

● Models for Ultrasonically Cleanable

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		Ag3SnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	G6B-1114P-US-U	5, 6, 12, 24 VDC	G6B-1114P-FD-US-U	6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	G6B-1114C-US-U	5, 12, 24 VDC	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	G6BU-1114P-US-U	24 VDC	---	---	
			Self-clinching PCB	---	---	---	---	
	Double-winding latching	SPST-NO (1a) (Standard)	Straight PCB	G6BK-1114P-US-U	5, 6, 12, 24 VDC	G6BK-1114P-FD-US-U	12, 24 VDC	
			Self-clinching PCB	G6BK-1114C-US-U	24 VDC	---	---	
2-pole	Single-side stable	SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	G6B-2114P-US-U	5, 12, 24 VDC	G6B-2114P-FD-US-U	5, 12, 24 VDC	
			Self-clinching PCB	---	---	---	---	
		DPST-NO (2a) (Standard)	Straight PCB	G6B-2214P-US-U	5, 6, 12, 24 VDC	G6B-2214P-FD-US-U	5, 12, 24 VDC	
			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 □□ 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 pcs
G6BK-1114P-US-P6B	P6B-06P	
G6B-2114P-US-P6B G6B-2214P-US-P6B G6B-2014P-US-P6B	P6B-26P	
Removal Tool	P6B-Y1	1 pcs
Hold-down Clips	P6B-C2	

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

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

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

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

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

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

Item Rated voltage	Rated current (mA)		Coil resistance (Ω)		Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power consumption	
	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	70% max.	70% max.	130% (at 23°C)	280	280
6 VDC	46.8	46.8	128.5	128.5					
12 VDC	23.3	23.3	515	515					
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 voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
			% of rated voltage			
5 VDC	43	116	70% max.	10% min.	130% (at 23°C)	Approx. 200
12 VDC	19.7	610				Approx. 240
24 VDC	11.3	2,120				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

Item	Model	Resistive load		Inductive load (cosφ = 0.4; L/R = 7 ms)		Resistive load		Inductive load (cosφ = 0.4; L/R = 7 ms)	
		Resistive load	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load	Inductive load (cosφ = 0.4; L/R = 7 ms)
Model	G6B-1114P(-FD)(-1)-US G6BU-1114P(-FD)(-1)-US G6BK-1114P(-FD)(-1)-US G6B-1114C(-FD)-US G6BU-1114C-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			
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)		8 A (5 A)		2A		5 A (5 A)		
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.