ND-US G6B-1174C(-FD)-US G6B-1177C(-FD)-ND-US		G6B-1184P-US		G6B-2114P(-FD)(-1)-US G6B-2214P(-FD)(-1)-US G6B-2014P(-FD)-US G6B-2114C(-FD)-US G6B-2214C(-FD)-US G6B-2014C(-FD)-US		
Item	Load	Resistive load	Inductive load (cos	Resistive load	Inductive load (cos	Resistive load	Inductive load (cos	Resistive load	Inductive load (cos	
Contact type			Single				Single crossbar		Single	
Contact material			Ag-Alloy (Cd free)			Au-alloy + Ag (Cd free)		Ag-Alloy (Cd free)		
Rated load		5 A (3 A) at 250 VAC 5 A (3 A) at 30 VDC	2 A (2 A) at 250 VAC 2 A (2 A) at 30 VDC	8 A (5 A) at 250 VAC 8 A (5 A) at 30 VDC	2 A (2 A) at 250 VAC 2 A (2 A) at 30 VDC	2 A at 250 VAC 2 A at 30 VDC	0.5 A at 250 VAC 0.5 A at 30 VDC	5 A (3 A) at 250 VAC 5 A (3 A) at 30 VDC	1.5 A (1.5 A) at 250 VAC 1.5 A (1.5 A) at 30 VDC	
Rated carry current		5 A	5 A (5 A)		8 A (5 A)		A	5 A (5 A)		
Max. switching volta	Max. switching voltage				380 VAC,	125 VDC				
Max. switching current		5 A	(5 A)	8 A (5 A)		2A		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(-FD)(-1)-US G6B-1174P(-FD)(-1)-US G6B-1174P(-FD)-US G6B-1114C(-FD)-US G6B-1174C(-FD)-US G6BU-1114P(-FD)(-1)-US G6BU-1114C-US G6BK-1114P(-FD)(-1)-US G6BK-1114C(-FD)-US G6B-1177P(-FD)-NE G6B-1177C(-FD)-NE		G6B-2114P(-FD)(-1)-US G6B-2214P(-FD)(-1)-US G6B-2014P(-FD)(-1)-US G6B-2114C(-FD)-US G6B-2214C(-FD)-US G6B-2014C(-FD)-US							
Item Classification Single-side stable Single-winding latching latching latching & surge absorption		Single-side stable							
Contact resistance *1 30 mΩ max.	50 m Ω max.	30 mΩ max.							
Operate (set) time 10 ms max.									
Release (reset) time 10 ms max.									
Min. set pulse width – 15 ms (at 23°C)	-								
Min. reset pulse width – 15 ms (at 23°C)	-								
Insulation resistance *2 1,000 MΩ min.	1,000 MΩ min.								
Between coil and contacts 3,000 VAC, 50/60 Hz for 1 min 2,000 VAC, 50/60 Hz for 1 min	3,000 VAC, 50/60 Hz for 1 min								
Between contacts 1,000 VAC, 50/60 Hz for 1 min	1,000 VAC, 50/60 Hz for 1 min								
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	-								
$ \begin{array}{ l l l l l l l l l l l l l l l l l l l$	$6 \text{ kV } 1.2 \times 50 \ \mu \text{s} \qquad -$								
Vibration Destruction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm									
resistance Malfunction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm	m double amplitude)								
Shock Destruction 1,000 m/s ²									
resistance Malfunction 100 m/s ² 300 m/s ²	100 m/s ²								
Durability Mechanical 50,000,000 operations min. (at 18,000 oper	erations/hr)								
Electrical 100,000 operation min. (at 1,800 operations/hr u	inder rated load)								
Failure rate (P level) 10 mA at 5 VDC (reference value) *3 10 mA at 5 VDC	10 mA at 5 VDC 1 mA at 1 VDC 10 mA at								
Ambient operating temperature -25°C to 70°C (with no icing or condense	-25°C to 70°C (with no icing or condensation)								
Ambient operating humidity 5% to 85%	5% to 85%								
Weight Approx. 3.5 to 4.6 g Approx. 3.5 g Approx. 3.7 g Approx. 5.4	g Approx. 3.5 g	Approx. 4.5 g							

Note 1. The values here are initial values.

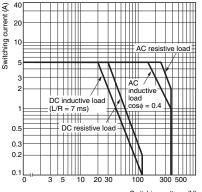
*1.

 The values here are finitely values.
 The GoB-1177P(-FD)-ND model is flux-resistant. Do not wash it down with water.
 The contact resistance was measured with 1 A at 5 VDC using a voltage-drop method.
 Measurement conditions: The insulation resistance was measured with a 500 VDC megohymeter at the same locations as the dielectric strength was *2. measured.(Except the location between set/reset coil)

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

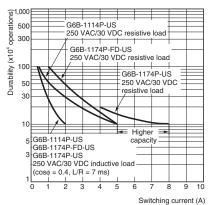
Engineering Data

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

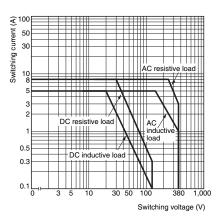


Switching voltage (V)

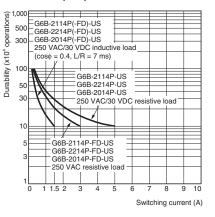
Durability G6B-1114P-US G6B-1174P-US G6B-1174P-FD-US



G6B-1174P-US

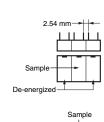


G6B-2114P(-FD)-US G6B-2214P(-FD)-US G6B-2014P(-FD)-US

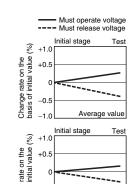


Mutual Magnetic Interference

G6B-1114P-US







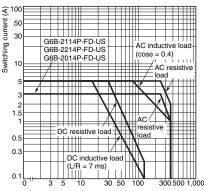
Average value

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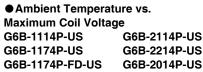
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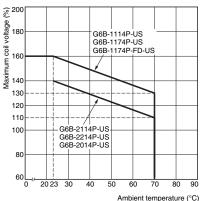
-1.0

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



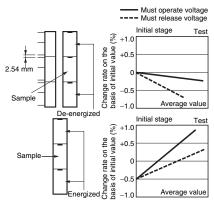
Switching voltage (V)





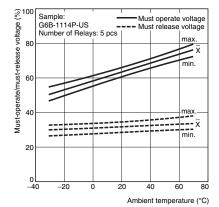
Note: The maximum coil voltage refers to the maxi-mum value in a varying range of operating power voltage, not a continuous voltage.

G6B-1114P-US

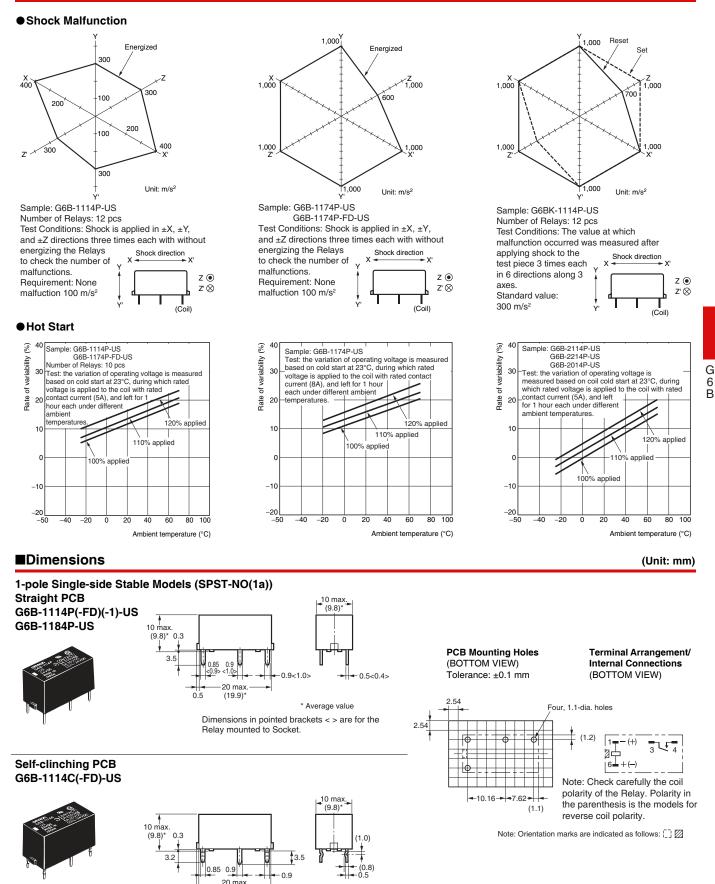


G

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



G6B

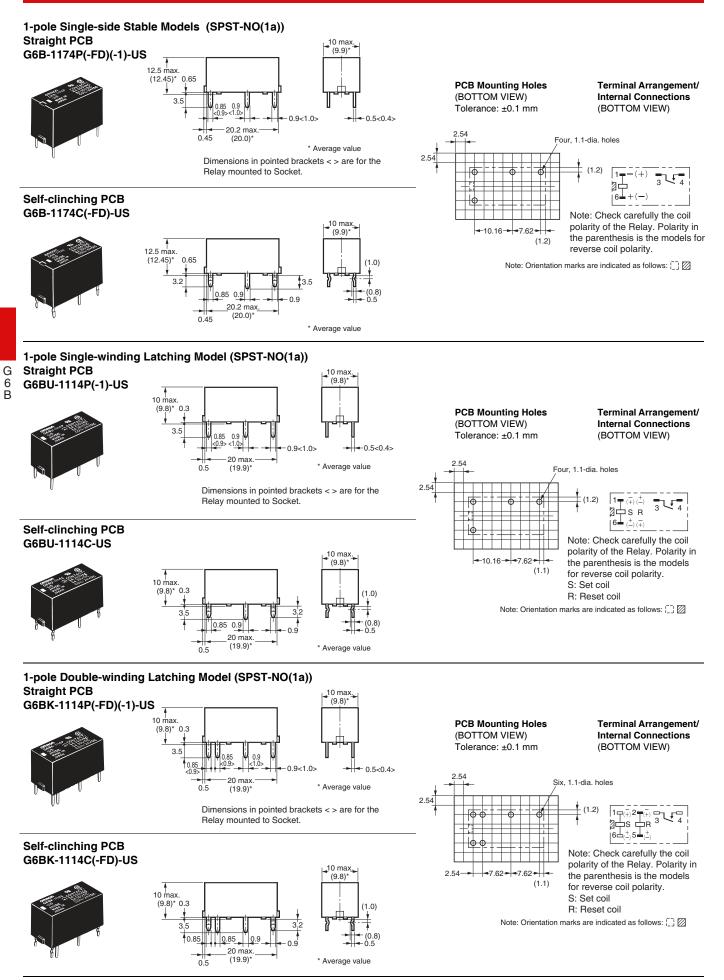


(19.9)

* Average value

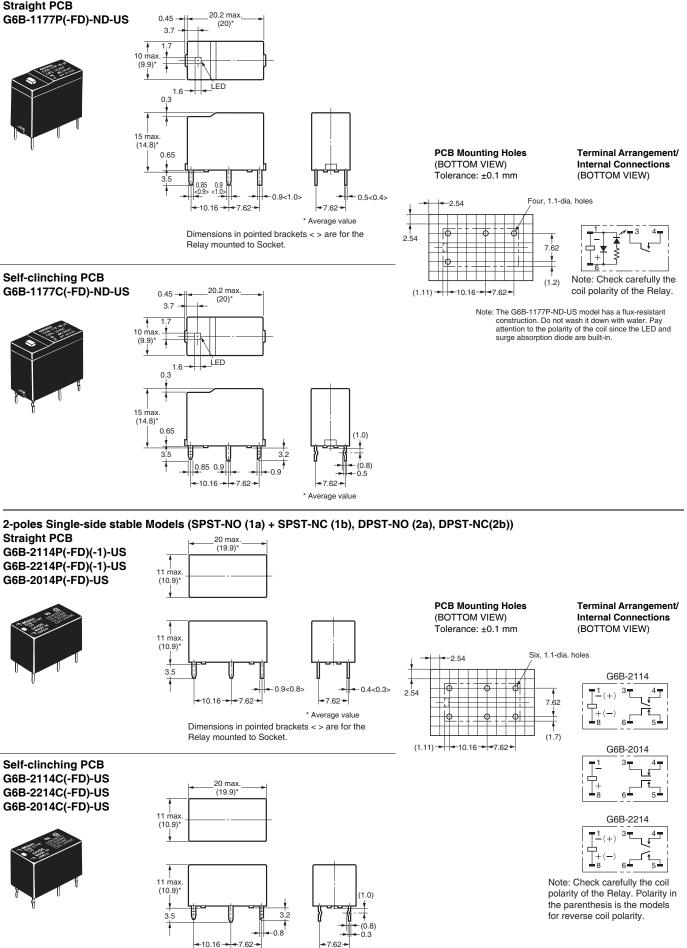
0.5

G6B



G6B

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



* Average value

G

6

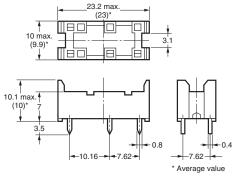
B

Connecting Sockets Dimensions

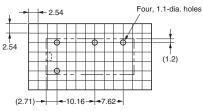
Socket for 1-pole Single-winding Latching Model and Single-side Stable Model

P6B-04P





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



Socket for 1-pole Double-winding Latching Model P6B-06P 3.2 max (23)* 10 max. (9.9)* 7 3,1 ╓┢┲ 1 ΈΠ ł 4 10.1 max. $(10)^{*}$ 3.5

*

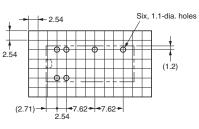
2.54

F7.62

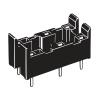
+7.62+

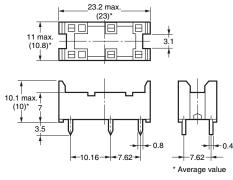
PCB Mounting Holes (BOTTOM VIEW)

Tolerance: ±0.1 mm

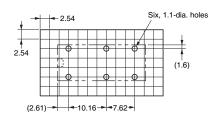


Socket for Double-pole Single-side Stable P6B-26P



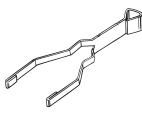


PCB Mounting Holes (BOTTOM VIEW) Tolerance: ±0.1 mm



Removal Tool

P6B-Y1



Hold-down Clips

0.8

-04

7.62 * Average value

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
			5 A, 250 VAC (General Use) 80°C	6.000
G6B-1114P(-FD)(-1)-US	1	3 to 24 VDC	5 A, 30 VDC (Resistive) 80°C	6,000
G6B-1114C(-FD)-US	1		1/8HP, 250 VAC 80°C	1 000
			1/6HP, 250 VAC 80°C	1,000
G6B-1174P(-FD)(-1)-US	4	3 to 24	8 A, 277 VAC (General Use) 80°C	30,000
G6B-1174C(-FD)-US	1	VDC	8 A, 30 VDC (Resistive) 80°C	
G6B-1184P-US	4	3 to 24	2 A, 250 VAC (General Use) 80°C	
G0D-1184P-05	1	VDC	2 A, 30 VDC (Resistive) 80°C	
G6B-2114P(-FD)(-1)-US G6B-2214P(-FD)(-1)-US G6B-2014P(-FD)-US	2	3 to 24	5 A, 250 VAC (General Use) 80°C	6,000
G6B-2114C(-FD)-US G6B-2214C(-FD)-US G6B-2014C(-FD)-US	2	VDC	5 A, 30 VDC (Resistive) 80°C	

CSA Certified: (File No. LR31928)

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G6B-1114P(-FD)(-1)-US G6B-1114C(-FD)-US	1	3 to 24 VDC	5 A, 250 VAC (General Use) 80°C	6,000
			5 A, 30 VDC (Resistive) 80°C	
			1/6HP, 250 VAC 80°C	1,000
			360 W, 120 VAC tungsten 80°C	6,000
G6B-1174P(-FD)(-1)-US G6B-1174C(-FD)-US	1	3 to 24 VDC	8 A, 277 VAC (General Use) 80°C	30,000
			8 A, 30 VDC (Resistive) 80°C	6,000
G6B-2114P(-FD)(-1)-US G6B-2214P(-FD)(-1)-US G6B-2014P(-FD)-US G6B-2014P(-FD)-US G6B-2214C(-FD)-US G6B-2214C(-FD)-US G6B-2014C(-FD)-US	2	3 to 24 VDC	5 A, 250 VAC (General Use) 80°C	
			5 A, 30 VDC (Resistive) 80°C	

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

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G6B-1114P(-1)-US G6B-1114C-US	1	5, 6, 12, 24 VDC	5 A, 250 VAC (cos = 1) at 70°C	20,000
			2 A, 250 VAC(cos = 0.4) at 70°C	
			5 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-1174P(-1)-US G6B-1174C-US	1	5, 6, 12, 24 VDC	8 A, 250 VAC (cosφ = 1) at 70°C	
			2 A, 250 VAC (cos = 0.4) at 70°C	
			8 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-2114P(-1)-US G6B-2214P(-1)-US G6B-2014P-US G6B-2114C-US G6B-2214C-US G6B-2214C-US	2	5, 6, 12, 24 VDC	5 A, 250 VAC (cosφ = 1) at 70°C	
			1.5 A, 250 VAC (cos∳ = 0.4) at 70°C	
			5 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-1114P-FD(-1)-US G6B-1114C-FD-US	1	5, 6, 12, 24 VDC	3 A, 250 VAC ($\cos\phi = 1$) at 70°C	10,000
			3 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-1174P-FD(-1)-US G6B-1174C-FD-US	1	5, 6, 12, 24 VDC	5 A, 250 VAC (cos = 1) at 70°C	
			2 A, 250 VAC ($\cos\phi = 0.4$) at 70°C	
			5 A, 30 VDC (L/R = 0 ms) at 70°C	
G6B-2114P-FD(-1)-US G6B-2214P-FD(-1)-US G6B-2014P-FD-US G6B-2114C-FD-US G6B-2214C-FD-US G6B-2214C-FD-US	2	5, 6, 12, 24 VDC	1.5 A, 250 VAC (cosφ = 0.4) at 70°C	
			3 A, 30 VDC (L/R = 0 ms) at 70°C	

G 6 B

Precautions

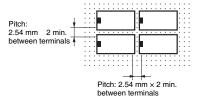
Please refer to "PCB Relays Common Precautions" for correct use.

Correct Use

Mounting

 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

19.5 mm max. for G6B-1174P-FD-US, *17 mm max 7 mm max Π Π

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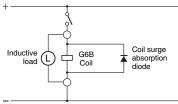
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G6B-1174P-US models and 22 mm max. for G6B-1177P-FD-ND-US, G6B-1177P-ND-US models.

- · 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.

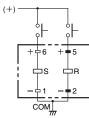


Using SPDT contact of the SPST-NO+SPST-NC Relay

· 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.

Please check each region's Terms & Conditions by region website.

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In the interest of product improvement, specifications are subject to change without notice.

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