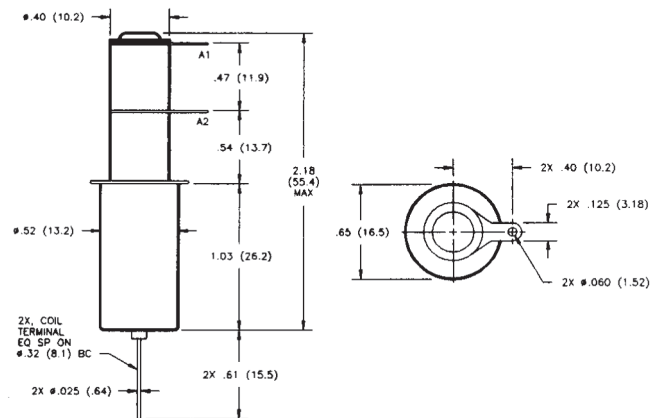


K43 Series Make & Break Load Switching — 10 kV Relays

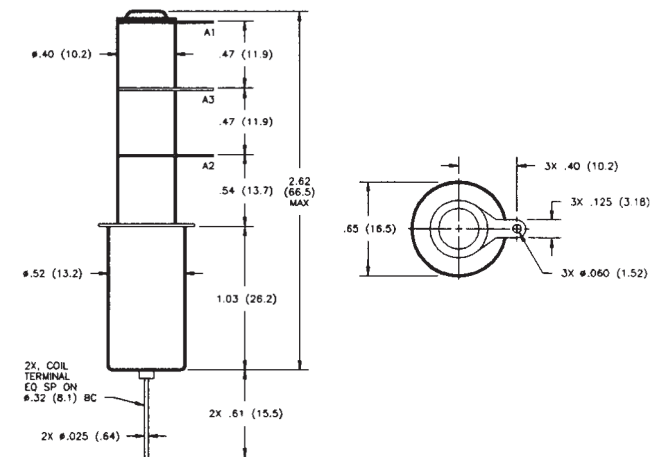
K43A and K43B Product Facts for K43A and K43B

- 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

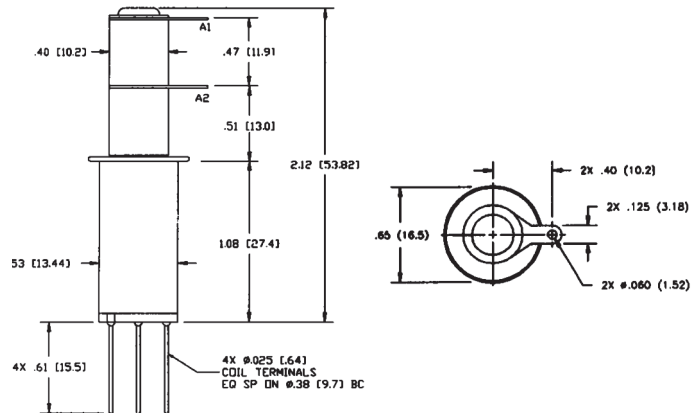
4 = Standard

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

KILOVAC K43P Make & Break Load Switching

Product Facts for K43P

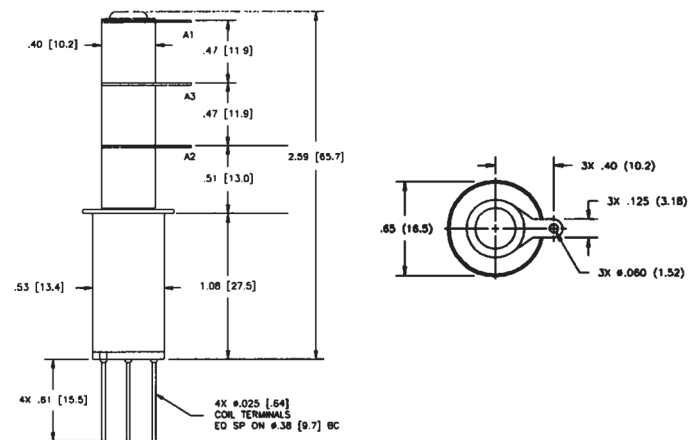
- High power rating; 24 Amps DC continuous current carry
- Vacuum dielectric for power switching low current loads
- Low power consumption
- Fast operating: 5 millisecond operate time
- Meets requirements of MIL-R-83725



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.)

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

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