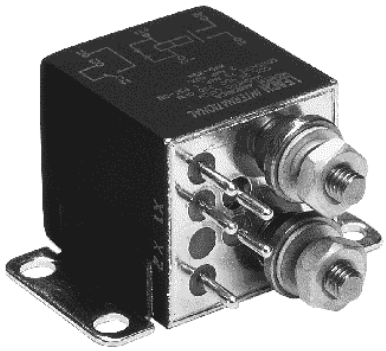
LEACH®

KXD
RELAY NONLATCH
1 PST/NO (DM) + AUX / 75 AMP



- **Polarized, nonlatching hermetically sealed relay**

• **Contact arrangement**	**1 PST/NO (DM) +Aux/ 75 AMP**
• **Coil supply**	**Direct current**
• **NOT qualified but designed to the standards and requirements of:**	**MIL-PRF-6106**

- **Available in SPACE and Hi-REL quality**

PRINCIPAL TECHNICAL CHARACTERISTICS

• **Contacts rated at**	**75Amps / 28 Vdc**
• **Weight**	.22 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**

Application notes:
101
102
103E
007

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
Contact rating per load type, auxiliary contact	**28 Vcc**	**115 Vca – 400 Hz**
Resistive	2A	2A
Inductive (L/R=5ms)	1A	1A
Lamp	0.5A	0.5A

COIL CHARACTERISTICS (Vdc)

CODE	A	B	C	M	N[5]	R[5]	V[5]
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	20	9	4.5	36	20	9	4.5
- During high temp test at +125° C	22.5	9.9	5	38	22.5	9.9	5
- During continuous current test at +125° C	25	11.25	5.7	42	25	11.25	5.7
- Drop-out voltage (Maximum)	7	4.5	2.5	14	7	4.5	2.5
Coil resistance Ω ±10% +25° C except types "C" and "V"+20%, -10%	290	70	18	890	290	70	18

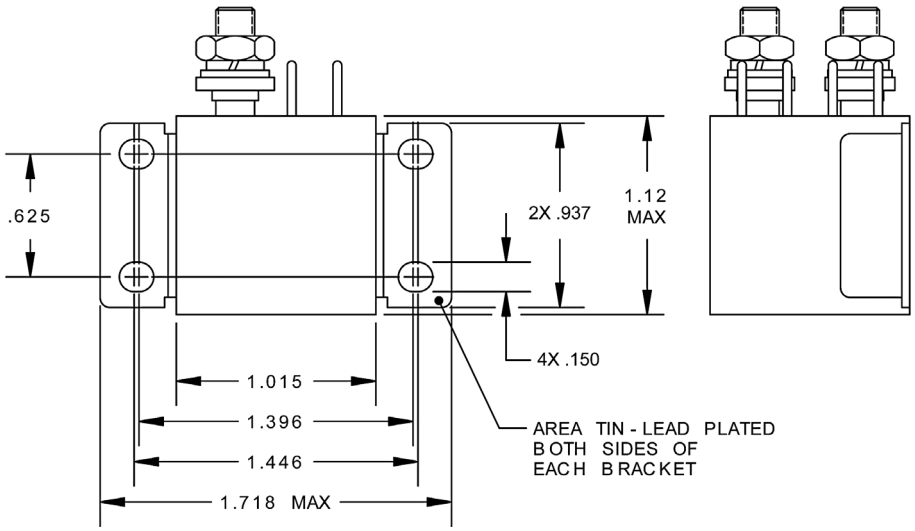
GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load (Resistive & Motor Load)	20,000 cycles
Minimum operating cycles (life) at no load (Mechanical life)	100,000 cycles
Dielectric strength at sea level all points	
- All circuits to ground and circuit to circuit	1250 Vrms / 50 Hz
- Coil to ground and coil auxilary contact gap	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 Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration	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	50G / 11 ms
Maximum contact opening time under vibration and shock	10 µ sec Mains and 1 ms - Auxiliaries
Operate time at nominal voltage	15 ms max
Release time at nominal voltage	15ms max
Contact make bounce at nominal voltage - Power contacts - Auxilary contacts	 1ms max 4ms max
Contact release break bounce	0.5 ms max

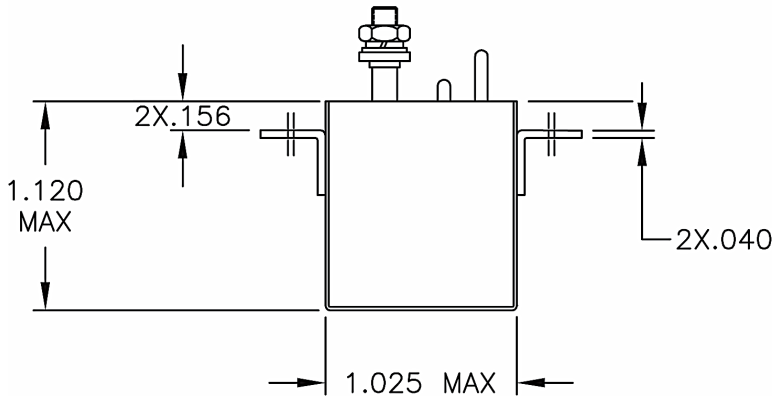
Dimensions in inch
Tolerances, unless otherwise specified, ±0.1inch

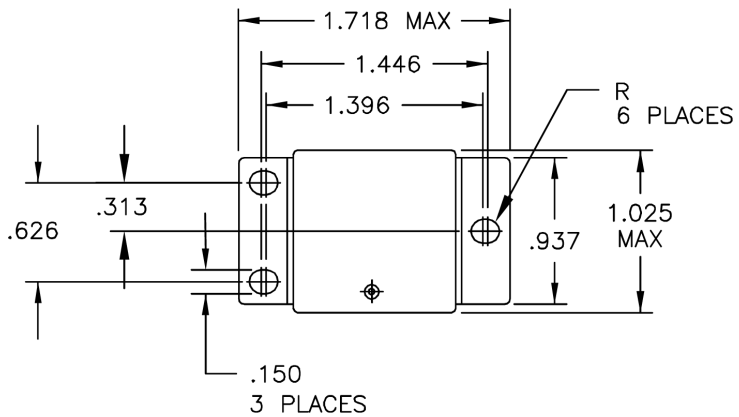
MOUNTING STYLES

MOUNTING STYLE X



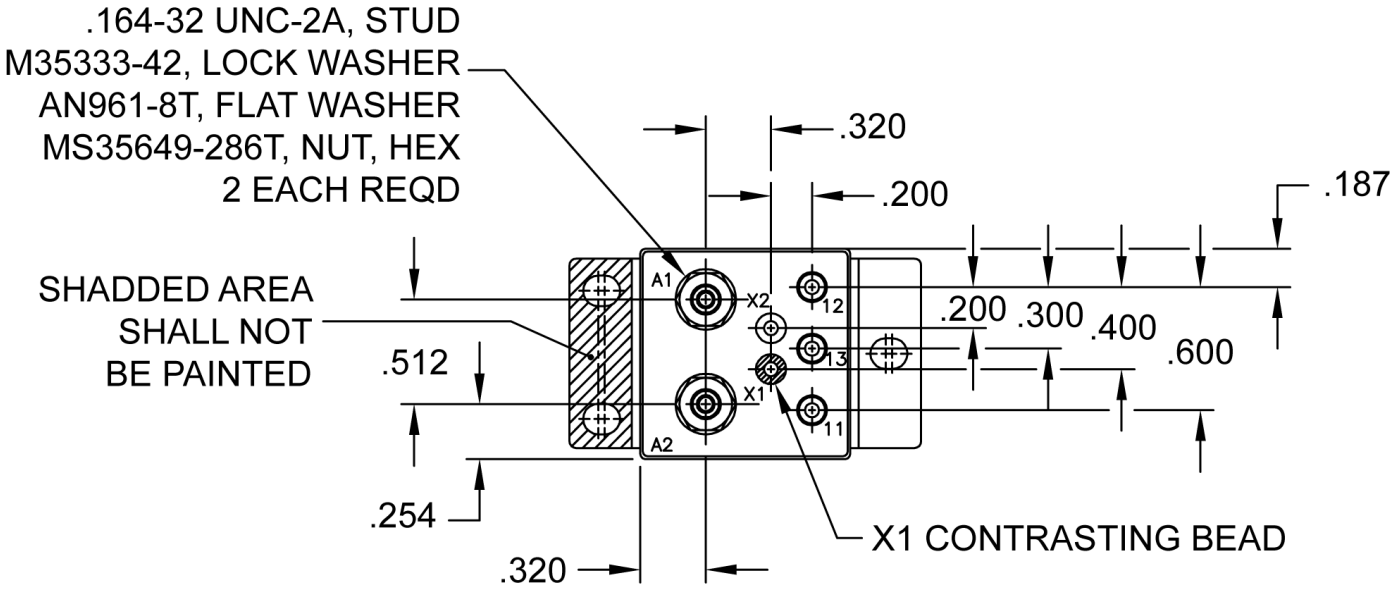
MOUNTING STYLE D

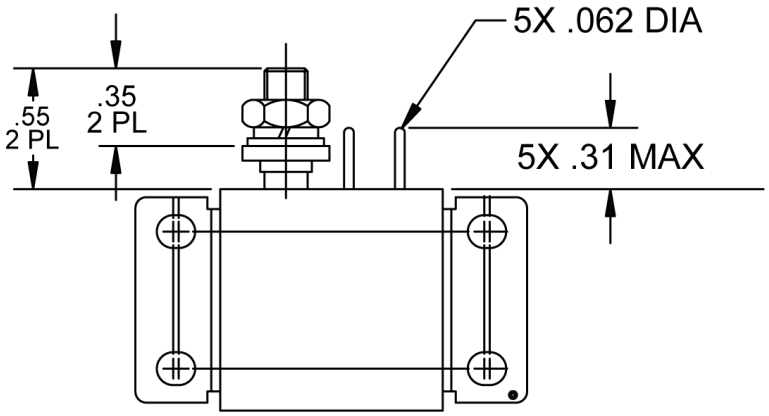




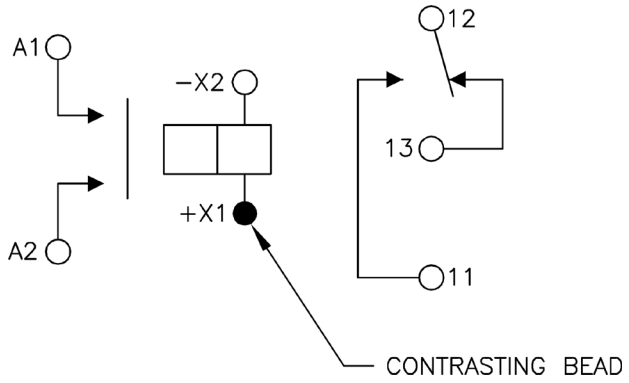
TERMINAL TYPES

TERMINAL TYPE 9

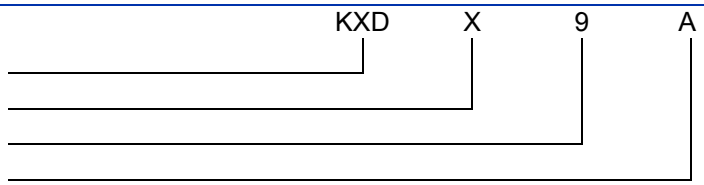




CIRCUIT DIAGRAM



NUMBERING SYSTEM



Basic series designation

1. **Mounting styles** *(Conact factory)*
2. **Terminal types** (9)
3. **Coil voltage** (A, B, C, M, N, R, or V)

Example : KXD-X9A

NOTES

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