Accessories (Order Separately)

Back Connecting Sockets

Applicable relay	Back connecting socket*
G6B(U)-1114P-US	P6B-04P
G6BK-1114P-US	P6B-06P
G6B-204P-US-P6B	P6B-26P
G6B-1174P-US	P6B-04P

*Not applicable to the self-clinching type.

Removal Tool	P6B-Y1
Hold-down Clips	P6B-C2

Specifications

Coil Ratings

Single-side Stable Type

Ite	m		SPST-NO					SPST-NO + SPST-NC, DPST-NO, DPST-NC			
Rated voltage (VDC)		3	5	6	12	24	3	5	6	12	24
Rated current (m	A)	67	40	33.3	16.7	8.3	100	60	50	25	12.5
Coil resistance (2)	45	125	180	720	2,880	30	83.3	120	480	1,920
Coil inductance	Armature OFF	0.20	0.28	0.31	1.2	4.9					
(H) (ref. value)	Armature ON	0.18	0.26	0.28	1.1	4.1					
Must operate vol	tage	70% max. of rated voltage			80% m	80% max. of rated voltage					
Must release volt	age	10% min. of rated voltage									
Max. voltage		160% of rated voltage (at 23°C)				140%	140% of rated voltage (at 23°C)				
Power consumpt	ion	Approx. 200 mW Approx. 300				. 300 mW					

Single-winding Latching Type

Rated voltage		3 VDC	5 VDC	6 VDC	12 VDC	24 VDC		
Rated current		67 mA	40 mA	33.3 mA	16.7 mA	8.3 mA		
Coil resistance		45 Ω	125 Ω	180 Ω	720 Ω	2,880 Ω		
Coil inductance	Armature OFF	0.20	0.28	0.31	1.2	4.9		
(H) (ref. value)	Armature ON	0.18	0.26	0.28	1.1	4.1		
Must operate volt	age	70% max. of rate	70% max. of rated voltage					
Must release volta	age	70% min. of rated voltage						
Max. voltage		160% of rated ve	160% of rated voltage (at 23°C)					
Power consumption Approx. 200 mW								

Double-winding Latching Type

Rated volta	age		3 VDC	5 VDC	6 VDC	12 VDC	24 VDC	
Set coil	oil Rated current		93.2 mA	56 mA	46.8 mA	23.3 mA	11.7 mA	
	Coil resistance		32.2 Ω	89.2 Ω	128.5 Ω	515 Ω	2,060 Ω	
	Coil inductance	Armature OFF	0.11	0.15	0.18	0.52	1.2	
	(H) (ref. value)	Armature ON	0.11	0.15	0.18	0.52	1.2	
Reset coil	Rated current		93.2 mA	56 mA	46.8 mA	23.3 mA	11.7 mA	
	Coil resistance	oil resistance		89.2 Ω	128.5 Ω	515 Ω	2,060 Ω	
	Coil inductance	Armature OFF	0.11	0.15	0.18	0.52	1.2	
	(H) (ref. value)	Armature ON	0.11	0.15	0.18	0.52	1.2	
Must set v	oltage		70% max. of rated voltage					
Must reset voltage			70% min. of rated voltage					
Max. voltage			130% of rated voltage (at 23°C)					
Power consumption			Set coil: Approx. 280 mW Reset coil: Approx. 280 mW					

Note: 1. The rated current and coil resistance are measured at a coil temperature of $23^{\circ}C$ with a tolerance of $\pm 10\%$.

2. Operating characteristics are measured at a coil temperature of 23°C.

		SPST-NO + SPST-NC, DPST-NO, DPST-I				
		Resistive load $(\cos\phi = 1)$	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$			
5 A at 250 VAC; 5A at 30 VDC	2 A at 250 VAC; 2 A at 30 VDC	5 A at 250 VAC; 5A at 30 VDC	1.5 A at 250 VAC; 1.5 A at 30 VDC			
AgCdO						
5 A	5 A					
380 VAC, 125 VDC						
5 A						
1,250 VA, 150 W	500 VA, 60 W	1,250 VA, 150 W	375 VA, 80 W			
10 mA at 5 VDC						
	5 A at 250 VAC; 5A at 30 VDC AgCdO 5 A 380 VAC, 125 VDC 5 A 1,250 VA, 150 W	5 A at 250 VAC; 2 A at 250 VAC; 5 A at 30 VDC 2 A at 30 VDC AgCdO 5 A 380 VAC, 125 VDC 5 A 1,250 VA, 150 W 500 VA, 60 W	5 A at 250 VAC; 2 A at 250 VAC; 5 A at 250 VAC; 5 A at 30 VDC 2 A at 30 VDC 5 A at 30 VDC AgCdO 5 A 380 VAC, 125 VDC 5 A 1,250 VA, 150 W 500 VA, 60 W			

ltem	SPST-NO (High-capacity)						
Load	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)					
Rated load	8 A at 250 VAC; 5A at 30 VDC 2 A at 250 VAC; 2 A at 30 VDC						
Contact material	AgCdO						
Rated carry current	8 A						
Max. switching voltage	380 VAC, 125 VDC						
Max. switching current	8 A						
Max. switching power	2,000 VA, 150 W						
Failure rate (reference value)	10 mA at 5 VDC						

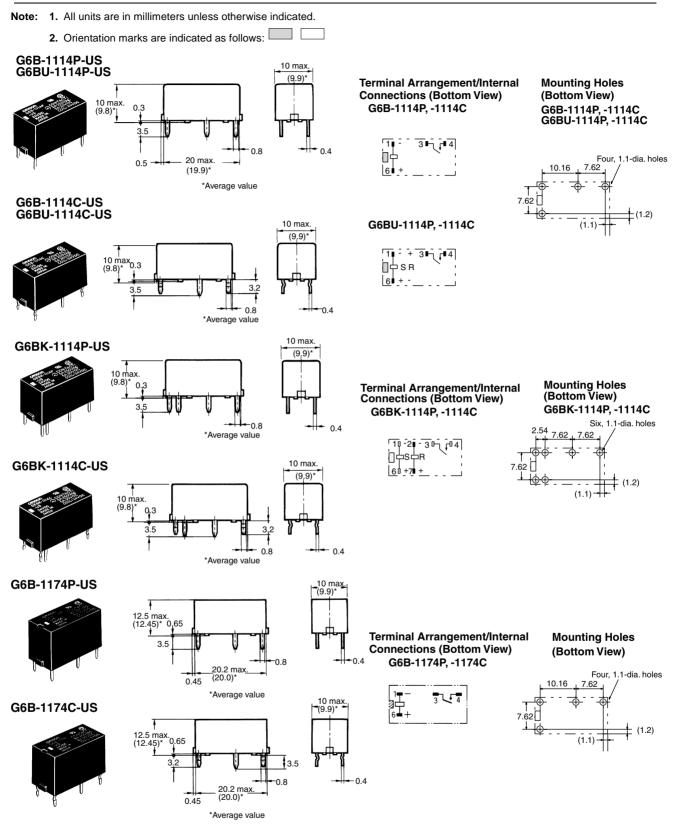
Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

Characteristics

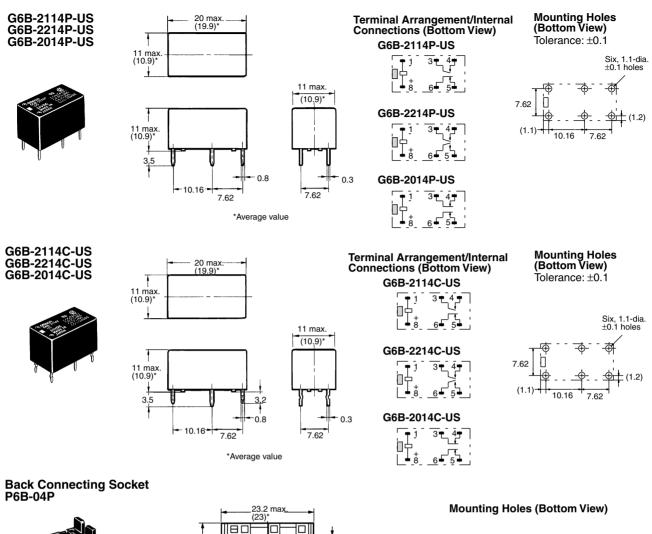
Contact resistance	30 mΩ max.				
Operate (set) time	10 ms max. (mean value: 1-pole approx. 3 ms, 2-pole approx. 4 ms)				
Release (reset) time	Single-side stable types: 10 ms max. (mean value: 1-pole approx. 1 ms, 2-pole approx. 2 ms) Latching types: 10 ms max. (mean value: approx. 3 ms)				
Min. set/reset signal width	Latching type: 15 ms min. (at 23°C)				
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)				
Insulation resistance	1,000 M Ω min. (at 500 VDC, at 250 VDC between set coil and reset coil)				
Dielectric strength	3,000 VAC (Latching types: 2,000 VAC), 50/60 Hz for 1 min between coil and contacts 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity 250 VAC, 50/60 Hz for 1 min between set and reset coils 2,000 VAC, 50/60 Hz for 1 min between contacts of different polarity				
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)				
Shock resistance	Destruction: 1,000 m/s ² Malfunction: Single-side stable: 100 m/s ² ; Latching: 300 m/s ²				
Endurance	Mechanical: 50,000,000 operations min. (at 18,000 operations/hr) Electrical: 100,000 operation min. (at 1,800 operations/hr)				
Ambient temperature	Operating: -25°C to 70°C (with no icing)				
Ambient humidity	Operating: 5% to 85%				
Weight	Double-winding latching:Approx. 3.7 gHigh-capacity:Approx. 4.6 gDouble pole:Approx. 4.5 gOther:Approx. 3.5 g				

Note: The data shown above are initial values.

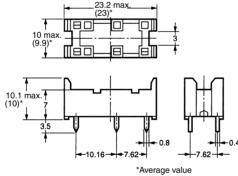


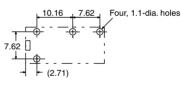


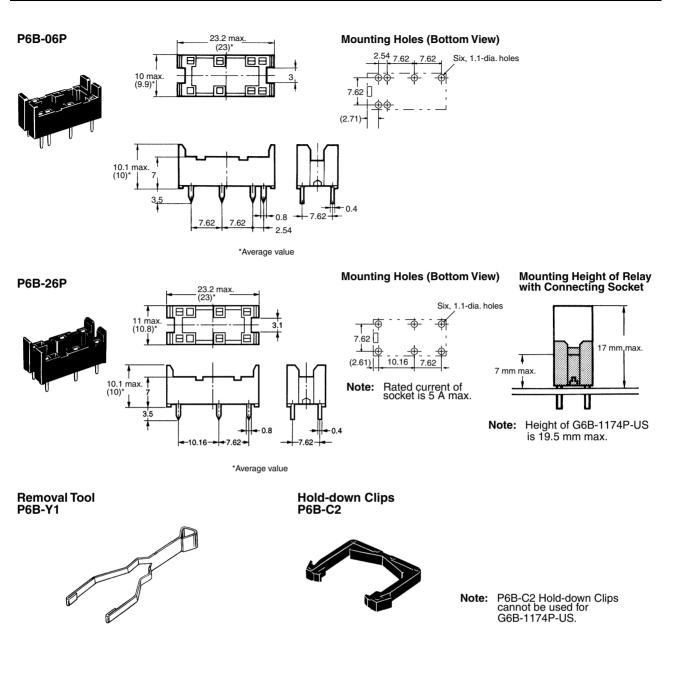
OMRON











ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. K021-E1-5A