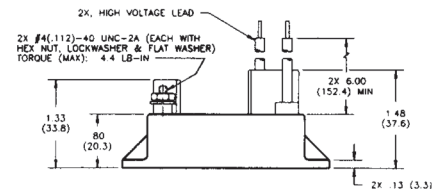
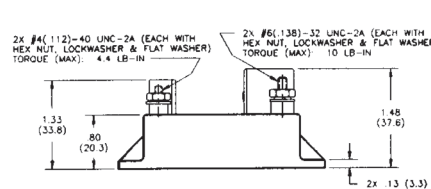
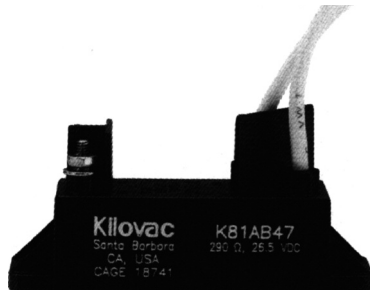
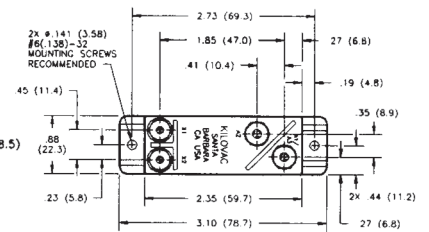
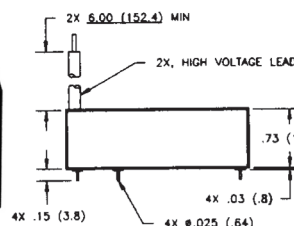
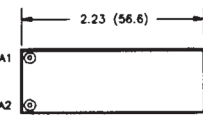
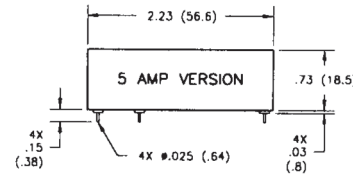
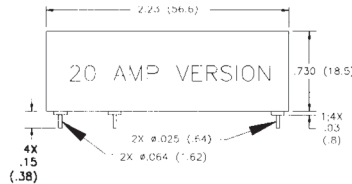
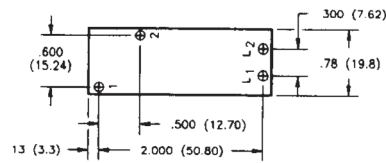
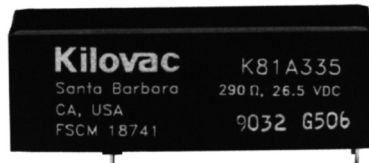


K81 A/B Series Make & Break Load Switching — 10 kV Relays

Product Facts

- 10 kV PC board-mount relay
- Vacuum dielectric for power switching low current loads
- Flying leads or PCB mount for high voltage connections
- Meets requirements of MIL-R-83725
- Completely sealed; suitable for test equipment
- Panel mount available for ease of mounting



Product Specifications

Contact Arrangement —

K81A — SPST-NO
K81B — SPST-NC

Contact Form —

K81A — A
K81B — B

Test Voltage, DC or 60 Hz (Peak) — 11 kV

Rated Operating Voltage (Peak) — DC or 60 Hz — 10 kV

Continuous Carry Current, Max. — DC or 60 Hz — 5 A, 20 A or 30 A
Coil Hi-Pot (Vrms, 60 Hz) — N/A

Contact Resistance, Max. — 0.03 ohm

Operate Time, Max. — 10 ms

Release Time, Max. — 10 ms

Shock, 11ms, 1/2 Sine (Peak) — 30 g

Vibration —

Peak — 10 g (55 to 500 Hz)

Operating Ambient Temperature Range — -55°C to +85°C

Mechanical Life

— 2 million cycles

Weight, Nominal —

56.7 g (2 oz.)

Notes:

1. PC pin versions carry 5 or 20 Amps, see part number at right. Flying lead and panel versions carry 30 Amp.

*Power terminal on 20 Amp version is a larger diameter than on the 5 Amp version (.025 = 5 Amp, .064 = 20 Amp)

Coil Data

Volts, Nominal DC	12 V	26.5 V	115 V
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	70 Ω	290 Ω	4700 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ▶

K81 A 3 3 5

Series:

Contact Form:
A = SPST-NO B = SPST-NC

Coil Voltage:

2 = 12 Vdc, PC Board 3 = 26.5 Vdc, PC Board
5 = 115 Vdc, PC Board
A = 12 Vdc, Stud Terminals, Panel Mount
B = 26.5 Vdc, Stud Terminals, Panel Mount
C = 115 Vdc, Stud Terminals, Panel Mount

High Voltage Connections:

A* = PCB Solder Connection — 20 Amp
3 = PCB Solder Connection — 5 Amp
4 = Flying Leads 5 = Stud Terminals

Mounting:

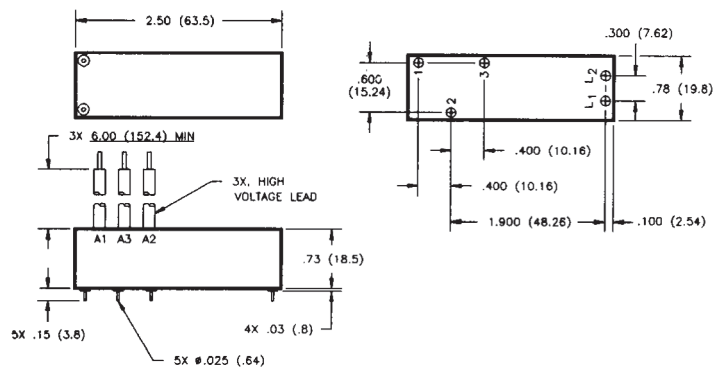
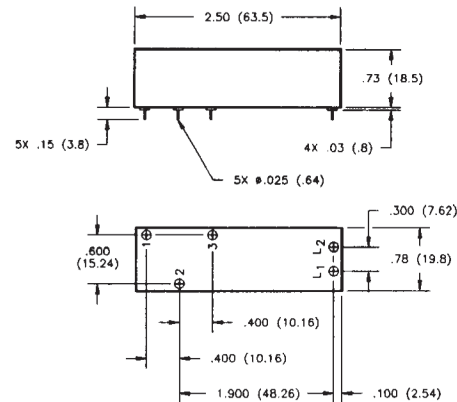
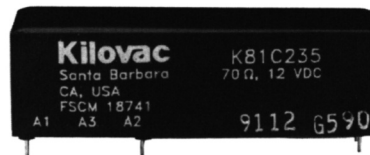
5 = PC Board 7 = Panel Mount

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

K81C Series Make & Break Load Switching — 10 kV Relays

Product Facts

- SPDT version of K81
- Vacuum dielectric for power switching low current loads
- Flying lead version will carry 10 Amps continuous current
- PCB mount version will carry 5 Amps continuous current



Product Specifications

- Contact Arrangement** — SPDT
Contact Form — C
Test Voltage, DC or 60 Hz (Peak) — 11 kV
Rated Operating Voltage (Peak) — DC or 60 Hz — 10 kV

- Continuous Carry Current, Max.** — DC or 60 Hz — See Note 1
 Coil Hi-Pot (Vrms, 60 Hz) — N/A
Contact Resistance, Max. — 0.05 ohm
Operate Time, Max. — 10 ms
Release Time, Max. — 10 ms

- Shock, 11ms, 1/2 Sine (Peak)** — 30 g
Vibration — Peak — 10 g (55 to 500 Hz)
Operating Ambient Temperature Range — -55°C to +85°C
Mechanical Life — 2 million cycles
Weight, Nominal — 70.87 g (2.5 oz.)

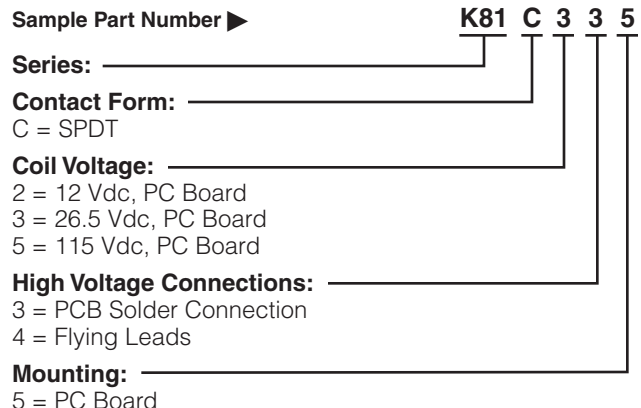
Note:
 1. 5 Amp carry for PC pin versions.
 30 Amp carry for flying lead versions.

Coil Data

Volts, Nominal DC	12 V	26.5 V	115 V
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	70 Ω	290 Ω	4700 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information



For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

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