

GENERAL PURPOSE 320VDC, 10A VACUUM RELAY

Features

Physical:

- Hermetically Sealed: arc contained
- Maintenance free

Environmental:

- Temperature range -35°C to 65°C
- 25G Shock

Power Switching:

- 320 Volts



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series\PD005A_sales_dwg_B.doc

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TITLE

GENERAL PURPOSE 320VDC, 10A VACUUM RELAY

PREP. BY	Tanner	93.8.13	DWG NO. PD10B		
CHKD. BY	Kohlmeier	93.8.13			
			CAGE CODE	SCALE	SHEET
ENG APRVL	Kohlmeier	93.8.13	18741		1 of 7

General Specifications**Physical Data****Units**

Contact Arrangement		SPST-NC
Form		B

Environmental Data

Shock, 11ms ½ sine (operating)	g	25
Vibration, Sinusoidal (55-2000 Hz)	g	5
Operating Temperature Range	°C	-35to +65
Operational Altitude, Maximum	Ft.	15000

Electrical Data

Rated Operating Voltage	Vdc	320
Rated Resistive Load @320 Vdc	Amps	10
Load Life, Minimum	Cycles	10000
Overload, Switched	Adc	20
Overload Contact Life, Minimum	Cycles	50
Continuous Current Carry, Maximum	Adc	10
Dielectric Strength @ Sea Level		
Coil to Power Terminals	Vrms	1800
All Other Points	Vrms	2000
Dielectric Strength @ 15000 ft. all points	Vrms	500
Insulation Resistance @ 500 Vdc, Minimum		
Before Life	MΩ	100
After Life	MΩ	50
Contact Resistance, Maximum	Ω	0.030

Mechanical Data**Units**

Operate Time, Maximum	ms	10
Release Time, Maximum	ms	10



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PD10B

THIRD ANGLE PROJECTION



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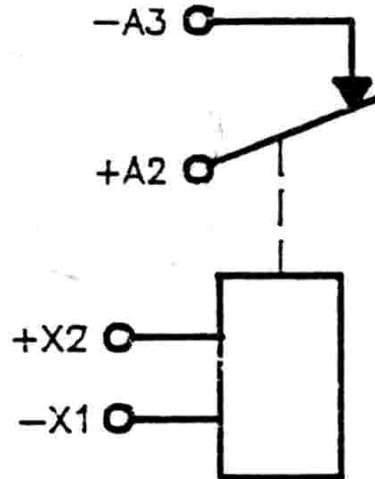
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Coil Data

REV.
B

	Units	12/14	24/28	125/130
Coil Voltage, Nominal/Maximum	Vdc	12/14	24/28	125/130
Pickup Voltage, Maximum	Vdc	8	16	80
Dropout Voltage	Vdc	.3-6	.7-12	5-55
Coil Resistance ($\pm 10\%$ @25°C)	Ω	70	290	4700

Schematic For Figure 2 Only



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Part Number Selection

REV.
B

SAMPLE PART NUMBER: PD10B **B** **5** **7**

COIL OPTIONS

- 2 = 12 Vdc - PC BOARD (SEE FIGURE 1)
- 3 = 24 Vdc - PC BOARD (SEE FIGURE 1)
- 5 = 125 Vdc - PC BOARD (SEE FIGURE 1)
- A = 12 Vdc - STUD TERMINAL (SEE FIGURE 2)
- B = 24 Vdc - STUD TERMINAL (SEE FIGURE 2)
- C = 125 Vdc - STUD TERMINAL (SEE FIGURE 2)

POWER TERMINAL OPTIONS

- 3 = PC BOARD (SEE FIGURE 1)
- 5 = STUD TERMINAL (SEE FIGURE 2)

MOUNTING OPTIONS

- 5 = PC BOARD MOUNT (SEE FIGURE 1)
- 7 = PANEL MOUNT (SEE FIGURE 2)



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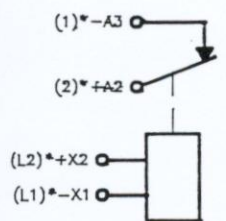
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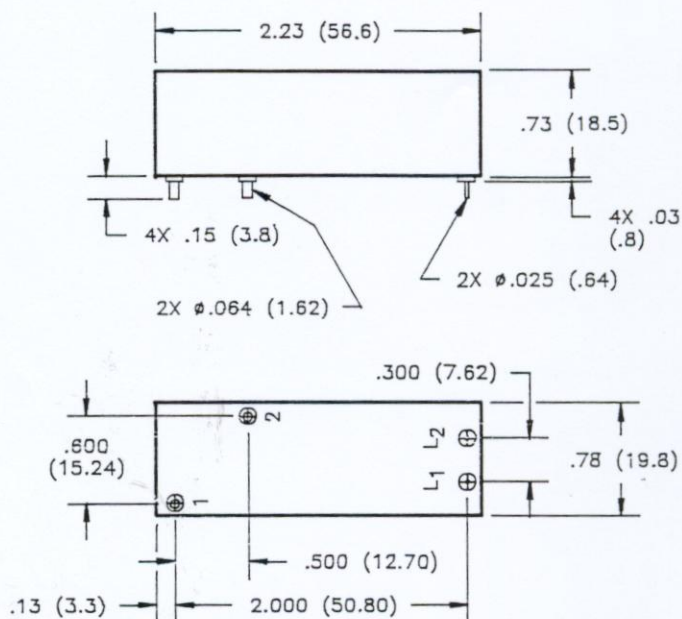
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Part Drawing**SCHEMATIC**

*HARDWARE MARKING
WILL BE AS SHOWN
IN PARENTHESES.



WEIGHT, MAX (oz): 2.00

AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
2 = 12 Vdc - PCB TERMINALS	3 = PCB TERMINALS	5 = PCB MOUNT
3 = 24 Vdc - PCB TERMINALS		
5 = 125 Vdc - PCB TERMINALS		

(PART NUMBER, CONTACT RATINGS, COIL VOLTAGE/RESISTANCE AND SCHEMATIC ARE MARKED ON SIDES OF RELAY.)

FIGURE 1: PC BOARD STYLE MOUNTING WITH PC BOARD TERMINALS

Dimensions in Inches

(Dimensions in Parentheses are in
Millimeters)

Tolerances Accepted as Noted

.XX = $\pm .03$

.XXX = $\pm .010$

$\angle X^\circ = \pm 2^\circ$

DO NOT SCALE DWG.

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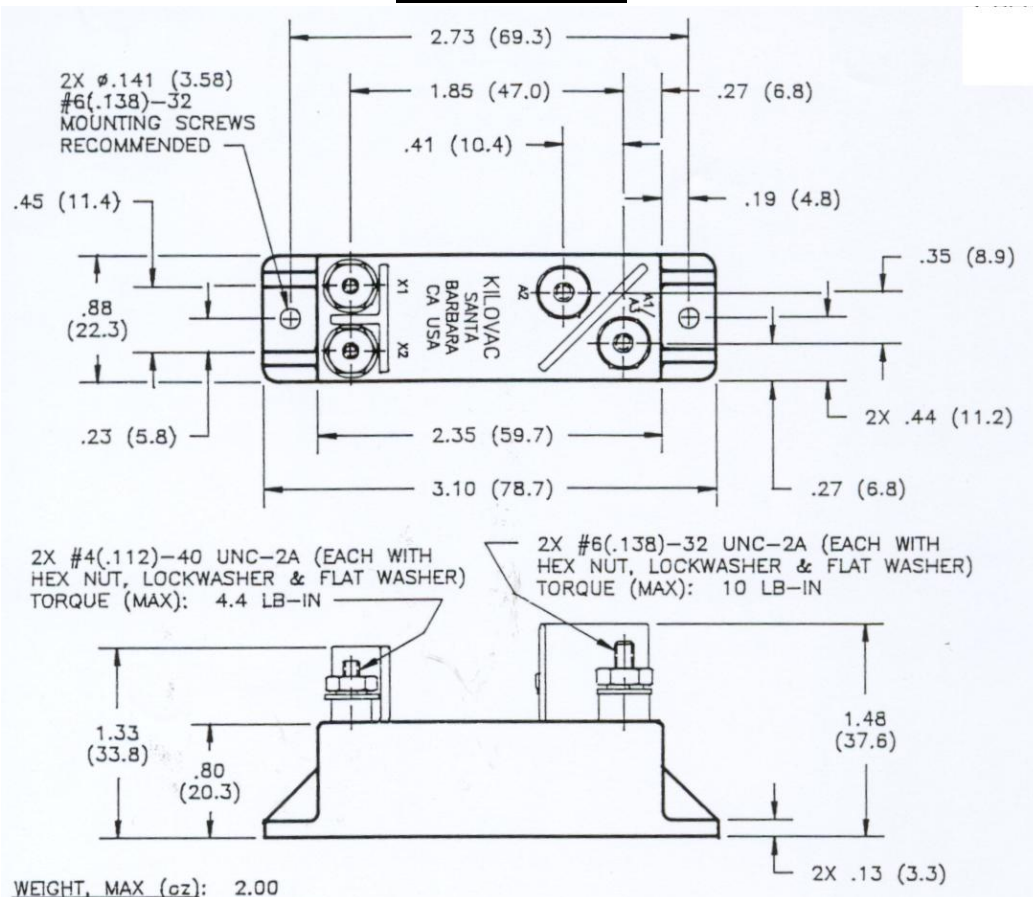
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Part Drawing**AVAILABLE OPTIONS:**

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
A = 12 Vdc - STUD TERMINALS	5 = STUD TERMINALS	7 = PANEL MOUNT
B = 24 Vdc - STUD TERMINALS		
C = 125 Vdc - STUD TERMINALS		

(PART NUMBER, CONTACT RATINGS, COIL VOLTAGE/RESISTANCE AND SCHEMATIC ARE MARKED ON SIDES OF RELAY.)

FIGURE 2: PANEL STYLE MOUNTING WITH STUD TERMINALS**Dimensions in Inches**(Dimensions in Parentheses are in
Millimeters)

Tolerances Accepted as Noted

.xx = $\pm .03$.xxx = $\pm .010$ $\angle x^\circ = \pm 2^\circ$

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REV.
B

Revisions

REV.	DESCRIPTION	DATE	APP.
A	Initial Concept	93/08/13	PWK
B	New Template DCO 11856	99/12/14	PWK



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