

G6B

Power PCB Relay

Features

- Meets FCC Part 68 requirements
- Subminiature 20.06 mm (.79 in.) L x 9.90 mm (.39 in.) W x 9.90 mm (.39 in.) H
- Low power consumption
- Sealed construction permits automatic soldering and cleaning of the PC board
- High-capacity type available
- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference and contact bounce time
- Reverse coil polarity available with some models



Contact Data

Contact ratings

Standard (Latching & Non-latching): 5 A, 250 VAC, 30 VDC (Resistive); 2 A, 250 VAC, 30 VDC (Inductive); 1/6 HP, 250 VAC; 2 A, 125 VAC, Pilot duty; 3 A, 120 VAC (Tungsten)

Contact material

AgCdO

Maximum operating voltage

380 VAC, 125 VDC

Maximum operating current

Standard: 5 A

Maximum switching capacity

Standard, resistive: 1,250 VA, 150 W

Minimum permissible load

10 mA at 5 VDC

Coil Data (% of rated voltage)

Pickup voltage 70% max. (SPST-NO); 80% max.

Dropout voltage 10% min.

Set voltage 70% max.

Reset voltage 70% max.

Maximum voltage 130% (SPST-NO, latching); 110% (2-pole type)

Characteristic Data

Initial contact resistance 30mΩ max.

Operate time 10ms max. (mean value: approx. 3.5ms)

Release time 10ms max. (mean value: approx. 1.5ms)

***Set time-latching** 10ms max. (mean value: approx. 3ms)

***Reset time-latching** 10ms max. (mean value: approx. 3ms)

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

Dielectric strength

Between coil and contacts: 3,000 VAC, 50/60 Hz for 1 minute

Between contact sets: 2,000 VAC, 50/60 Hz for 1 minute

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

Ambient temperature -25° to 70°C

Service life

Mechanical: 50,000,000 operations min.

Electrical: 100,000 operations min. at 5 A, 250 VAC, 30 VDC (Standard)

Note: 1. * Minimum set and reset signal width is 15ms.

Construction Data

Termination PCB terminals

Construction Fully-sealed

Weight

Standard: .12 oz (3.5 g)

Two-pole: .16 oz (4.5 g)

Latching: .13 oz (3.7 g)

Packaging method Tubes

Ordering Information

Part number	Rated voltage (V)	Coil res. (Ohms)	Power (mW)	Contact rating	Type
G6B-1114P-US-DC5	5 DC	125	200	5 A	SPST-NO
-DC6	6 DC	180	200	5 A	Non-
-DC12	12 DC	720	200	5 A	Latching
-DC24	24 DC	2,880	200	5 A	Standard
G6B-2114P-US-DC5	5 DC	83.3	300	5 A	SPST-NO +
-DC6	6 DC	120	300	5 A	SPST-NC
-DC12	12 DC	480	300	5 A	Non-
-DC24	24 DC	1,920	300	5 A	Latching Standard
G6B-2214P-US-DC5	5 DC	83.3	300	5 A	DPST-NO
-DC6	6 DC	120	300	5 A	Non-
-DC12	12 DC	480	300	5 A	Latching
-DC24	24 DC	1,920	300	5 A	Standard
G6BK-1114P-US-DC5	5 DC	89.2	280	5 A	SPST-NO
-DC12	12 DC	515	280	5 A	Dual-Coil
-DC24	24 DC	2,060	280	5 A	Latching
G6BU-1114P-US-DC5	5 DC	125	200	5 A	SPST-NO
-DC12	12 DC	720	200	5 A	Single Coil
-DC24	24 DC	2,880	200	5 A	Latching

Note: 1. Other coil voltages available.