REVISIONS						
REV.	DESCRIPTION	DATE	APPROVED			
А	INITIAL RELEASE NPR 9210	750477	PWK			

## SALES DRAWING

			-					
REV.	STAT	us c	F SH	HEETS	3	1 <i>8</i> 11	P.O. BOX 4422	
REV.	А	А	А	А	А	<b>Kilovac</b> ®	Santa Barbara, CA 93140-4422	
SHEET	1	2	3	4	5	Corporation		
REV.	А	А	А	А	А	TITLE GENERAL PURPOSE AEROSPACE		
SHEET	6	7	8	9	10	270VDC,	5A VACUUM RELAY	
PREP. BY	,	TANNI	ER	94-	4-1	AP5C SERIES		
CHKD. B	Y	W		94-	4-19	AI 30 SERIES		
						CAGE CODE	SHEET 1 OF 10	
ENG. APP	RVL.	ohlm	ial	94.09	1.19	18741		

#### SPECIFICATIONS:

D	ч٧	'SI	C	Δ١
~	п	- 01	•	ML

CONTACT ARRANGEMENT	SPDT
FORM	С

#### ENVIRONMENTAL

ENVIRONMENTAL	
	50
SHOCK, 11 MS 1/2 SINE (g, Peak)	40
VIBRATION, SINUSOIDAL (55-1500 Hz; g PEAK)	10
	-55 TO +85
OPERATING TEMPRATURE (°C)	00.000
OPERATIONAL ALTITUDE, MAX. (FT.)	80,000
OPERATIONAL ACTITODE, WAS \$1.5	

070
270
5*
10,000
10
SEE TABLE I
OCC TABLET

TABLE I	ADC
AP5C232, AP5C234, AP5C332, AP5C334, AP5C532, AP5C534	15
AP5C732, AP5C734, AP5C832, AP5C834, AP5C932, AP5C934	
AP5C235, AP5C335, AP5C535	5
AP5C245, AP5C345, AP5C545	10

OTHER DATA	
DIELECTRIC STRENGTH AT SEA LEVEL (VRMS)	500
COIL TO CASE	500
ALL OTHER POINTS	2,000
DIELECTRIC STRENGTH AT 80,000 FT,	500
ALL POINTS (VRMS)	500
OPERATE TIME, MAX., INCLUDING BOUNCE AT	
NOMINAL VOLTAGE (ms)	10
RELEASE TIME, MAX, (ms)	10
INSULATION RESISTANCE, 500 Vdc, MIN. (MEGOHMS)	1.00
BEFORE LIFE	100
AFTER LIFE	50
CONTACT RESISTANCE, MAX. (OHMS)	SEE TABLE II

TABLE II	OHMS
AP5C232, AP5C234, AP5C332, AP5C334, AP5C532, AP5C534	.010
AP5C732, AP5C734, AP5C832, AP5C834, AP5C932, AP5C934	
AP5C235, AP5C245, AP5C335, AP5C345, AP5C535, AP5C545	.030
AP5C235, AP5C245, AP5C666, AF6C666, AF6C666	

#### COIL DATA

COIL DATA			120
COIL VOLTAGE, NOMINAL (Vdc)	12	28	120
COIL VOLTAGE, ITOITIME	14	32	140
COIL VOLTAGE, MICH.	10	24	100
PICK-UP VOLTAGE, MAX. (Vdc)	3-6	7-12	5-55
DROP-OUT VOLTAGE, (Vdc)		290	4700
COIL RESISTANCE (OHMS ± 10% @ 25°C)	53	290	7,00

#### NOTES:

RATINGS LISTED ARE ACROSS THE OPERATING TEMPERATURE RANGE.

\*THE LOAD TERMINALS SHOULD ALWAYS BE CONNECTED AS FOLLOWS: COMMON CONTACT +; OTHER CONTACTS -.

#### **DIMENSIONS IN INCHES**

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

 $.xx = \pm .03$ 

 $.xxx = \pm .010$ 

 $x^{\circ} = \pm 2^{\circ}$ DO NOT SCALE DWG.

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## AP5C SERIES

CAGE CODE 18741 SCALE

NONE

SHEET

### PART NUMBER SELECTION

SAMPLE PART NUMBER: AP5C 3 COIL OPTIONS 2 = 12 Vdc - BUS WIRE/PC BOARD (SEE FIGURES 1, 2, 5 & 6) 3 = 28 Vdc - BUS WIRE/PC BOARD (SEE FIGURES 1, 2, 5 & 6) 5 = 120 Vdc - BUS WIRE/PC BOARD (SEE FIGURES 1, 2, 5 & 6) 7 = 12 Vdc - TURRET TERMINAL (SEE FIGURES 3 & 4) 8 = 28 Vdc - TURRET TERMINAL (SEE FIGURES 3 & 4) 9 = 120 Vdc - TURRET TERMINAL (SEE FIGURES 3 & 4) POWER TERMINAL OPTIONS 3 = SOLDER CONNECTION/PC BOARD (SEE FIGURES 1-5) 4 = FLYING LEAD (SEE FIGURE 6) MOUNTING OPTIONS (SEE FIGURES 1 & 3) 2 = FLANGED MOUNT 4 = THROUGH CHASSIS MOUNT (SEE FIGURES 2 & 4) 5 = PC BOARD MOUNT (SEE FIGURES 5 & 6)

DIMENSIONS IN INCHES (DIMENSIONS IN PARENTHESES ARE IN

MILLIMETERS)
TOLERANCES EXCEPT AS NOTED

 $.xx = \pm .03$ 

 $.xxx = \pm .010$ 

 $x^{\circ} = \pm 2^{\circ}$ DO NOT SCALE DWG. Klovac®

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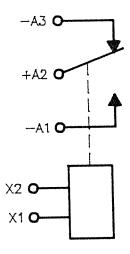
SCALE

NONE

SHEET

### **SCHEMATIC**

(FOR FIGURES 1-4 ONLY)



## DIMENSIONS IN INCHES (DIMENSIONS IN PARENTHESES ARE IN

MILLIMETERS)
TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$

$$.xxx = \pm .010$$

$$x^{\circ} = \pm 2^{\circ}$$
  
DO NOT SCALE DWG.

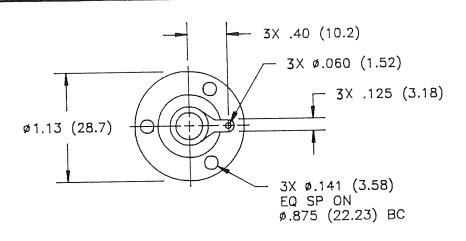
Kilovac<sup>®</sup>

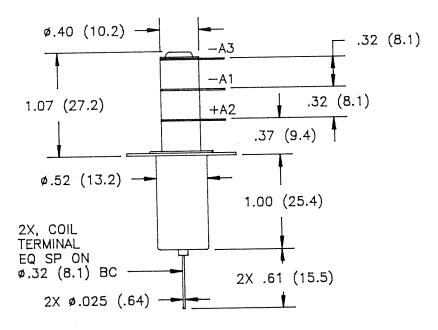
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## AP5C SERIES

CAGE CODE 18741 SCALE NONE

SHEET





#### AVAILABLE OPTIONS:

or nong.							
COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS					
2 = 12 Vdc - BUS WIRE LEADS 3 = 28 Vdc - BUS WIRE LEADS 5 = 120 Vdc - BUS WIRE LEADS		2 = FLANGED MOUNT					

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

FIGURE 1: FLANGED STYLE MOUNTING WITH SOLDER TYPE POWER TERMINALS AND BUS WIRE COIL LEADS

### DIMENSIONS IN INCHES

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$
  
 $.xxx = \pm .010$   
 $x^2 = \pm .2^\circ$   
DO NOT SCALE DWG.

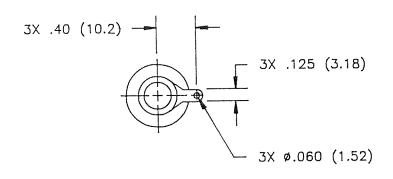
Kilovac®

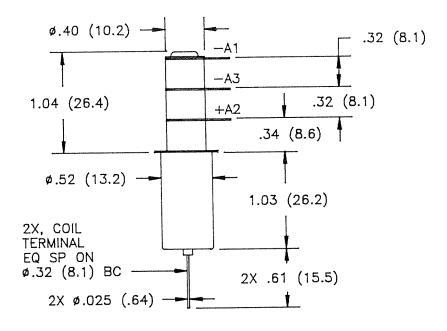
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SHEET





#### AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
2 = 12 Vdc - BUS WIRE LEADS 3 = 28 Vdc - BUS WIRE LEADS 5 = 120 Vdc - BUS WIRE LEADS		4 = THROUGH CHASSIS MOUNT

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

FIGURE 2: THROUGH CHASSIS STYLE MOUNTING WITH SOLDER TYPE POWER TERMINALS AND BUS WIRE COIL LEADS

### DIMENSIONS IN INCHES

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

 $.xx = \pm .03$   $.xxx = \pm .010$   $x^{\circ} = \pm .2^{\circ}$ DO NOT SCALE DWG.

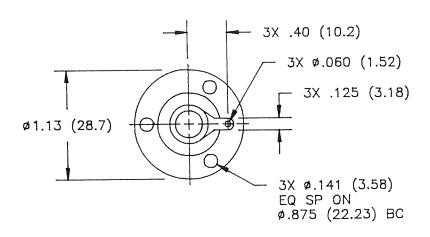
# Kiovac®

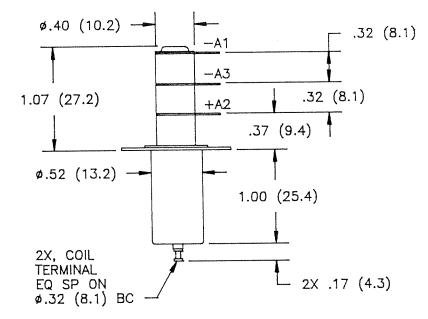
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## AP5C SERIES

cage code 18741 SCALE 1:1

SHEET





#### AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
7 = 12 Vdc - TURRET TERMINALS 8 = 28 Vdc - TURRET TERMINALS 9 = 120 Vdc - TURRET TERMINALS		2 = FLANGED MOUNT

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

FIGURE 3: FLANGED STYLE MOUNTING WITH SOLDER TYPE POWER TERMINALS AND TURRET COIL TERMINALS

### DIMENSIONS IN INCHES

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

 $.xx = \pm .03$  $.xxx = \pm .010$ 

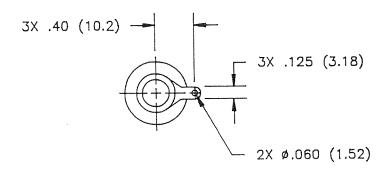
 $x^{\circ} = \pm 2^{\circ}$ DO NOT SCALE DWG. Kilovac®

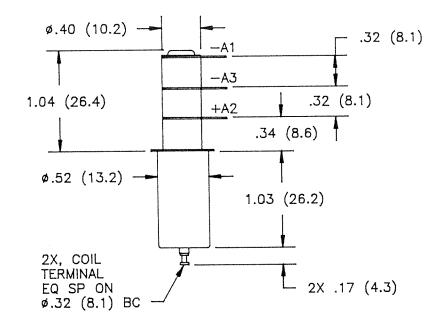
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### AP5C SERIES

CAGE CODE 18741 SCALE **1:1** 

SHEET





**AVAILABLE OPTIONS:** 

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
7 = 12 Vdc - TURRET TERMINALS 8 = 28 Vdc - TURRET TERMINALS 9 = 120 Vdc - TURRET TERMINALS	3 = SOLDER CONNECTIONS	4 = THROUGH CHASSIS MOUNT

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

FIGURE 4: THROUGH CHASSIS STYLE MOUNTING WITH SOLDER TYPE POWER TERMINALS AND TURRET COIL TERMINALS

#### DIMENSIONS IN INCHES

(DIMENSIONS IN PARENTHESES ARE IN MILL:IMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$
  
 $.xxx = \pm .010$   
 $x^2 = \pm .2^\circ$   
DO NOT SCALE DWG.

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## AP5C SERIES

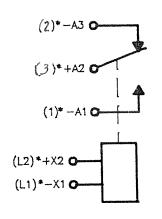
SCALE

CAGE CODE 18741

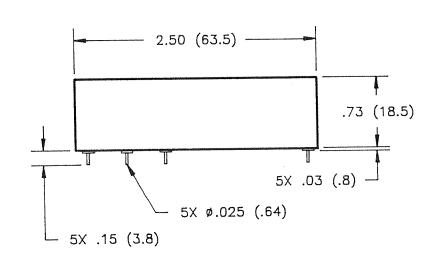
1:1

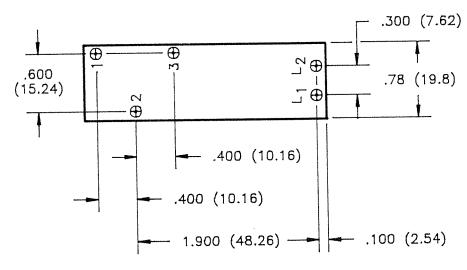
SHEET





\*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 = 28 Vdc - PCB TERMINALS 5 = 120 Vdc - PCB TERMINALS	3 = PCB TERMINALS	5 = PCB MOUNT

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

FIGURE 5: PC BOARD STYLE MOUNTING WITH PC BOARD TERMINALS

### DIMENSIONS IN INCHES

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$

$$.xxx = \pm .010$$

$$x^{\circ} = \pm 2^{\circ}$$

DO NOT SCALE DWG.

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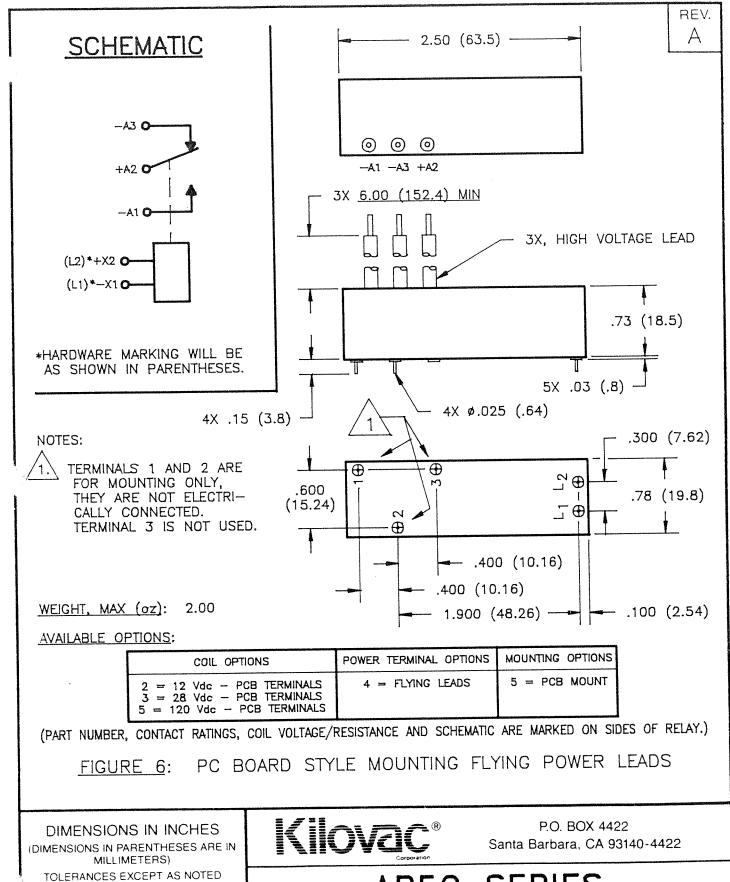
## AP5C SERIES

cage code 18741 SCALE 1:1

SHEET

9

REV.



 $.xxx = \pm .010$   $x^{\circ} = \pm 2^{\circ}$ DO NOT SCALE DWG.

 $.xx = \pm .03$ 

AP5C SERIES

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SHEET