

**Application notes:**

101  
102  
103E  
007

• Polarized, magnetic latching hermetically sealed relay

• Contact arrangement **1 PST/NO (DM) / 75 AMP**

• Coil supply **Direct current**

• Qualified to **MIL-PRF-6106**

• Available in SPACE and Hi-REL quality

### PRINCIPAL TECHNICAL CHARACTERISTICS

• Contacts rated at **75Amps / 28 Vdc**

• Weight **.20 lbs. MAX**

• Dimensions of case **1.120 x 1.025 x 1.025 MAX**

• **Balanced-force design, all welded construction**

• **Hermetically sealed, corrosion protected metal can**

• **No make before break**

• **Specific models available upon request**

### CONTACT ELECTRICAL CHARACTERISTICS / CONTACT RATING

Minimum operating cycles	Type of load	28 Vdc
20,000 cycles	Resistive load	75A
10,000 cycles	Inductive load	20A
20,000 cycles	Motor load	20A
10,000 cycles	Lamp load	10A
50 cycles	Resistive overload	200A

### COIL CHARACTERISTICS (Vdc)

CODE	A	B	C	M	N	R	V
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage at +125°C	29	14.5	7.3	50	29	14.5	7.3
Maximum pickup voltage (Cold coil)							
- Cold coil at +125° C	18	9	4.5	36	18	9	4.5
- During high temp test at +125° C	19.8	9.9	5	38	19.8	9.9	5
- During continuous current test at +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Coil resistance $\Omega \pm 10\%$ +25° C except types "C" and "V"+20%, -10%	450	112	28	1500	450	112	28

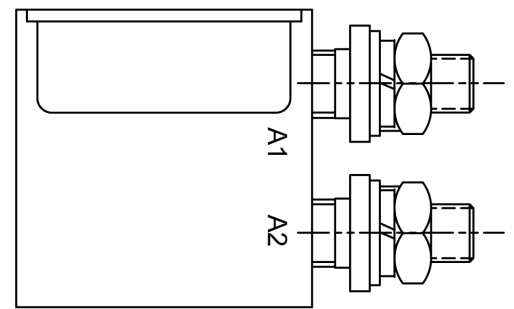
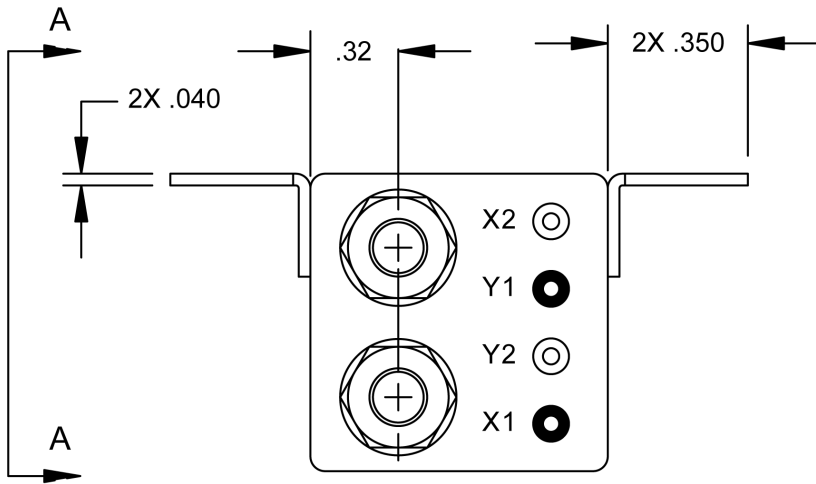
### GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Dielectric strength at sea level all points	
- All circuits to ground and circuit to circuit	1250 Vrms / 50 Hz
- Coil to ground	1000 Vrms / 50 Hz
Dielectric strength at altitude 25.000 m (all points)	500 Vrms / 50Hz (500 Vrms gasket compressed)
Insulation resistance	
- Initial (500 Vdc)	100 M $\Omega$ min
- After environmental tests (500 Vdc)	50 M $\Omega$ min
Sinusoidal vibration (A and D mounting)	0.12" DA / 10 to 57 Hz 20G / 57 to 2000 Hz
Random vibration according to MIL-STD 202 methode 214	1E (0.2G2/Hz, 50 to 2000 Hz)
Mechanical shock (A & D mounting)	50G / 11 ms
Maximum contact opening time under vibration and shock	10 $\mu$ sec
Operate time at nominal voltage	15 ms max
Release time at nominal voltage	15ms max
Contact make bounce at nominal voltage	1ms max
Contact release break bounce	0.5 ms max
- auxiliary contacts@25°C	4 ms max

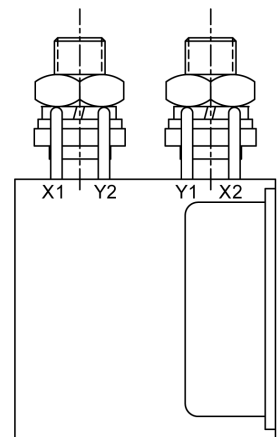
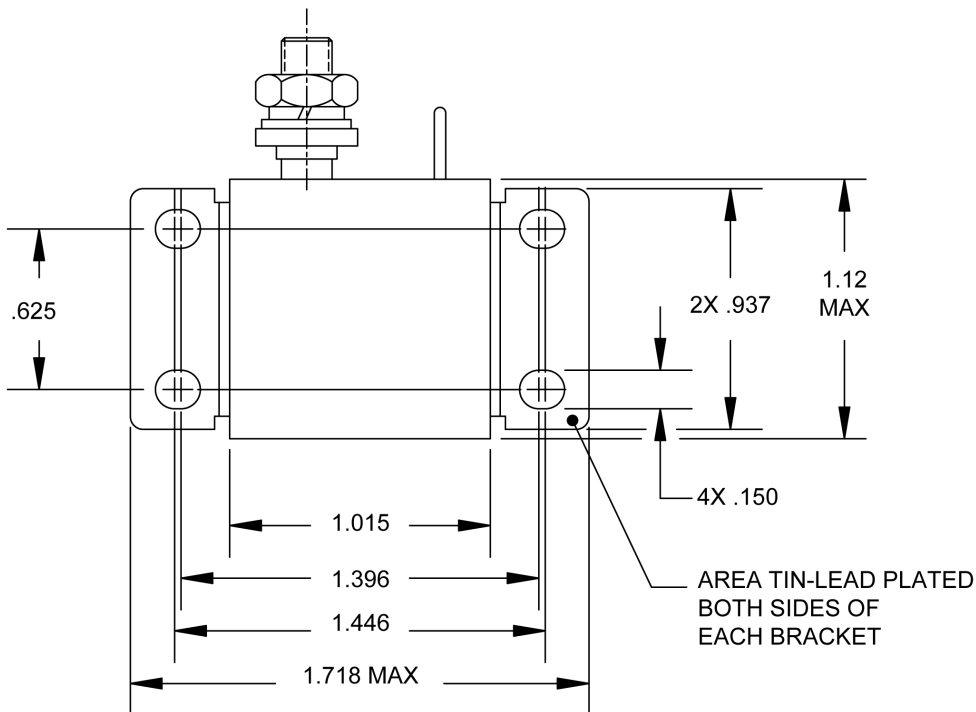
Dimensions in inch  
 Tolerances, unless otherwise specified  
 XXX ± 0.10 in  
 XX ± 0.03 in

## MOUNTING STYLES

# MOUNTING STYLE X



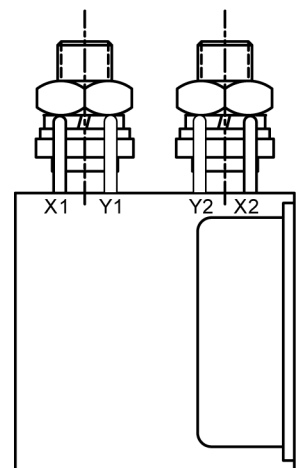
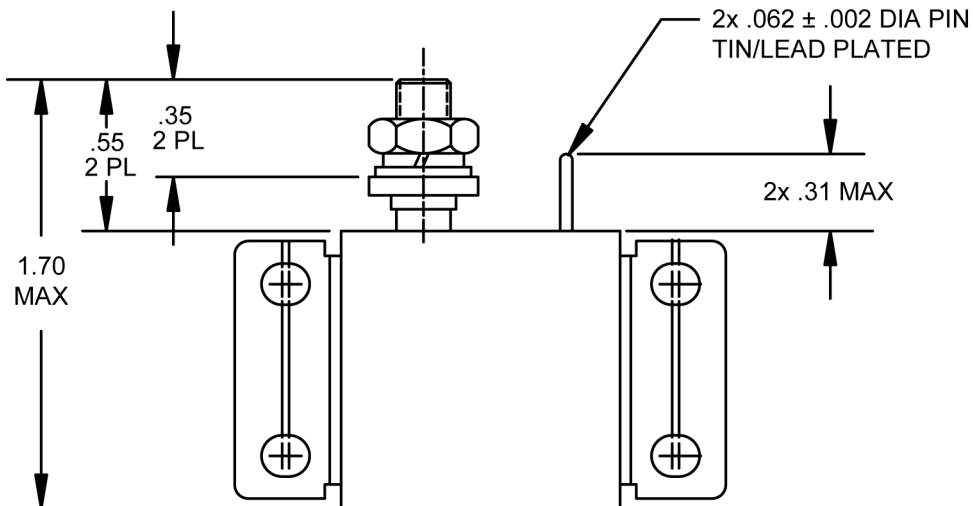
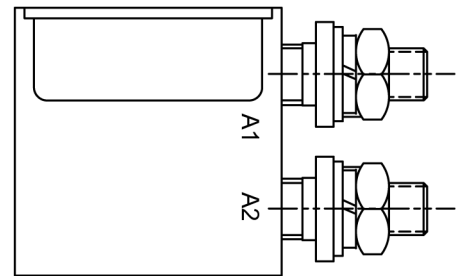
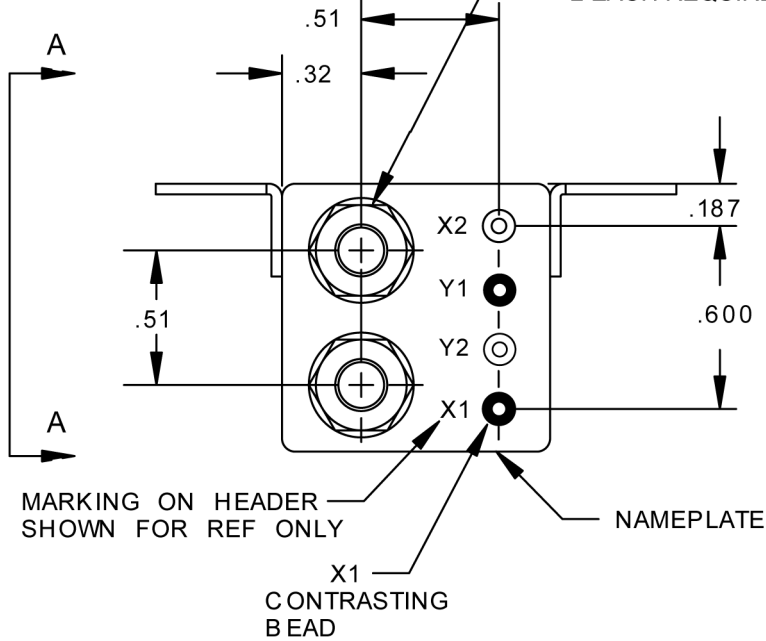
VIEW A - A



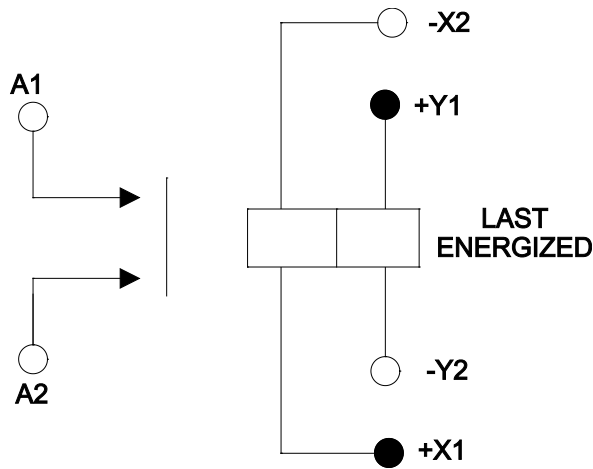
## TERMINAL TYPES

### TERMINAL TYPE 9

.164-32 UNC-2A STUD  
 MS35338 - 42 LOCK WASHER  
 AN961 - 8T FLAT WASER  
 MS35649 - 286T NUT, HEX  
 2 EACH REQUIRED



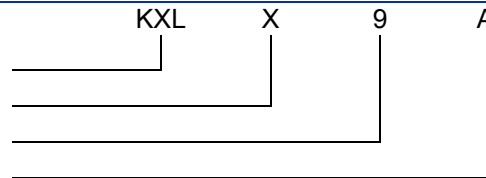
### SCHEMATIC DIAGRAM



### NUMBERING SYSTEM

Basic series designation

1. Mounting styles
2. Terminal types
3. Coil voltage



Example : KXL-X9A

### NOTES

1. For other mounting styles or terminal types, please contact the factory
2. Qualification and quality levels : Contact the factory
3. Coil time constant L/R : 11ms
4. Relay will not be damaged by applying reverse voltage to the coil although the relay may transfer.
5. For full rated load, max temp and altitude use no. 6 wire or larger.
6. "N" R & V coils have back EMF suppression to - 42 volts maximum.w