

- Magnetic latch operation

- All welded construction

- Contact arrangement **3 PDT**

- Qualified or in accordance with **MIL-PRF-6106**

PRINCIPAL TECHNICAL CHARACTERISTICS

- Contacts rated at **Low level, 28 Vdc and 115/200 Vac, 400 Hz, 3Ø, case grounded**

- Weight **0.068 lb max**

- Dimensions **.81in x .81in x .64in**

- Hermetically sealed, corrosion protected metal can

- Special models available upon request

Application notes:

101
102
103B
007
023

Applicable sockets:

SO-1065-003

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	10A	10A	10A
Inductive [2]	6A	8A	8A
Motor	4A	4A	4A
Lamp	2A	2A	1A
Overload	30A	60A	60A
Rupture	40A	80A	80A
Low level [3]	-	-	-
Time current characteristics [4]	-	-	-

COIL CHARACTERISTICS (Vdc)

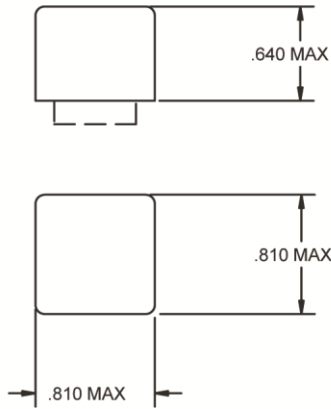
CODE	A	B	C	N [5]	R [5]	V [5]
Nominal operating voltage	28	12	6	28	12	6
Maximum operating voltage at +125°C	29	14.5	7.3	29	14.5	7.3
Maximum pickup voltage (Cold coil)						
- Cold coil at +125° C	18	9	4.5	18	9	4.5
- During high temp test at +125° C	19.8	9.9	5	19.8	9.9	5
- During continuous current test at +125° C	22.5	11.25	5.7	22.5	11.25	5.7
Coil resistance $\Omega \pm 10\%$ + 25° C except types "C" and "V" + 20%, -10%	600	148	37	600	148	37

GENERAL CHARACTERISTICS

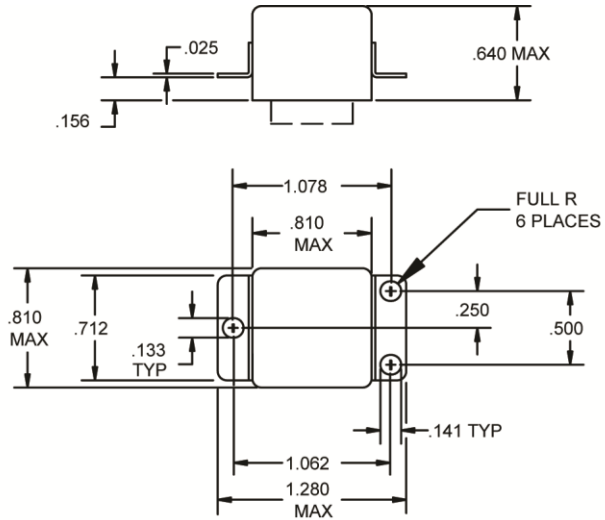
Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	50,000 [2]
Minimum operating cycles (life) at 25% rated load	200,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground, coil to coil	500 Vrms
Dielectric strength at altitude 80,000 ft	350 Vrms [6]
Insulation resistance	
- 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
Random vibration	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition - A and D mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)
- Test condition - G and J mounting	1E (0.2G ² /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 μ s
Operate time at nominal voltage@25°C	6 ms max
Reset time at nominal voltage@25°C	6 ms max
Contact make bounce at nominal voltage@25°C	1 ms max

MOUNTING STYLES

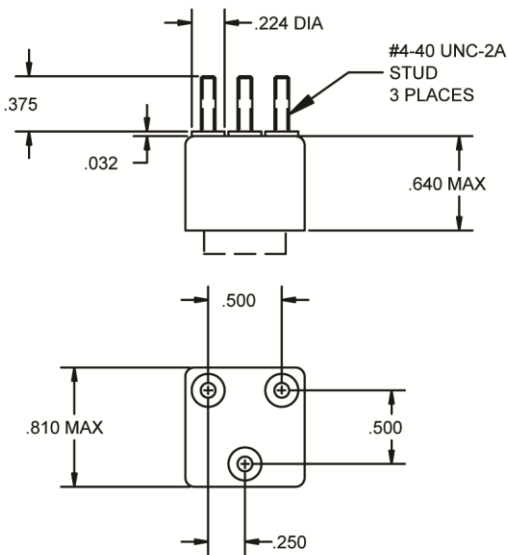
Dimensions in inch
Tolerances, unless otherwise specified, ± 0.1 inch



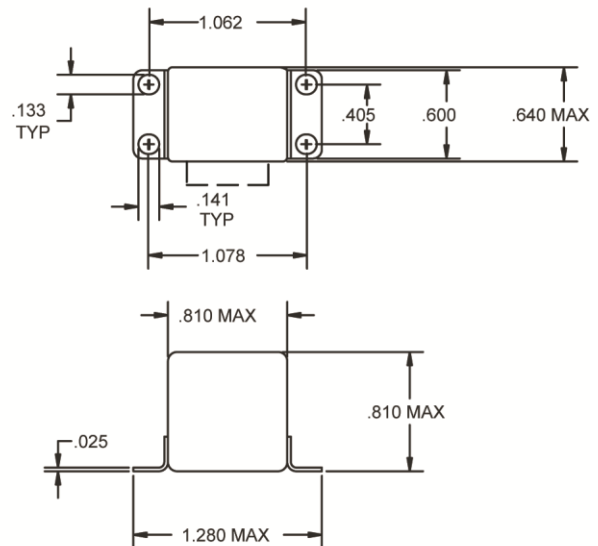
MOUNTING STYLE A



MOUNTING STYLE D

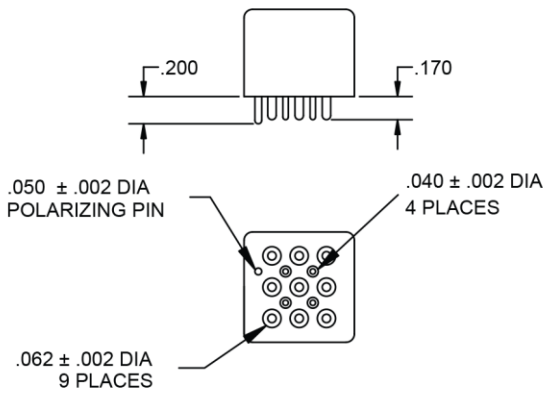


MOUNTING STYLE G



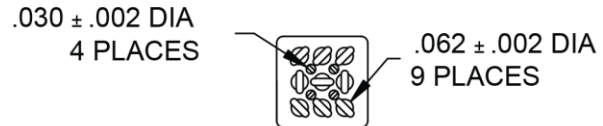
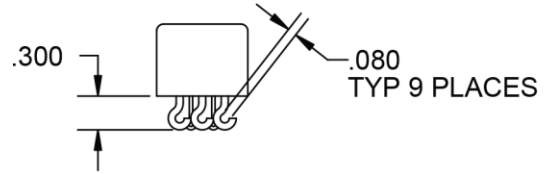
MOUNTING STYLE J

TERMINAL TYPES



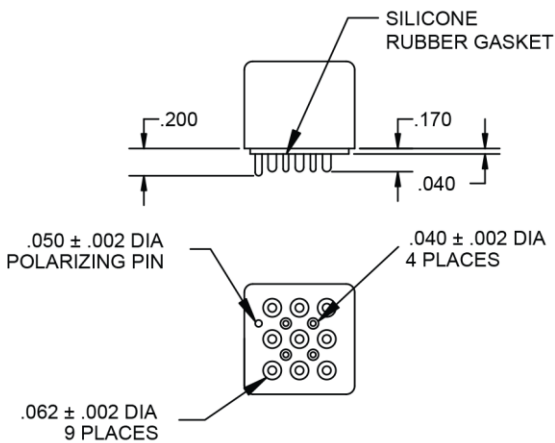
TERMINAL TYPE 1

FINISH:
BODY-LEACH BLUE
TERMINALS-TIN/LEAD



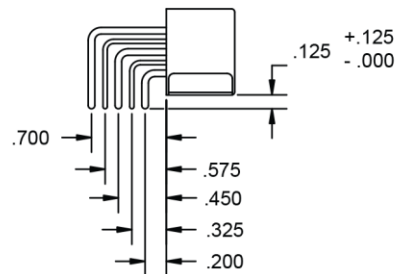
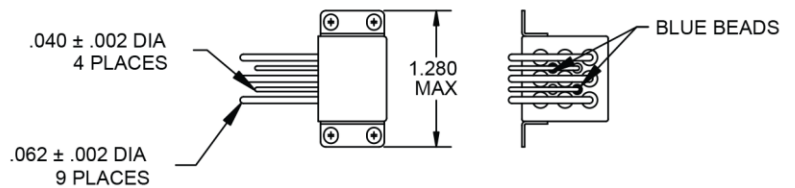
TERMINAL TYPE 2

FINISH:
BODY-LEACH BLUE
TERMINALS-TIN/LEAD



TERMINAL TYPE 4

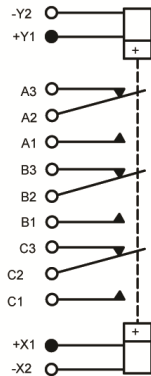
FINISH:
BODY-LEACH BLUE
TERMINALS-GOLD PLATED
POLARIZING PIN-TIN/LEAD



TERMINAL TYPE 7

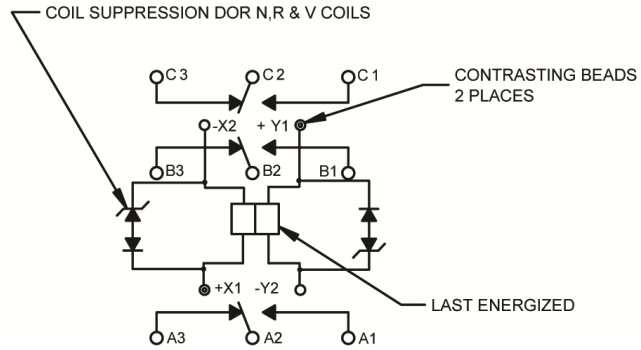
FINISH:
BODY-LEACH BLUE
TERMINALS-TIN/LEAD

SCHEMATIC DIAGRAM

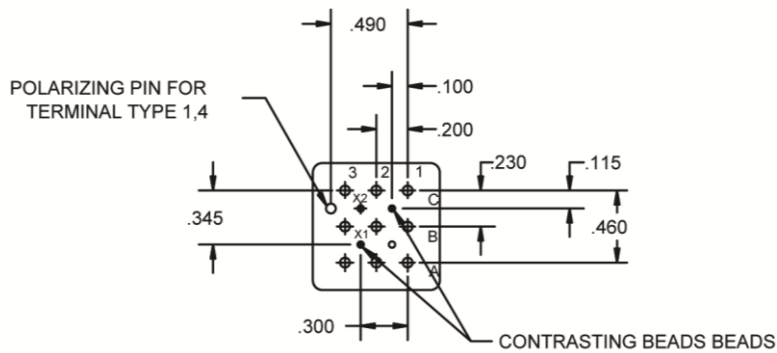


WIRING DIAGRAM

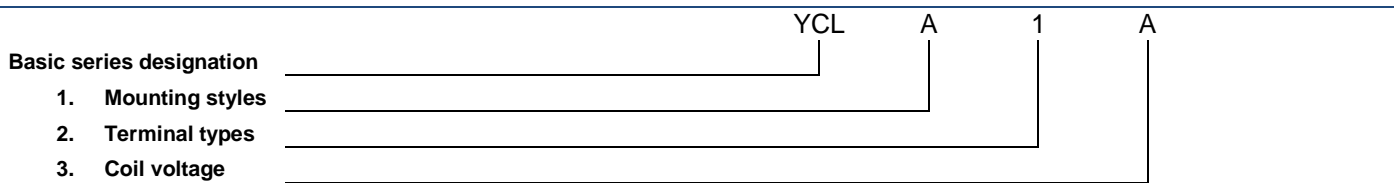
FINISH:
BODY-LEACH BLUE
TERMINALS-TIN PLATE



STANDARD TERMINAL LAYOUT



NUMBERING SYSTEM



NOTES

- Standard Intermediate current test applicable. Relay can also switch low level load while switching any of the other rated loads on adjacent contacts.
- Inductive load life, 10,000 cycles.
- Low level endurance test: contact load of 10 to 50 millivolt, 10 to 50 microamp, 100 Ohm max. contact resistance.
- Refer to MIL-PRF-83536 for details.
- "N," "R" & "V" coils have back EMF suppression to 42 volts maximum.
- 350 Vrms with silicone gasket compressed, 250 Vrms coil to ground, coil to coil.
- Suppressed coils limited to +85° C.
- Relay will not be damaged, but may transfer with the application of reversed polarity to the coils.
- Reference MIL-PRF-83536.

For any inquiries, please contact your local sales representative: leachcorp.com