



**PCB Power Relay – G5SB**

Load	Resistive Load
Rated load	3 A (NO)/3 A (NC) at 125 VAC 5 A (NO) at 250 VAC 3 A (NO) at 250 VAC 5 A (NO)/3 A (NC) at 30 VDC
Contact material	AgNi + AgSnIn
Rated carry current	5 A (NO)/3 A (NC)
Max. switching voltage	250 VAC, 30 VDC
Max. switching current	5 A (NO)/3 A (NC)
Max. switching capacity	1,250 VA, 150 W (NO) 750 VA, 30 W (NC)
Min. permissible load	10 mA at 5 VDC

**■ Contact Ratings**

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

**■ Characteristics**

Contact resistance (see note 2)	100 mΩ max.
Operate time (see note 3)	10 ms max.
Release time (see note 3)	5 ms max.
Insulation resistance (see note 4)	1,000 MΩ min.
Dielectric strength	4,000 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
Impulse withstand voltage	8 kV (1.2 x 50 μs)
Insulation Creepage (Typ)	6.7 mm
Distance	5.8 mm
Tracking Resistance CTI	250 V
Vibration resistance	Destruction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
Shock resistance	Destruction: 1,000 m/s <sup>2</sup> (approx. 100 G) Malfunction: Energized: 100 m/s <sup>2</sup> (approx. 10 G) Non-energized: 100 m/s <sup>2</sup> (approx. 10 G)
Endurance (see note 5)	Mechanical: 5,000,000 operations (18,000 operations per hour) Electrical: 200,000 operations: 3 A (NO)/3 A (NC) at 125 VAC resistive load 50,000 operations: 5 A (NO)/3 A (NC) at 125 VAC resistive load 50,000 operations: 5 A (NO) at 250 VAC resistive load 100,000 operations: 3 A (NC) at 250 VAC resistive load 100,000 operations: 5 A (NO)/3 A (NC) at 30 VDC resistive load Switching frequency: 1,800 operations per hour
Ambient temperature	Operating: -40°C to 70°C with no icing or condensation
Ambient humidity	Operating: 5% to 85%
Weight	Approx. 6.5 g

Note: 1. The data shown above are initial values.  
2. The contact resistance is possible with 1 A applied at 5 VDC using a fall-of-potential method.  
3. The operating time is possible with the operating voltage imposed with no contact bounce at an ambient temperature of 23°C.  
4. The insulation resistance is possible between coil and contacts and between contacts of the same polarity at 500 VDC.  
5. The electrical durability data items shown are possible at 23°C.

**PCB Power Relay – G5SB**

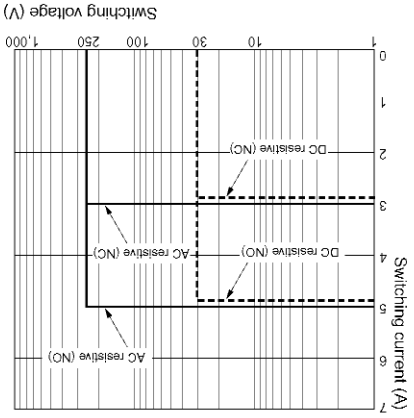
**■ Approved Standards**  
UL508 (File No. E41515)/CSA C22.2 (No.14) (File No. LR31928)  
EN 61810-1 (VDE Reg. no 40003957)

G5SB	Model	5 to 24 VDC
	Coil ratings	3 A, 125 VAC (resistive) NO only 2 A, 125 VAC (resistive) NC only 5 A, 250 VAC (resistive) NO only 3 A, 250 VAC (resistive) NC only 5 A, 30 VDC (resistive) NO only
	Contact ratings	

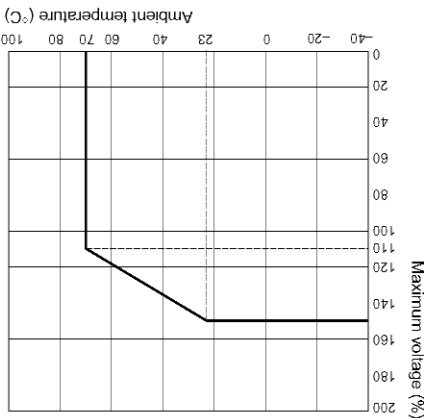
Electrical endurance tests are performed at 70°C. Number of test operations = 6,000

**Engineering Data**

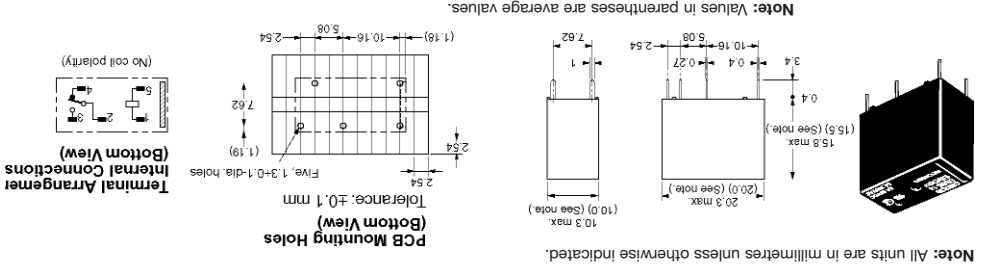
**Max. Switching Capacity**



**Ambient Temperature vs. Maximum Voltage**



**Dimensions**



**ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.**  
To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

CAT. No. K122-E2-01A-X



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