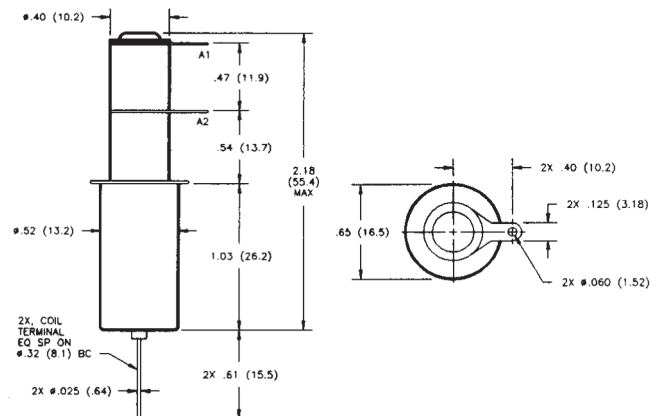


## K43 Series Make & Break Load Switching — 10 kV Relays

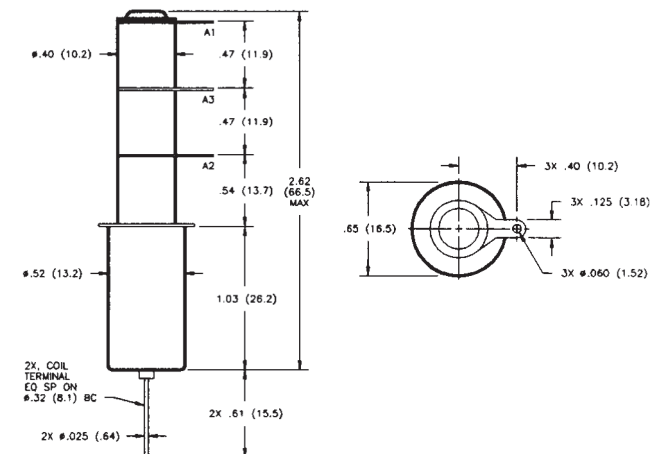
### K43A and K43B Product Facts for K43A and K43B

- 10 kV, 25 Amps continuous current relay
- RF ratings to 32 MHz
- Vacuum dielectric for power switching low current loads
- 2 million cycle mechanical life
- QPL versions available, M83725/17 & M83725/10



### K43C Product Facts for K43C

- SPDT version of K43
- Vacuum dielectric for power switching low current loads
- Flange mounting available
- Carries 10 Amps at 32 MHz
- Meets requirements of MIL-R-83725
- QPL version available, M83725/16



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

### Product Specifications for K43A, K43B and K43C

#### Contact Arrangement —

K43A — SPST-NO  
K43B — SPST-NC  
K43C — SPDT

#### Contact Form —

K43A — A  
K43B — B  
K43C — C

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

**Rated Operating Voltage (Peak)** —  
DC or 60 Hz — 10 kV  
2.5 MHz — 7 kV  
16 MHz — 6 kV  
32 MHz — 4 kV

**Continuous Carry Current, Max.** —  
DC or 60 Hz — 25 A  
2.5 MHz — 20 A  
16 MHz — 13 A  
32 MHz — 10 A  
Coil Hi-Pot (Vrms, 60 Hz) — 500 A

**Contact Capacitance** —  
Between Open Contacts — 1.2 pF  
Open Contacts to Ground — 1.2 pF

**Contact Resistance, Max.** — 0.02 ohm

**Operate Time, Max.** — 10 ms

**Release Time, Max.** — 10 ms

**Shock, 11ms, 1/2 Sine (Peak)** — 50 g

**Vibration** —  
Peak — 10 g (55 to 2000 Hz)

**Operating Ambient Temperature Range** — -55°C to +125°C

**Mechanical Life** — 2 million cycles

**Weight, Nominal** — 28.35 g (1 oz.)

**\*See page 7-87 for turret terminal dimensions and mounting methods.**

### 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 ▶

**Series:**

**Contact Form:**

A = SPST-NO B = SPST-NC C = SPDT

**Coil Voltage:**

2 = 12 Vdc, Bus Wire 3 = 26.5 Vdc, Bus Wire  
5 = 115 Vdc, Bus Wire 7 = 12 Vdc, Turret Terminal\*  
8 = 26.5 Vdc, Turret Terminal\*  
9 = 115 Vdc, Turret Terminal\*

**High Voltage Connections:**

3 = Solder Connection

**Mounting\*:**

2 = Flanged

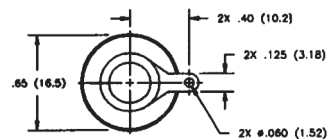
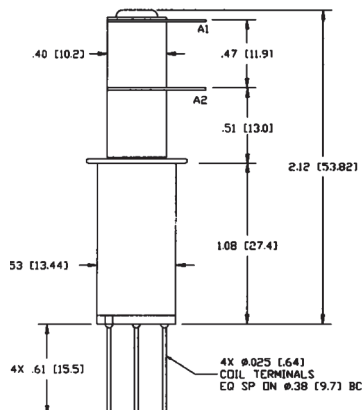
4 = Standard

## K43 Series Make & Break Load Switching — 10 kV Relays (Continued)

### KILOVAC K43P Make & Break Load Switching

#### Product Facts for K43P

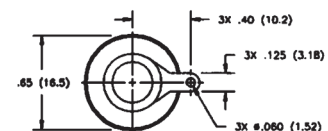
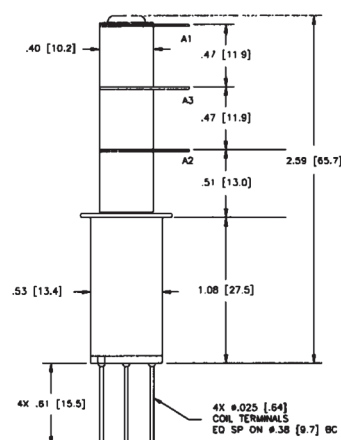
- High power rating; 24 Amps DC continuous current carry
- Vacuum dielectric for power switching low current loads
- Low power consumption
- Fast operating: 5 millisecond operate time
- Meets requirements of MIL-R-83725



### KILOVAC K43R Make & Break Load Switching

#### Product Facts for K43R

- Single pole, double throw contacts with latching actuator
- Vacuum dielectric for power switching low current loads
- Carries 6 Amps at 32 MHz
- Meets requirements of MIL-R-83725



#### Product Specifications for K43P and K43R

##### Contact Arrangement —

K43P — SPST-Latching  
K43R — SPDT-Latching

##### Contact Form —

K43P — P  
K43R — R

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

##### Rated Operating Voltage (Peak) —

DC or 60 Hz — 10 kV  
2.5 MHz — 7 kV  
16 MHz — 6 kV  
32 MHz — 4 kV

##### Continuous Carry Current, Max. —

DC or 60 Hz — 24 A  
2.5 MHz — 16 A  
16 MHz — 9 A  
32 MHz — 6 A  
Coil Hi-Pot (Vrms, 60 Hz) — 500 A

##### Contact Capacitance —

Between Open Contacts — 1.2 pF  
Open Contacts to Ground — 1.2 pF

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

**Contact Resistance, Max. —**  
0.02 ohm

##### Operate Time, Max. —

K43P — 5 ms  
K43R — 6 ms

##### Release Time, Max. — N/A

**Shock, 11ms, 1/2 Sine (Peak) —**  
30 g

##### Vibration —

Peak — 7 g (55 to 2000 Hz)

##### Operating Ambient Temperature

Range — -55°C to +125°C

##### Mechanical Life — 1 million cycles

##### Weight, Nominal —

28.35 g (1 oz.)

#### Coil Data

| Volts, Nominal         | 26.5 Vdc |
|------------------------|----------|
| Latch & Reset, Max.    | 16 Vdc   |
| Dropout                | N/A      |
| Coil Resistance (±10%) | 80 Ω     |

Ratings listed are for 25°C, sea level conditions

#### Ordering Information

##### Sample Part Number ►

##### Series: \_\_\_\_\_

##### Contact Form: \_\_\_\_\_

P = SPST-Latching R = SPDT-Latching

##### Coil Voltage: \_\_\_\_\_

3 = 26.5 Vdc, Bus Wire

##### High Voltage Connections: \_\_\_\_\_

3 = Solder Connection

##### Mounting: \_\_\_\_\_

2 = Flanged

4 = Standard

**K43 P 3 3 4**

**\*See page 7-87 for mounting methods.**