	F	REVISIONS		
REV.	DESCRIPTION	DATE	APPROVED	
Α	INITIAL RELEASE	NPR 9134	93.11.23	PWK
В	REV'D Pl & P6	ECO 9280	94.05.27	PWK

# SALES DRAWING

REV.	STA	TUS C	OF SH	HEETS	3	= #==			
REV.	В	А	А	А	А	<b>(1000</b> P.O. BOX 4422 Santa Barbara, CA 93140-4422			
SHEET	1	2	3	4	5	Corporation			
REV.	В					TITLE GENERAL PURPOSE AEROSPACE			
SHEET	6					270VDC, 10A VACUUM RELAY			
PREP. BY TANNER 93-11-5		l <b>-</b> 5	DWG. NO. AD10D SEDIES						
AP10P SERIES				AFTUF SERIES					
						CAGE CODE SHEET 1 OF 6			
ENG. APR	VL. K	shlm	iie	93.11	23	18741			

#### SPECIFICATIONS:

#### **PHYSICAL**

CONTACT ARRANGEMENT	SPST-LATCHING
FORM	P

#### **ENVIRONMENTAL**

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

#### **ELECTRICAL**

CONTACT RATING	
OPERATING VOLTAGE (Vdc)	270
RATED RESISTIVE LOAD @ 270 Vdc (Adc)	10*
LOAD LIFE, MIN. (CYCLES)	7000
OVERLOAD, SWITCHED (Adc)	20
CONTINUOUS CURRENT CARRY, MAX. (Adc)	15

#### **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
OPERATE TIME, MAX., INCL. BOUNCE AT NOM. VOLTAGE (ms)	6
RELEASE TIME, MAX. (ms)	6
INSULATION RESISTANCE, 500 Vdc, MIN. (M $\Omega$ )	
BEFORE LIFE	100
AFTER LIFE	50
CONTACT RESISTANCE, MAX. (mΩ)	
BEFORE LIFE	10
AFTER LIFE	20

### **COIL DATA**

COIL VOLTAGE, NOMINAL (Vdc)	28	120
COIL VOLTAGE, MAX. (Vdc)	29	125
LATCH & RESET VOLTAGE, MAX. (Vdc)	22	98
COIL RESISTANCE (OHMS ±10% @ 25°C)	80	1300

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 MILL IMETERS)

TOLERANCES EXCEPT AS NOTED

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

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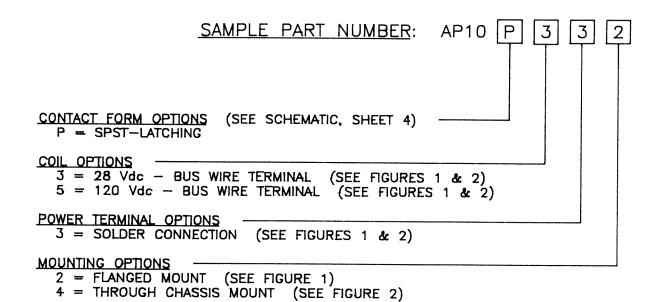
# AP10P SERIES

CAGE CODE **18741** 

SCALE NONE

SHEET

# PART NUMBER SELECTION



### 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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# AP10P SERIES

CAGE CODE

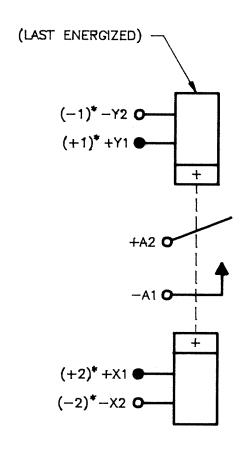
18741

SCALE

NONE

SHEET

# **SCHEMATIC**



\*HARDWARE MARKING WILL BE AS SHOWN IN PARENTHESES.

## **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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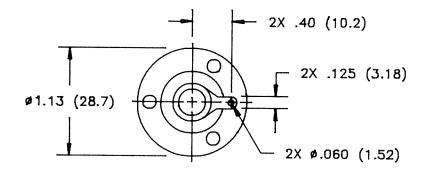
# AP10P SERIES

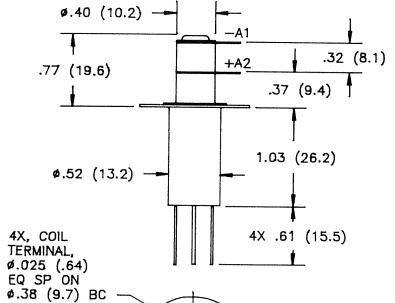
CAGE CODE 18741 SCALE

NONE

SHEET







WEIGHT, MAX (oz): 1.00

#### **AVAILABLE OPTIONS:**

CONTACT FORM OPTIONS (SEE SCHEMATIC, SHEET 4)	COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
	3 = 28 Vdc - BUS WIRE LEADS 5 = 120 Vdc - BUS WIRE LEADS	3 = SOLDER CONNECTIONS	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 MILL IMETERS)

TOLERANCES EXCEPT AS NOTED

 $.xx = \pm .03$   $.xxx = \pm .010$   $\cancel{x} \quad x^{\circ} = \pm 2^{\circ}$ 

DO NOT SCALE DWG.

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# AP10P SERIES

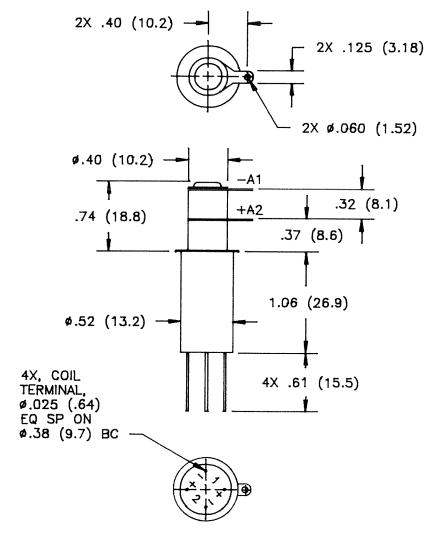
cage code 18741 SCALE

1:1

3X Ø.141 (3.58) EQ SP ON

ø.875 (22.23) BC

SHEET



WEIGHT, MAX (oz): 1.00

### **AVAILABLE OPTIONS:**

CONTACT FORM OPTIONS (SEE SCHEMATIC, SHEET 4)	COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
	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 MILL IMETERS)

TOLERANCES EXCEPT AS NOTED

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

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# AP10P SERIES

1:1

CAGE CODE 18741

SCALE

SHEET