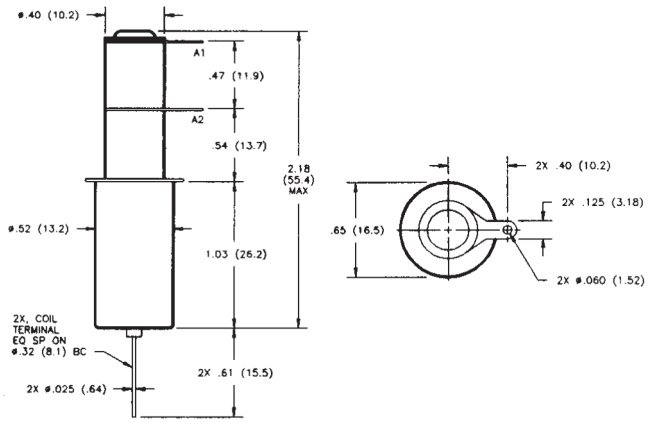
K43 Series Make & Break Load Switching — 10 kV Relays

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

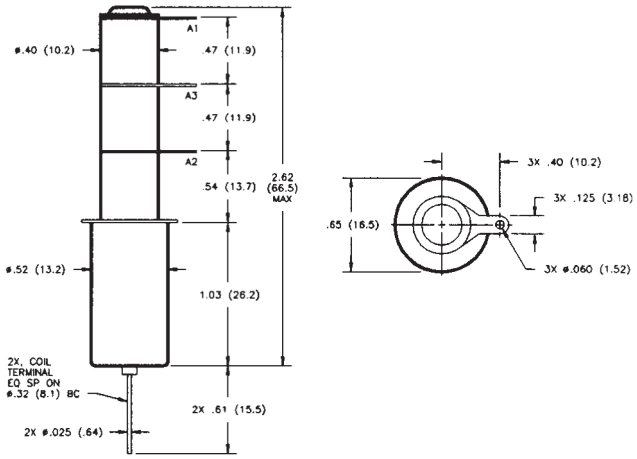




K43C Product Facts for K43C

- 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 ▶ **K43 A 3 3 4**

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

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

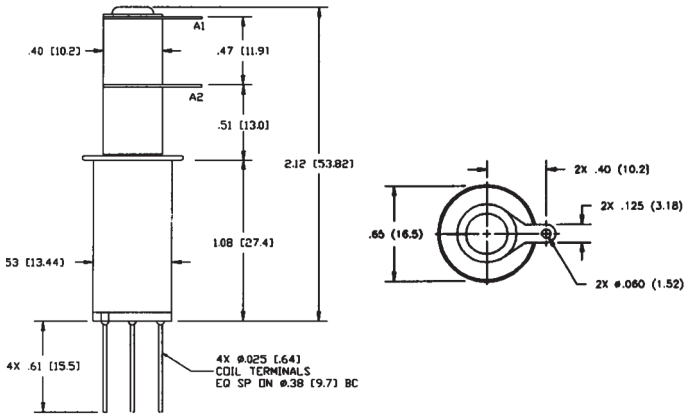
USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

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

KILOVAC K43P Make & Break Load Switching



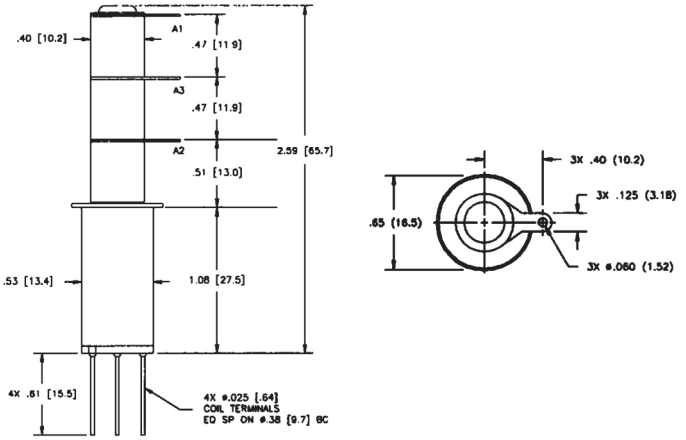


Product Facts for K43P

- **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 ▶ **K43 P 3 3 4**

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

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com