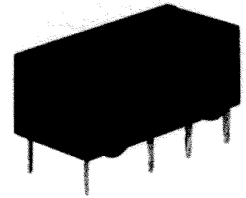


G6A

Low Signal Relay

Features

- High-sensitivity telecom relay – can be driven by digital circuits
- Low-profile design allows use in 1/2-inch PC board rack
- Surge withstand voltage meets FCC Part 68 Regulation
- Units can be mounted side by side due to low magnetic leakage
- Single- and dual coil latching types also available
- Special models available for ultrasonic cleaning and low thermo-electromotive force
- Unique moving loop (permanent magnet) armature reduces relay size, magnetic interference and contact bounce time
- Reliable bifurcated crossbar contacts
- UL listed, CSA certified



Contact Data

Contact ratings

G6A(K)-234P: AgPd (Au clad): 125 VAC, 0.3 A; 30 VDC, 1 A
G6A(K)-274P: Ag (Au clad): 125 VAC, 0.5 A; 30 VDC, 2 A

Carry current 3 A

Maximum operating voltage 250 VAC, 220 VDC

Maximum operating current 2 A (DC), 1 A (AC)

Maximum switching capacity 125 VA, 60 W

Minimum permissible load 10µA, 10mVDC

Coil Data (% of rated voltage)

Pickup voltage 70% max.

Dropout voltage 10% min.

Set voltage 70% max.

Reset voltage 70% max.

Maximum voltage 200% at 23°C max.

Characteristic Data

Initial contact resistance 50mΩ max.

Operate time 5ms max. (actual value: approx. 3ms)

Release time 3ms max. (actual value: approx. 1.2ms)

Set time – latching 5ms max. (actual value: approx. 2.5ms)

Reset time – latching 5ms max. (actual value: approx. 2.5ms)

Insulation resistance 1,000MΩ min. (at 500 VDC)

Dielectric strength

Between coil and contacts, between contacts of different poles, and between contacts of same pole: 1,000 VAC, 50/60 Hz for 1 minute
Between set and reset coils: 250 VAC, 50/60 Hz for 1 minute

Surge withstand voltage 1,500 V 10 x 160µs (conforms to FCC Part 68 Regulation)

Ambient temperature -40° to 70°C

Service life

Mechanical: 100,000,000 operations min.

(at operating frequency of 36,000 operations/hour)

Electrical: G6A-234P: 1,000,000 operations min. at 1 A, 30 VDC

G6A-274P: 4,000,000 operations min. at 1 A, 30 VDC

Construction Data

Termination PCB terminals

Construction Fully-sealed

Weight

.12 oz. (3.5 g)

Packaging method Tubes

Ordering Information

Part number	Rated voltage (VDC)	Coil res. (Ohms)	Power (mW)	Contact form	Type
G6A-234P-ST-US	-DC5	125	200	DPDT	Non-Latching
	-DC12	720	200	DPDT	Latching
	-DC24	2,880	200	DPDT	Sealed
	-DC48	9,750	235	DPDT	
G6A-234P-ST15-US	-DC5	167	150	DPDT	Non-Latching
	-DC12	960	150	DPDT	Latching
	-DC24	3,840	150	DPDT	High-Sensitivity
	-DC48	15,000	150	DPDT	Sealed
G6A-234P-ST40-US	-DC5	62.5	400	DPDT	Non-Latching
	-DC12	360	400	DPDT	Latching
	-DC24	1,440	400	DPDT	Low-Sensitivity
	-DC48	5,760	400	DPDT	Sealed
G6AK-234P-ST-US	-DC5	139	180	DPDT	Dual
	-DC12	800	180	DPDT	Coil
	-DC24	3,200	180	DPDT	Latching
	-DC48	11,520	200	DPDT	Sealed
G6AK-234P-ST40-US	-DC5	69	360	DPDT	Dual
	-DC12	400	360	DPDT	Coil
	-DC24	1,600	360	DPDT	Latching
	-DC48	6,400	360	DPDT	Low-Sensitivity
G6A-274P-ST-US	-DC5	125	200	DPDT	Non-Latching
	-DC12	720	200	DPDT	Latching
	-DC24	2,880	200	DPDT	Standard
	-DC48	9,750	235	DPDT	
G6A-274P-ST40-US	-DC5	62.5	400	DPDT	Non-Latching
	-DC12	360	400	DPDT	Latching
	-DC24	1,440	400	DPDT	Low-Sensitivity
	-DC48	5,760	400	DPDT	
G6AK-274P-ST-US	-DC5	139	180	DPDT	Dual
	-DC12	800	180	DPDT	Coil
	-DC24	3,200	180	DPDT	Latching
	-DC48	11,520	200	DPDT	Standard

Note: 1. Single coil latching versions also available.
 2. 4-pole versions also available.