B

High Voltage Vacuum Relay, Latching

Features

Physical:
- Hermetically Sealed: arc contained
- Maintenance Free

Environmental:
-
-

Power Switching:
-
-
-

Coil Voltage & Power:
-
-

Preliminary Specifications.
Subject to change.

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TITLE: High Voltage Vacuum Relay, Latching

PREP. BY	J C McAllister	
CHKD. BY		

DWG NO. K43P

CAGE CODE 18741 | SCALE | SHEET

General Specifications

B

Physical Data	Units	K43P
Contact Arrangement		SPST
Form		Latching
Dimensions	mm	
Weight, Maximum	oz	1

Environmental Data

Shock, 11ms ½ sine (operating) Vibration, 7 g_{peak}	g_{peak} Hz	30 55-2000
Operating Temperature Range	°C	-55 to +125

Electrical Data

Test Voltage	kV peak	11
Rated Operating Voltage		
dc or 60 Hz	kV_{peak}	10
2.5 MHz	kV_{peak}	7
16 MHz	kV_{peak}	6
32 MHz	kV_{peak}	4
Continuous Current Carry, Maximum		
dc or 60 Hz	A RMS	24
2.5 MHz	A RMS	16
16 MHz	A RMS	9
32 MHz	A RMS	6
Coil Hi-Pot	V RMS	500
Contact Capacitance		
Between Open Contacts	pH	1.2
Open Contacts to Ground	pH	1.2
Contact Resistance	mΩ	0.020
Mechanical Life	cycles	1000000

Mechanical Data

Operate Time[5], Maximum	ms	6

1. Resistive load includes inductance L = 25uH.
2. For 600A carry use three 00 cables (203 mm^2).
3. For greater than 600A carry call factory and request “Current Carry Study of EV500 (Bubba Type) Relays”
4. Testing is limited at this time. Consult factory for official ratings.
5. Operate Time, Release Time, and Contact Bounce are all measured with the relay stabilized at 25 C and operated with nominal coil voltage. Operate Time includes bounce. For normally closed relays, operate time refers to opening of the relay (i.e. operating the coil) and release time to closing the relay

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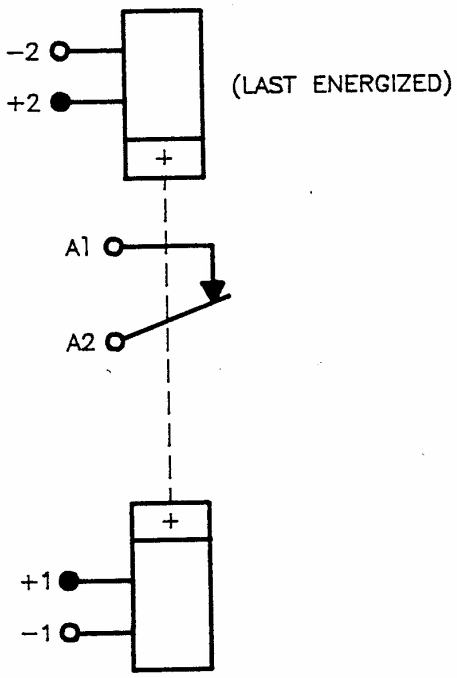
Coil & Electronics Data

	Units	K43P334 K43P332
Coil Voltage, Nominal	Vdc	26.5
Coil Resistance	Ω	80
Drop-out Voltage	Vdc	16

1. External coil suppression not required. Internal suppression limits back E.M.F to 0V.
   OR: **Do not use a free wheeling diode or capacitor across coil.**
   OR External economization required
   OR Do not ramp voltage / current down. Relay require a quick release.
2. Definitions:
   Operating Voltage: The range where the relay will pickup without being damaged.
   Hold: The minimum voltage / current above which the energized state is guaranteed during shock, vib., etc. For normally closed relays, this the contacts are open in this state.
   Drop out: The range of voltages / currents where the relay will release on the bench.
3. Typical source current pulses for economizing mode:

Schematic



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K43P

THIRD ANGLE PROJECTION

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SHEET 2 of 5

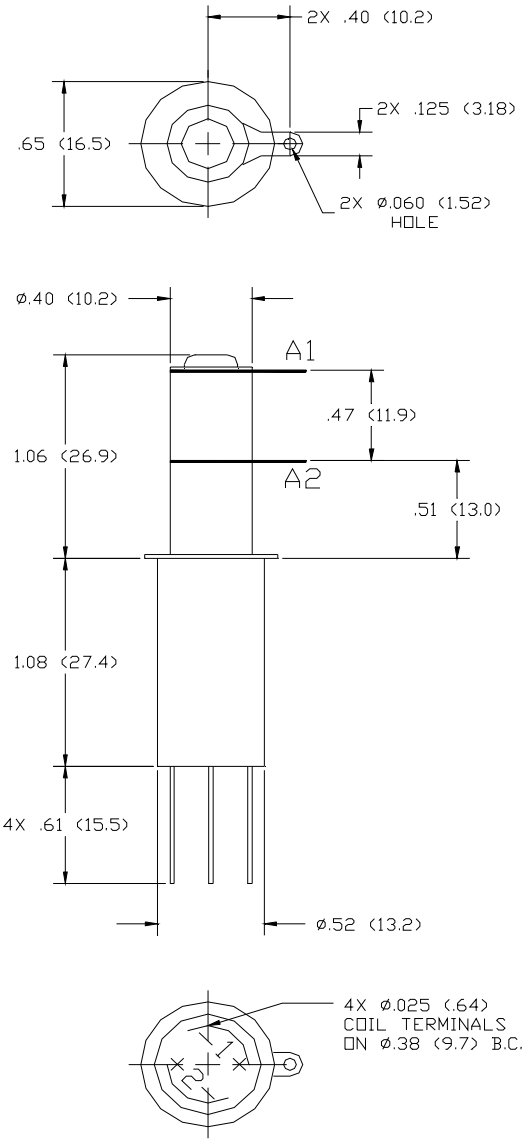

Fig. 1 OUTLINE FOR P/N K43P334

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Part Drawing

B

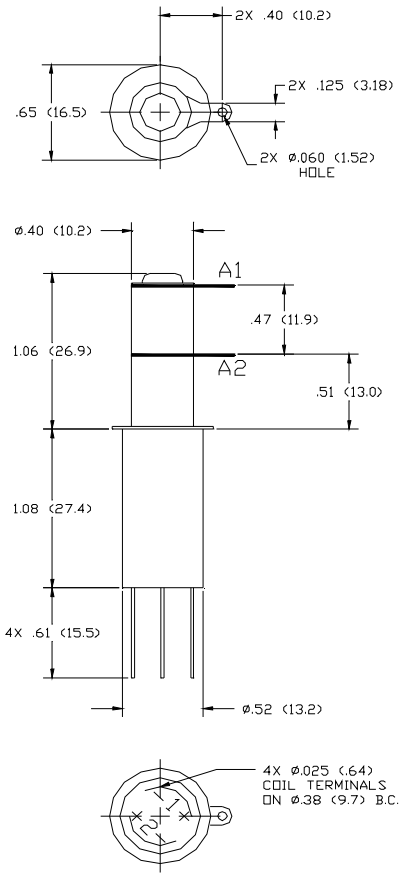

Fig. 1 OUTLINE FOR P/N K43P334

Dimensions in Inches
(Dimensions in Parentheses are in Millimeters)
Tolerances Accepted as Noted
.xx = ± .03
.xxx = ± .010
∠ x° = ± 2°
DO NOT SCALE DWG.

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