REVISIONS									
REV.		DESCRIPTIO	DATE	APPROVED					
A	INITIAL	RELEASE	NPR	9051	93-08-02	Kohlmeier			

SALES DRAWING

											,									
						R	EVIS	ION	STAT	US (OF S	HEET	S							
REV.	Α	Α	Α	А	Α	Α	Α	A	Α	А	Α	Α								
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	au							
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REV.								}	j	$ar{a}$	C	3)	S	anta				22 3140-	4422	
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SHEET							270VDC, 10A VACUUM RELAY													
PREP. BY	Т	ANNE	.R 9	3-07	-23	DWG	G. NO.			1	\ P	10	۱P		S F	R	۱F	7		
CHKD. B	1 Ko	hlme	ièr	93.08	-02					<i></i>	~ 1	1 (<u> </u>		<u> </u>		. 1 3			
						CAC	SE CO	DE					SH	HEET		1		OF	1	2
ENG. APF	IVL X	ohlo	rear	93.06	3.02				1	874	-1	<u> </u>								

REV. Α

SPECIFICATIONS:

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CONTACT ARRANGEMENT	SPST-NC
FORM	В
NVIRONMENTAL	
SHOCK, 11 MS 1/2 SINE (g, Peak)	50
VIBRATION, SINUSOIDAL (55-2000 Hz; g PEAK)	10
OPERATING TEMPERATURE (°C)	-55 TO +85
OPERATIONAL ALTITUDE, MAX. (FT.)	80,000
LECTRICAL	
The state of the s	

CTRICAL	
CONTACT RATING	
OPERATING VOLTAGE (Vdc)	270
RATED RESISTIVE LOAD @ 270 VDC (Amps)	10*
LOAD LIFE, MIN. (CYCLES)**	7,000
OVERLOAD, SWITCHED (Adc)	20
OVERLOAD CONTACT LIFE, MIN (CYCLES)	50
CONTINUOUS CURRENT CARRY, MAX. (Adc)	SEE TABLE

TABLE I	ADC
AP10B232, AP10B234, AP10B332, AP10B334, AP10B532, AP10B534	15
AP10B732, AP10B734, AP10B832, AP10B834, AP10B932, AP10B934	
AP10BA57, AP10BB57, AP10BC57	
AP10B235, AP10B245, AP10B335, AP10B345, AP10B535, AP10B545,	10
AP10BA47, AP10BB47, AP10BC47	

OTHER DATA

OTHER DATA	
DIELECTRIC STRENGTH AT SEA LEVEL (VRMS)	
COIL TO CASE	500
ALL OTHER POINTS	2,000
DIELECTRIC STRENGTH AT 80,000 FT, ALL POINTS (VRMS)	500
DIELECTRIC STRENGTHAT 00,000 FT, ACT OF MINAL VOLTAGE (me)	10
OPERATE TIME, MAX., INCLUDING BOUNCE AT NOMINAL VOLTAGE (ms)	10
RELEASE TIME, MAX. (ms)	10
INSULATION RESISTANCE, 500 Vdc, MIN. (MEGOHMS)	
BEFORE LIFE	100
	50
	SEE TABLE II
AFTER LIFE CONTACT RESISTANCE, MAX. (OHMS)	50

TABLE II	OHMS
AP10B232, AP10B234, AP10B332, AP10B334, AP10B532, AP10B534	.010
AP10B732, AP10B734, AP10B832, AP10B834, AP10B932, AP10B934	
AP10BA57, AP10BB57, AP10BC57	ļ
AP10B235, AP10B245, AP10B335, AP10B345, AP10B535, AP10B545	.030
AP10BA47, AP10BB47, AP10BC47	

COIL DATA

COIL DATA			T
COIL VOLTAGE, NOMINAL (Vdc)	12	28	120
COIL VOLTAGE, MAX. (Vdc)	14	32	140
PICK-UP VOLTAGE, MAX. (Vdc)	10	20	85
DROP-OUT VOLTAGE, (Vdc)	.3-6	.7-12	5-55
COIL RESISTANCE (OHMS ± 10% @ 25°C)	53	290	4700

NOTES: RATINGS LISTED ARE ACROSS THE OPERATING TEMPERATURE RANGE.

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

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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CAGE CODE 18741 SCALE

NONE

SHEET

^{**}USING WEIBULL RELIABILITY AT 95%. SEE ALSO LOAD LIFE GRAPH ON SHEET 4.

PART NUMBER SELECTION

SAMPLE PART NUMBER:	AP10 B B 5 7
CONTACT FORM: B = SPST-NC	
COIL OPTIONS 2 = 12 Vdc - BUS WIRE/PC BOARD (SEE FIGURE 3 = 28 Vdc - BUS WIRE/PC BOARD (SEE FIGURE 5 = 120 Vdc - BUS WIRE/PC BOARD (SEE FIGURE 7 = 12 Vdc - TURRET TERMINAL (SEE FIGURES 3 8 = 28 Vdc - TURRET TERMINAL (SEE FIGURES 3 9 = 120 Vdc - TURRET TERMINAL (SEE FIGURES A = 12 Vdc - STUD TERMINAL (SEE FIGURE 7 & B = 28 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc - STUD TERMINAL (SEE FIGURE 7 & C = 120 Vdc -	3 & 4) 3 & 4) 8)
POWER TERMINAL OPTIONS 3 = SOLDER CONNECTION/PC BOARD (SEE FIGURE 4 = FLYING LEAD (SEE FIGURES 6 & 7) 5 = STUD TERMINAL (SEE FIGURE 8)	ES 1-5)
MOUNTING OPTIONS 2 = FLANGED MOUNT (SEE FIGURES 1 & 3) 4 = THROUGH CHASSIS MOUNT (SEE FIGURES 2 & 5 = PC BOARD MOUNT (SEE FIGURES 5 & 6) 7 = PANEL MOUNT (SEE FIGURE 7 & 8)	& 4)

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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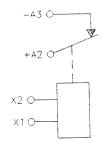
SCALE

NONE

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SCHEMATIC

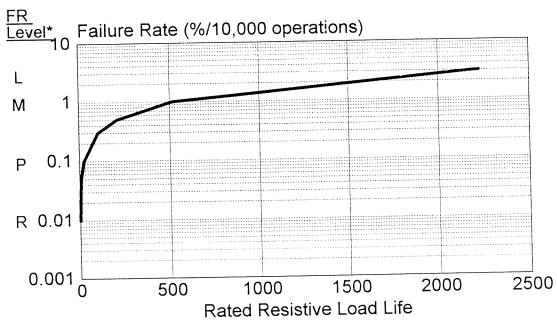
(FOR FIGURES 1-4, 7 & 8 ONLY)



NOTE: ON PANEL MOUNT OPTIONS, COIL TERMINALS ARE POLARIZED AS FOLLOWS: X1 IS NEGATIVE (-), X2 IS POSITIVE (+).

AP10B

Failure Rate vs. Rated Resistive Load Life at 10 A, 270 Vdc



* Failure Rate letter designations per MIL-STD-690

DIMENSIONS IN INCHES (DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$

 $.xxx = \pm .010$

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

DO NOT SCALE DWG.

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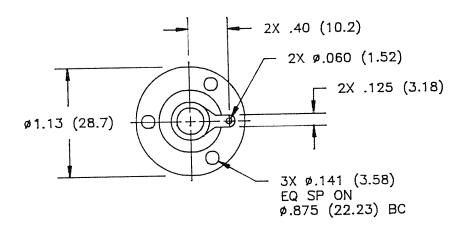
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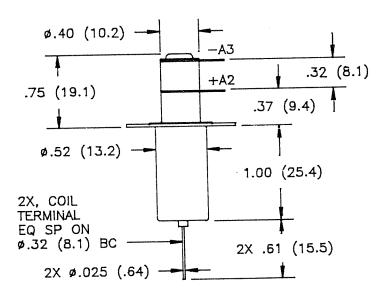
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CAGE CODE 18741

SCALE NONE

SHEET





AVAILABLE OPTIONS:

01 110119				
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

$$.xx = \pm .03$$

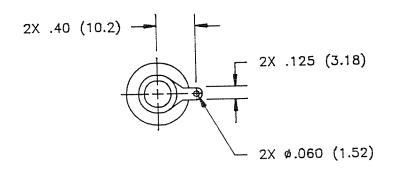
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DO NOT SCALE DWG.

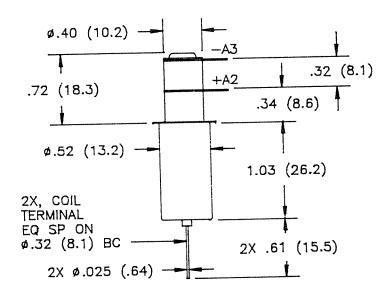
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18741		1.1		





AVAILABLE OPTIONS:

<u> </u>		
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	3 = SOLDER CONNECTIONS	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.

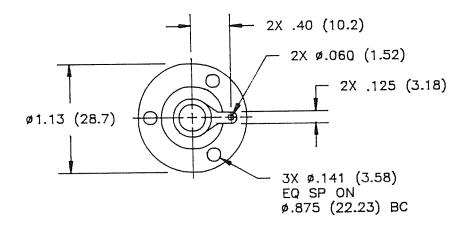
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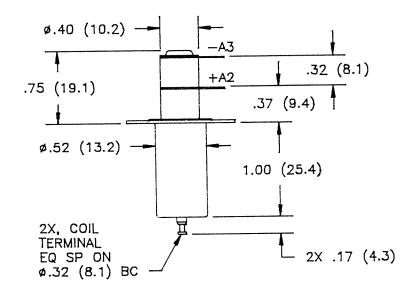
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SHEET





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

(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$

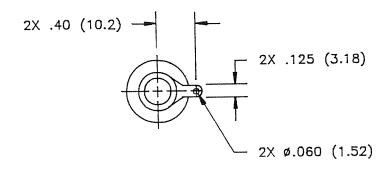
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 $xxx = \pm .010$
 $xxx = \pm .02$
DO NOT SCALE DWG.

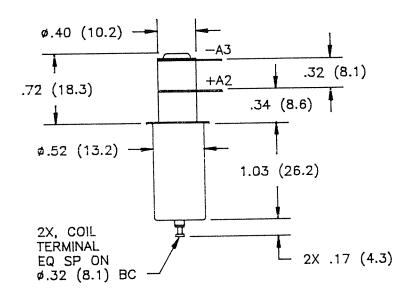


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	1		1	





AVAILABLE OPTIONS:

COIL OPTIONS		POWER TERMINAL OPTIONS	MOUNTING OPTIONS
7 = 12 Vdc - TURRET 8 = 28 Vdc - TURRET 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.)

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

DIMENSIONS IN INCHES (DIMENSIONS IN PARENTHESES ARE IN

MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

$$.xx = \pm .03$$

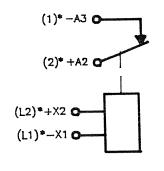
 $.xxx = \pm .010$
 $x^{\circ} = \pm .2^{\circ}$
DO NOT SCALE DWG.

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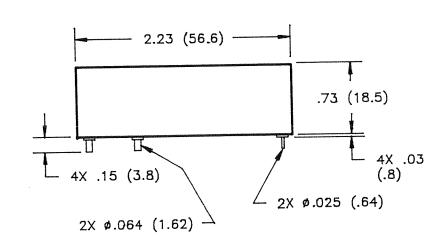
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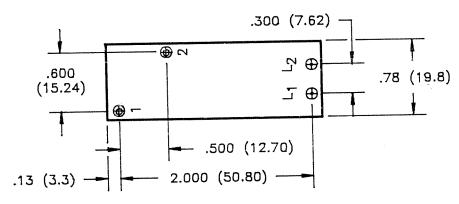
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SCHEMATIC



*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 = 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

$$.xx = \pm .03$$

 $.xxx = \pm .010$
 $xxx = \pm .010$
 $xxx = \pm .010$
 $xxx = \pm .02$
 $xxx = \pm .02$
 $xxx = \pm .03$
 $xxx = \pm .03$
 $xxx = \pm .03$
 $xxx = \pm .010$
 $xxx = \pm .02$

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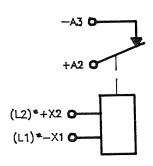
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1:1

cage code 18741 SCALE

SHEET

SCHEMATIC



*HARDWARE MARKING WILL BE AS SHOWN IN PARENTHESES.

NOTES:

FOR MOUNTING ONLY,

TERMINALS 1 AND 2 ARE THEY ARE NOT ELECTRICALLY CONNECTED.

WEIGHT, MAX (oz): 2.00

AVAILABLE OPTIONS:

	HORQ.		
Ì	COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
	2 = 12 Vdc - PCB TERMINALS 3 = 28 Vdc - PCB TERMINALS 5 = 120 Vdc - PCB TERMINALS	4 = FLYING LEADS	5 = PCB MOUNT

.13 (3.3)

.600 (15.24)

4x .15 (3.8)

.78

(19.8)

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

PC BOARD STYLE MOUNTING FLYING POWER LEADS FIGURE 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.

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10

REV. A

2.23 (56.6) —

2X, POWER LEAD

.73 (18.5) -

4X .03 (.8)

.300 (7.62)

₽₂

4X ø.025 (.64)

- .500 (12.70)

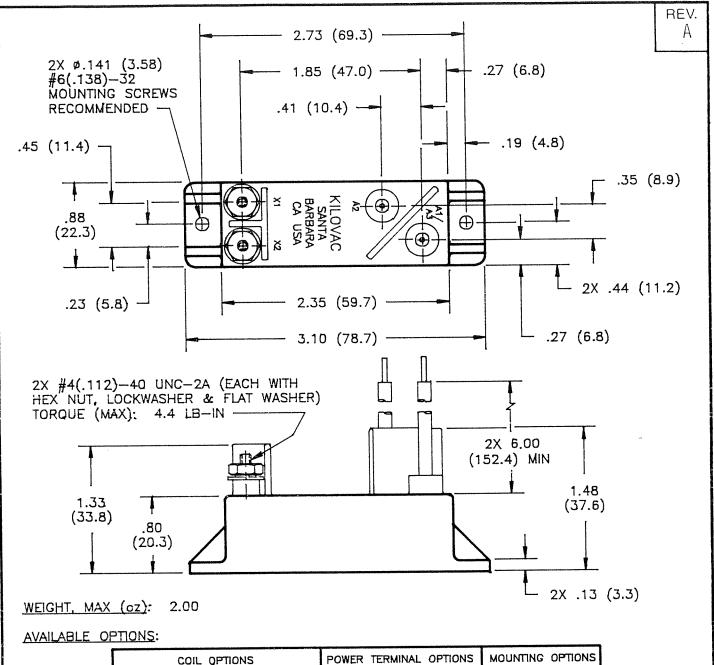
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2X 6.00 (152.4) MIN

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-A3 (0)

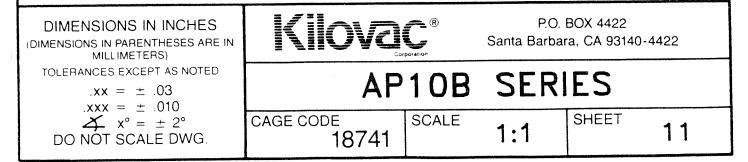
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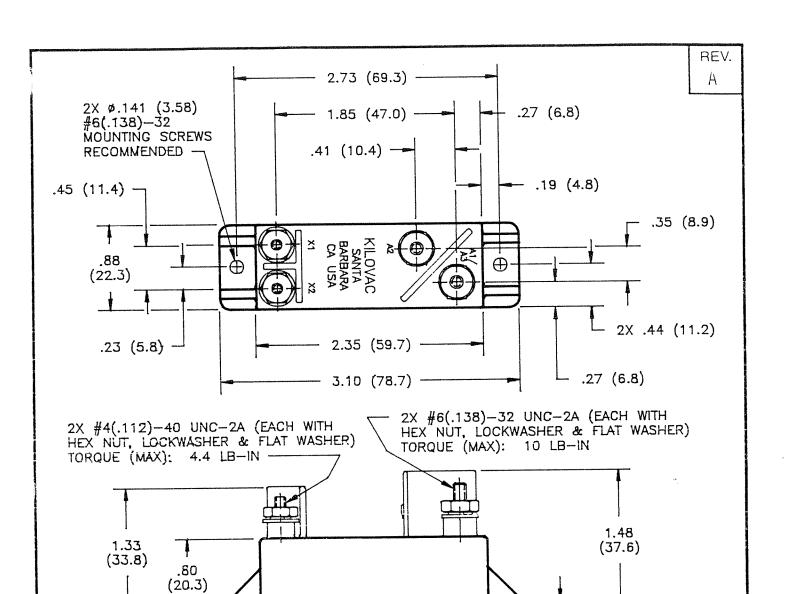


COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
A = 12 Vdc - STUD TERMINALS B = 28 Vdc - STUD TERMINALS C = 125 Vdc - STUD TERMINALS	4 = FLYING LEADS	7 = PANEL MOUNT

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

FIGURE 7: PANEL STYLE MOUNTING WITH FLYING POWER LEADS AND STUD COIL TERMINALS





AVAILABLE OPTIONS:

	COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
A = 12 B = 28 C = 125	Vdc — STUD TERMINALS Vdc — STUD TERMINALS Vdc — STUD TERMINALS	5 = STUD TERMINALS	7 = PANEL MOUNT

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

FIGURE 8: PANEL STYLE MOUNTING WITH STUD 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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2X .13 (3.3)

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SHEET

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H-8/S11 H-8/S68 ACC530U20 ACC730U30 RF303ZM4-12 DH18DA 1423675-8 AR4-15F13-C01 AR7-41F11 AVR907 15732A200
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