

Single Coil Latching Type

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)		Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption (mW)
			Armature OFF	Armature ON	% of rated voltage			
3	67	45	0.09	0.06	70% max.	70% min.	160% max. at 23°C	Approx. 200
5	40	125	0.25	0.20				
6	33.30	180	0.36	0.24				
12	16.70	720	1.75	1.17				
24	8.30	2,880	5.83	3.84				

Dual Coil Latching Type

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)				Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption (mW)
			Set Coil		Reset Coil					
			Armature OFF	Armature ON	Armature OFF	Armature ON	% of rated voltage			
3	93.50	32.10	0.03	0.02	0.03	0.02	70% max.	70% max.	130% max. at 23°C)	Approx. 280
5	56	89.30	0.07	0.06	0.08	0.07				
6	46.70	129	0.10	0.08	0.12	0.10				
12	23.30	514	0.37	0.32	0.47	0.38				
24	11.70	2,056	1.56	1.18	1.46	1.13				

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

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

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

■ Characteristics

Contact resistance		30 m Ω max.
Operate (set) time		10 ms max. (mean value: approx. 5 ms)
Release (reset) time		10 ms max. (mean value: approx. 2 ms; latching types: mean value: approx. 5 ms)
Bounce time		5 ms max. (Approx. 3 ms typical)
Min. set/reset signal width		Latching type: 20 ms (at 23°C)
Max. switching 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		2,000 VAC, 50/60 Hz for 1 min between coil and contacts 2,000 VAC, 50/60 Hz for 1 min between contacts of different polarity 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 (double winding latching type)
Surge withstand voltage		6,000 V (1.2 x 50 μ s) between coil and contacts (latching types: 4,500 V, 1.2 x 50 μ s)
Vibration resistance	Mechanical durability	10 to 55 Hz, 1.5-mm double amplitude
	Malfunction durability	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Mechanical durability	1,000 m/s ² (Approx. 100G)
	Malfunction durability	100 m/s ² (Approx. 10G)
Ambient temperature		Operating: -25°C to 70°C (with no icing)
Ambient humidity		Operating: 5% to 85%
Service Life	Mechanical:	50,000,000 operations min. (at 18,000 operations/hr)
	Electrical:	100,000 operations min. (at 1,800 operations/hr) See "Characteristic Data"
Weight		Approx. 5.6 g

■ Approved Standards

UL Recognized (File No. E41643) -- See note

Model	Contact form	Coil rating	Contact rating
G6C-1114P-US G6C-1114C-US G6C-1117P-US G6C-1117C-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (general use) 10 A, 30 VDC (resistive load) 1/6 hp, 125 VAC 1/4 hp, 125 VAC 1/4 hp, 250 VAC 1/3 hp, 250 VAC TV-5 (40°C, 25,000 operations) 600 W, 120 VAC (tungsten) 530 VA, 20 to 265 VAC, 2 A max. (pilot duty) 43.2 VA, 30 VDC (pilot duty) 12LRA, 2.2FLA, 30 VDC (30,000 operations)
G6C-2114P-US G6C-2114C-US G6C-2117P-US G6C-2117C-US	SPST-NO + SPST-NC		8 A, 250 VAC (general use) 8 A, 30 VDC (resistive load) 1/6 hp, 125 VAC 1/4 hp, 125 VAC 1/4 hp, 250 VAC 1/3 hp, 250 VAC TV-5 (40°C, 25,000 operations) 600 W, 120 VAC (tungsten) 530 VA, 20 to 265 VAC, 2 A max. (pilot duty) 43.2 VA, 30 VDC (pilot duty) 12LRA, 2.2FLA, 30 VDC (30,000 operations)

Note: UL Recognition tests performed at 80°C for 6,000 operations unless otherwise specified.

CSA Certified (File No. LR31928)

Model	Contact form	Coil rating	Contact rating
G6C-1114P-US G6C-1114C-US G6C-1117P-US G6C-1117C-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (general use) 10 A, 30 VDC (resistive load) 1/6 hp, 125 VAC 1/4 hp, 125 VAC 1/4 hp, 250 VAC 1/3 hp, 250 VAC TV-5 600 W, 120 VAC (tungsten)
G6C-2114P-US G6C-2114C-US G6C-2117P-US G6C-2117C-US	SPST-NO + SPST-NC		8 A, 250 VAC (general use) 8 A, 30 VDC (resistive load) 1/6 hp, 125 VAC 1/4 hp, 125 VAC 1/4 hp, 250 VAC TV-5 600 W, 120 VAC (tungsten)

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Model	Contact form	Coil rating	Contact rating	Number of test operations
G6C-1114P-US G6C-1114C-US G6C-1117P-US G6C-1117C-US	SPST-NO	3, 12, 24 VDC	10 A, 250 VAC ($\cos\phi = 1$) 5 A, 250 VAC ($\cos\phi = 0.4$)	100,000 operations
G6C-2114P-US G6C-2114C-US G6C-2117P-US G6C-2117C-US	SPST-NO + SPST-NC	Single-stable: 3, 5, 12, 24 VDC Latching: 5 VDC G6CU-2117P-VD: 3 VDC	7 A, 250 VAC ($\cos\phi = 1$) 3.5 A, 250 VAC ($\cos\phi = 0.4$)	100,000 operations