



Applicable sockets:
SO-1066-10385/10386

Application Notes:
102
007

• All welded construction

• Contact arrangement 4 PDT

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

PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at	Low level, 28 Vdc and 115/200 Vac, 400 Hz, 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	5	5	5
Inductive [2]	3	5	5
Motor	2	3	3
Lamp	1	1	-
Overload	20	30	30
Rupture	25	40	40
Low level [3]	-	-	-
Time current characteristics [4]	-	-	-

COIL CHARACTERISTICS (Vdc)

CODE	Vac 400 Hz	Vac 50 thru 400 Hz	
	F	J	K
Nominal operating voltage	115	28	115
Maximum operating voltage	122	30	122
Maximum pickup voltage			
- Cold coil at +85° C	90	23	95
- During high temp test at +85° C	95.4	24.6	100
- During continuous current test at +85° C	103.5	25.9	105
Maximum drop-out voltage	30	10	30
Coil current maximum milliAmperes at +25° C	40	120	28

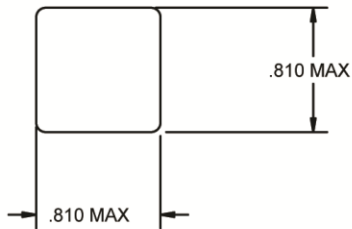
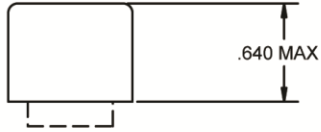
GENERAL CHARACTERISTICS

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
Dielectric strength at sea level - All circuits to ground and circuit to circuit	1050 Vrms
Dielectric strength at sea level - Coil to ground	1050 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
Insulation resistance - Initial (500 Vdc)	100 M Ω min
Insulation resistance - 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 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	0.5 ms max

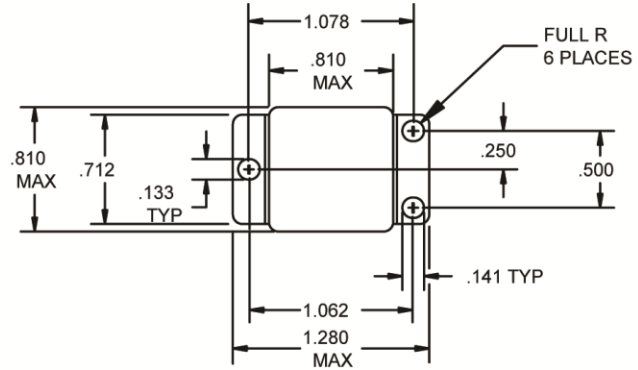
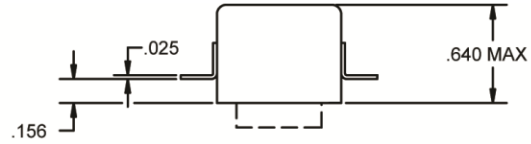
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

Dimensions in inches
Tolerances, unless otherwise specified, XX ± 0.03 in., XXX ± 0.010

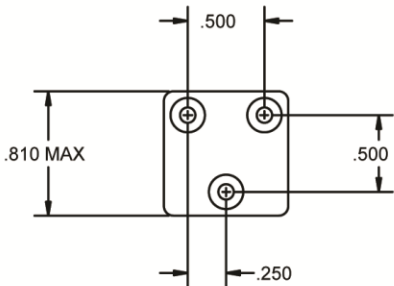
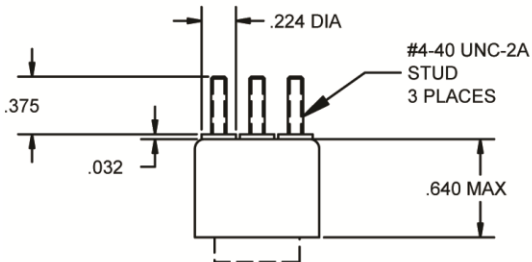
MOUNTING STYLES



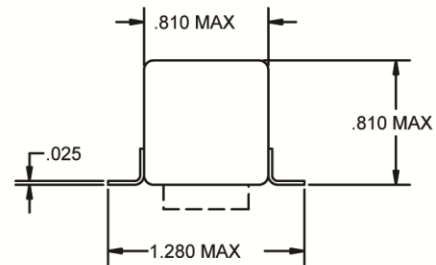
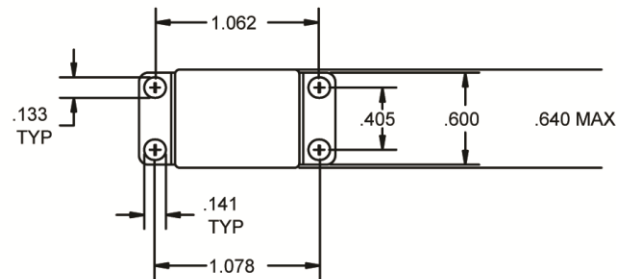
MOUNTING STYLE A



MOUNTING STYLE D



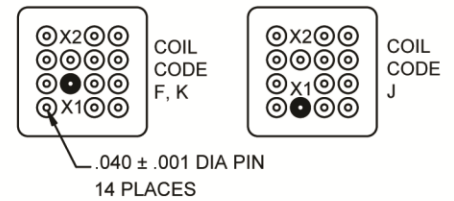
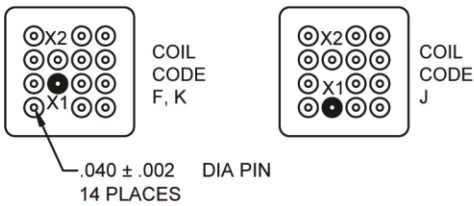
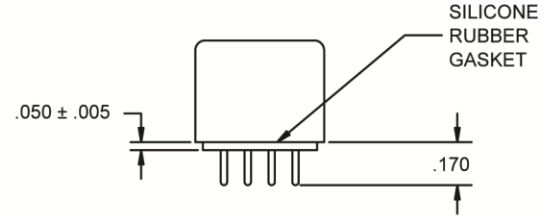
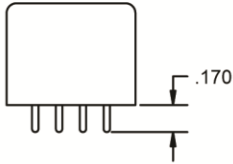
MOUNTING STYLE G



MOUNTING STYLE J

Dimensions in inches
Tolerances, unless otherwise specified, XX ± 0.03 in., XXX ± 0.010

TERMINAL TYPES

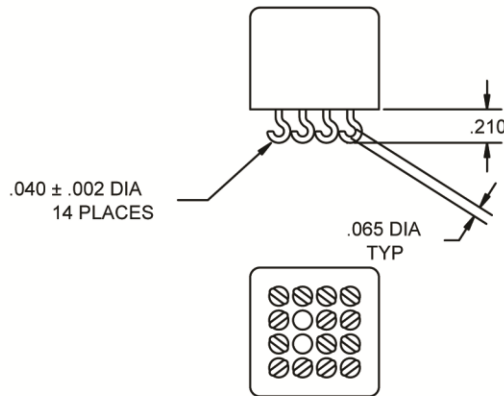


TERMINAL TYPE 1

FINISH:
BODY-TIN/LEAD
TERMINALS-TIN/LEAD

TERMINAL TYPE 4

FINISH:
BODY-TIN/LEAD
TERMINALS-GOLD PLATED



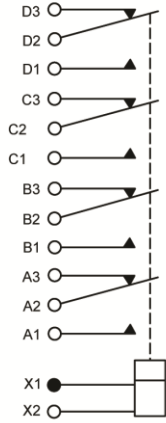
TERMINAL TYPE 2

FINISH:
BODY-TIN/LEAD
TERMINALS-TIN/LEAD

Dimensions in inches
Tolerances, unless otherwise specified, XX ± 0.03 in., XXX ± 0.010

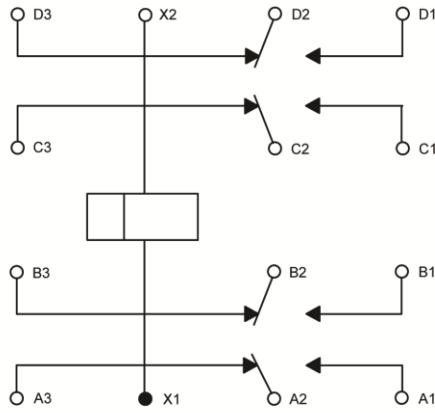
DIAGRAMS

SCHEMATIC DIAGRAM

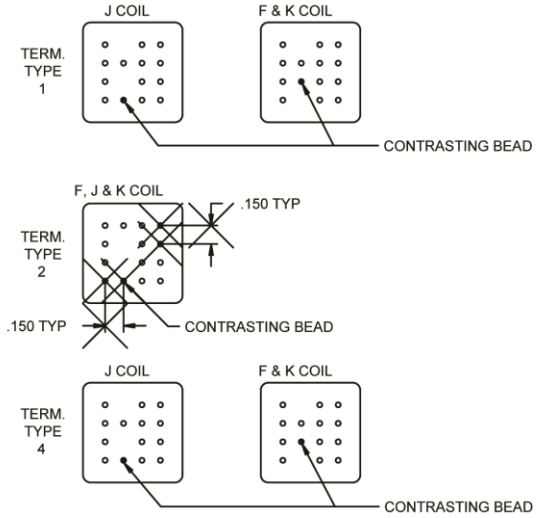


WIRING DIAGRAM

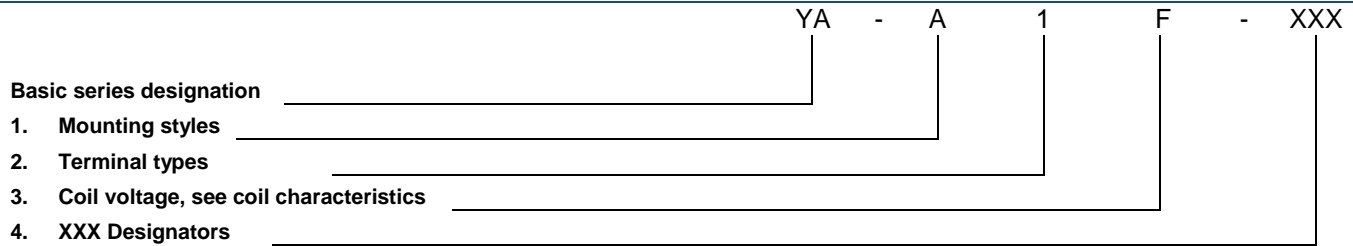
COIL POLARITY NOT APPLICABLE



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.
- 500 Vrms with silicone rubber gasket compressed, 250 Vrms all other conditions.

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