



**Applicable sockets:**  
SO-1065-10392/10393

**Application Notes:**  
102  
007

• All welded construction

• Contact arrangement 3 PDT

• Meets the standards and requirements of MIL-PRF-83536

## PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at	Low level, 28 Vdc and 115/200 Vac 400Hz, 3Ø, case grounded
• Weight	0.066 lb max
• Dimensions	0.81 in x 0.81 in x 0.64 in
• Special models available upon request	
• Hermetically sealed, corrosion resistant metal can	

## CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps		
	28 Vdc	115 Vac, 400 Hz, 1Ø	115/200 Vac, 400 Hz, 3Ø
Resistive	10	10	10
Inductive [2]	6	8	8
Motor	4	4	4
Lamp	2	2	-
Overload	30	60	60
Rupture	40	80	80
Low level [3]	-	-	-
Time current characteristics [4]	-	-	-

## COIL CHARACTERISTICS (Vdc)

CODE	Vac 400 Hz	Vac 50 thru 400 Hz
	F	K
Nominal operating voltage	115	115
Maximum operating voltage	122	122
<b>- Cold coil at +85° C</b>		
- During high temp test at +85° C	90	95
- During continuous current test at +85° C	95.4	100
Maximum drop-out voltage	103.5	105
Coil current maximum milliAmperes at +25° C	30	30
	40	28

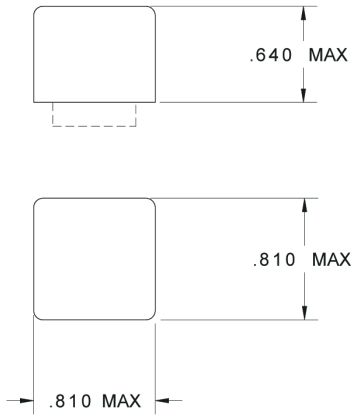
## GENERAL CHARACTERISTICS

Temperature range	-70°C to + 85°C
Minimum operating cycles (life) at rated load	50,000 [2]
Minimum operating cycles (life) at 25% rated load	200,000
<b>Dielectric strength at sea level</b>	
- All circuits to ground and circuit to circuit	1,250 Vrms
- Coil to ground	1,000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
<b>Insulation resistance</b>	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A and D mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (G and J mounting)	0.12 d.a. / 10 to 57 Hz 20G / 57 to 3000 Hz
<b>Random vibration</b>	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition - A and D mounting	1G (0.4G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Test condition - E, J and G mounting (E in track)	1E (0.2G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A and D mounting)	200G / 6 ms
Shock (G and J mounting)	100G / 6 ms
Maximum contact opening time under vibration and shock	10 μs
Operate time at nominal voltage @ 25°C	15 ms max
Release time at nominal voltage @ 25°C	25 ms max
Contact make bounce at nominal voltage @ 25°C	1 ms max
Contact release break bounce at nominal voltage @ 25°C	0.1 ms max

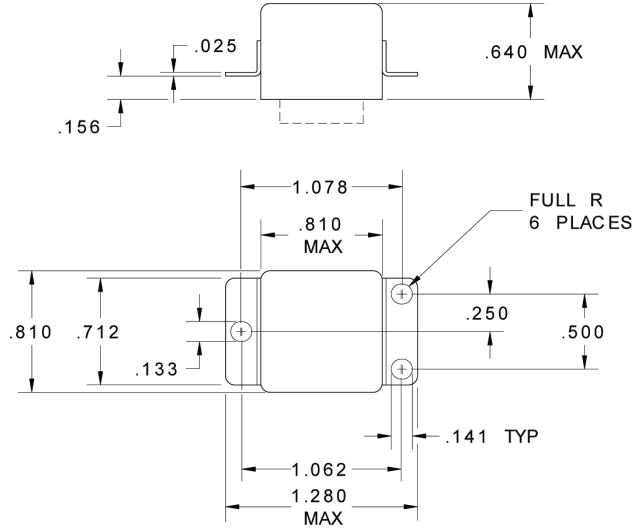
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

## MOUNTING STYLES

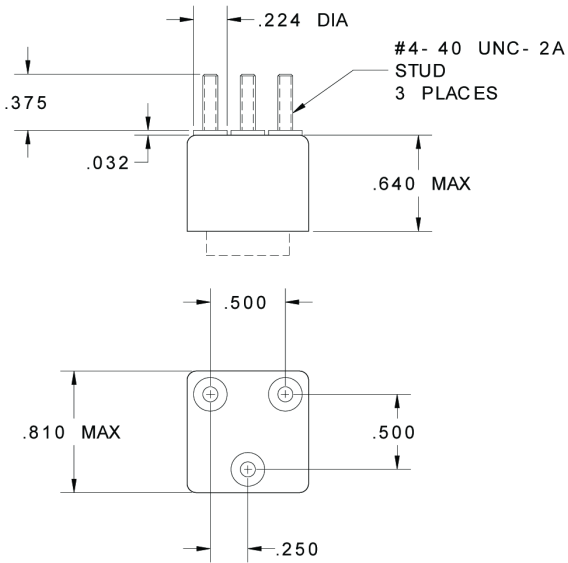
Dimensions in inches  
Tolerances, unless otherwise specified  
.XX ± 0.03 in  
.XXX ± 0.10 in



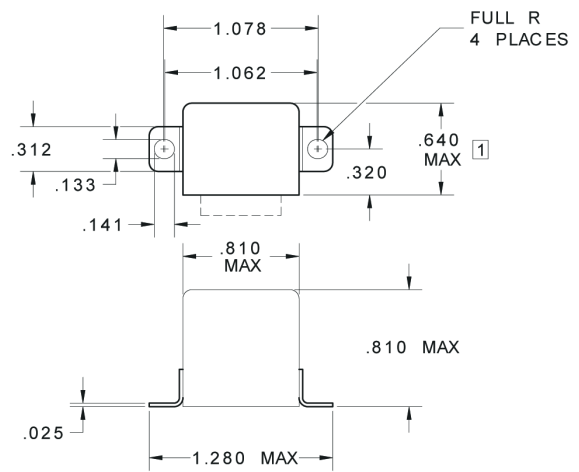
MOUNTING STYLE A



MOUNTING STYLE D



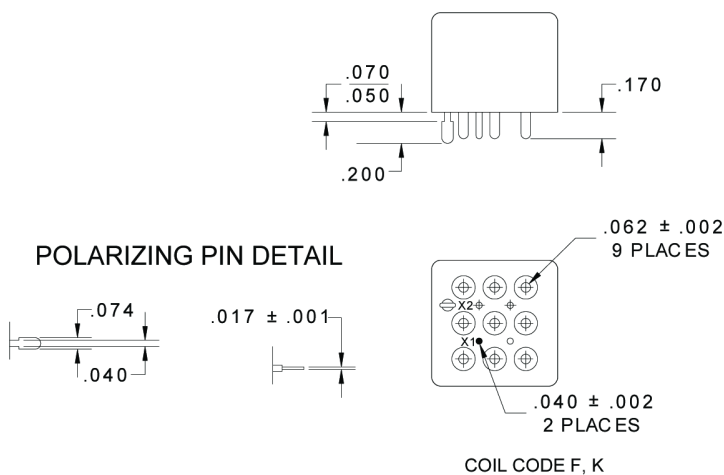
MOUNTING STYLE G



MOUNTING STYLE J

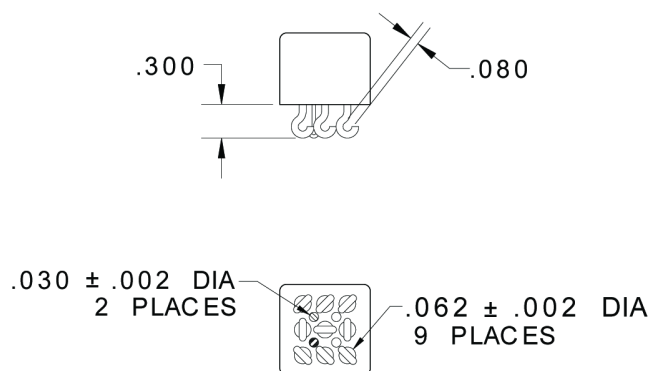
1 RELAY HEIGHT MAY BE INCREASED .100 INCH FOR "N" SUPPRESSED COILS

## TERMINAL TYPES



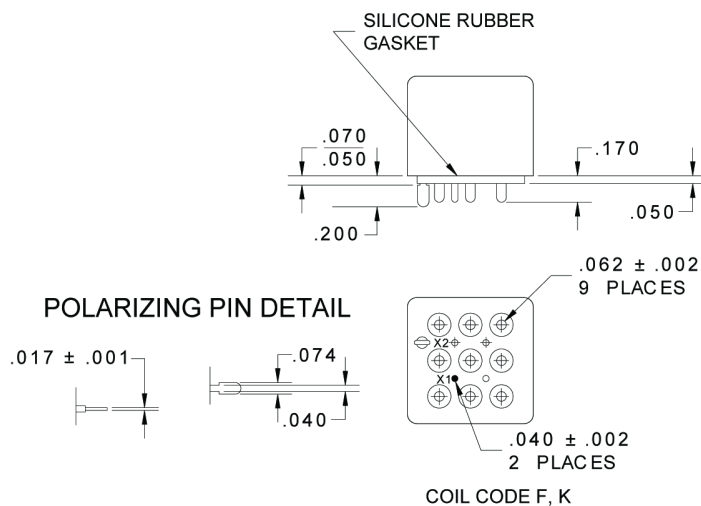
### TERMINAL TYPE 1

FINISH:  
BODY - LEACH BLUE  
TERMINALS - TIN / LEAD



### TERMINAL TYPE 2

FINISH:  
BODY - LEACH BLUE  
TERMINALS - TIN / LEAD

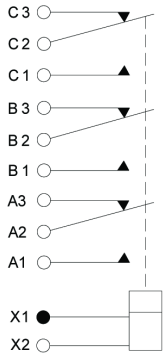


### TERMINAL TYPE 4

FINISH:  
BODY - LEACH BLUE  
TERMINALS - GOLD PLATED

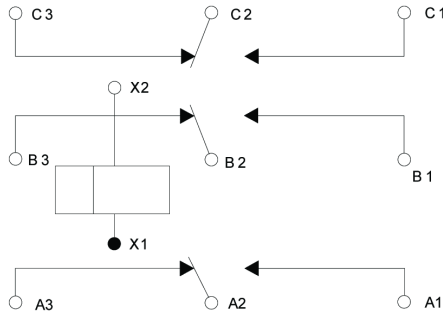
## DIAGRAM(S)

### SCHEMATIC DIAGRAM

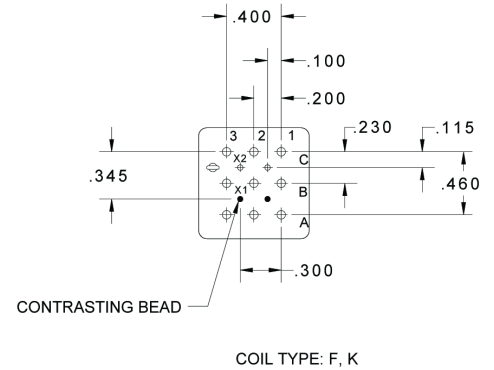


### WIRING DIAGRAM

COIL POLARITY NOT APPLICABLE

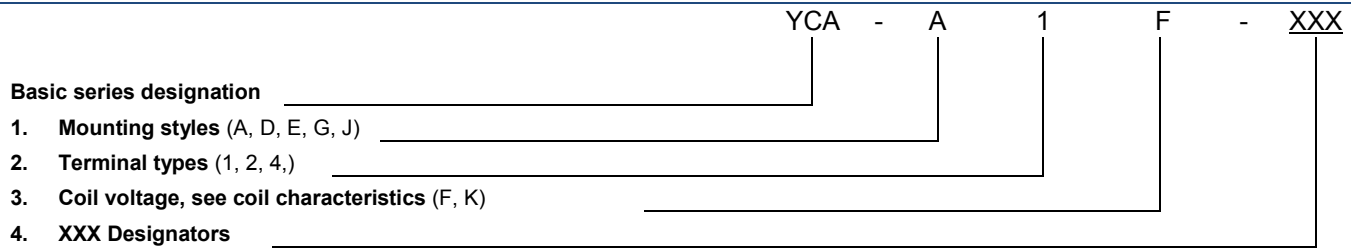


### STANDARD TERMINAL LAYOUT



TOL: .XX ±.03; .XXX ±.010

## NUMBERING SYSTEM



## NOTES

1. Standard Intermediate current test applicable, relay can also switch low level load while switching any of the other rated loads on adjacent contacts.
2. Inductive load life, 10,000 cycles.
3. Low level endurance test: contact load of 10 to 50 millivolt, 10 to 50 microamp, 100 Ohm max. contact resistance.
4. Refer to MIL-PRF-83536 for details.
5. 500 V with silicone gasket compressed, 250 V all other conditions.

For any inquiries, please contact your local sales representative: [leachcorp.com](http://leachcorp.com)