



**Applicable sockets:**  
SO-1062-8917  
SO-1057-8912 (D-MOUNT)

**Application Notes:**  
102  
007

- All welded construction
- Contact arrangement 3 PDT
- Designed to the performance standards of MIL-PRF-6106

## PRINCIPLE TECHNICAL CHARACTERISTICS

- Contacts rated at 28 Vdc; 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz, 3Ø
- Weight 0.188 lb max
- Dimensions 1.01in x 1.01in x 1.00in
- Hermetically sealed, corrosion resistant metal can. Detail specifications and ordering data appear on the following pages.

## CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps				
	@28 Vdc	@115 Vac 400 Hz	@115/200 Vac, 400 Hz, 3Ø	@115/200 Vac 60 Hz, 3Ø [7]	@230/400 Vac 400 Hz, 3Ø [8]
Resistive [2]	25	25	25	2.5	5
Inductive [3]	12	15	15	2.5	5
Motor	10	10	10	2	2
Lamp	5	5	5	1	2
Overload	50	80	80	N/A	N/A
Rupture	60	100	100	N/A	N/A

## COIL CHARACTERISTICS (VAC)

CODE	Vac 400 Hz		Vac 50 thru 400 Hz		Vac 400 Hz
	E	F	J	K	T
Nominal operating voltage	28	115	28	115	230
Maximum operating voltage	30	122	30	122	248
Maximum pickup voltage					
- Cold coil at +125° C	22	90	23	95	180
- During high temp test at +125° C	24.4	95.4	24.6	100	185
- During continuous current test at +125° C	25.6	103.5	25.9	105	195
Maximum drop-out voltage	10	30	10	30	60
Coil current maximum milliAmperes at +25° C	225	40	120	28	22

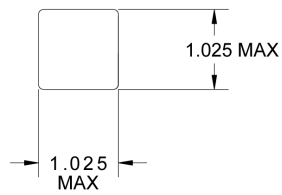
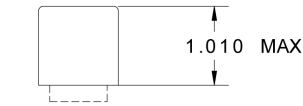
## GENERAL CHARACTERISTICS

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
<b>Dielectric strength at sea level</b>	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [4]
<b>Insulation resistance</b>	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A, D, E and W mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (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, D, E, and W mounting	1G (0.4G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Test condition – J mounting	1E (0.2G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, D, E and W mounting)	200G / 6 ms
Shock (J mounting)	100G / 6 ms
Maximum contact opening time under vibration and shock	10 μs
Operate time at nominal voltage @25°C	20 ms max
Release time at nominal voltage @25°C	50 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
Weight maximum	0.188 lb

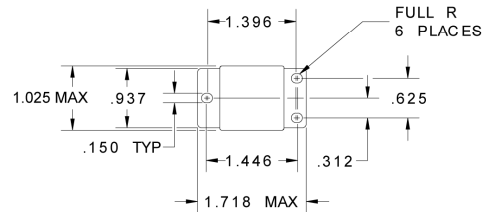
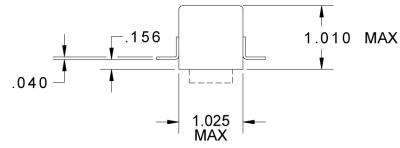
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

Dimensions in inches  
 Tolerances, unless otherwise specified  
 .XXX ± 010  
 .XX ± 03

## MOUNTING STYLES

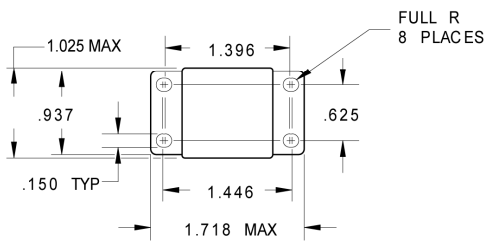
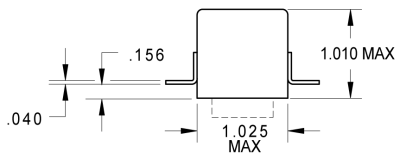


MOUNTING STYLE A

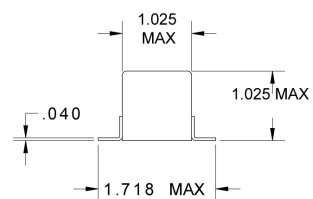
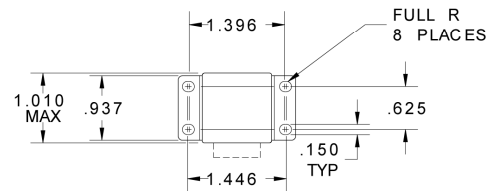


MOUNTING STYLE D

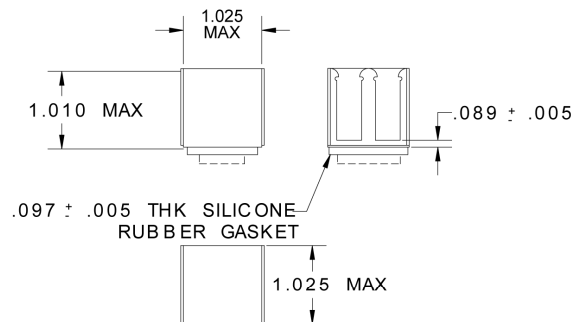
(THIS MOUNT WILL NOT MATE WITH LEACH SOCKET)



MOUNTING STYLE E



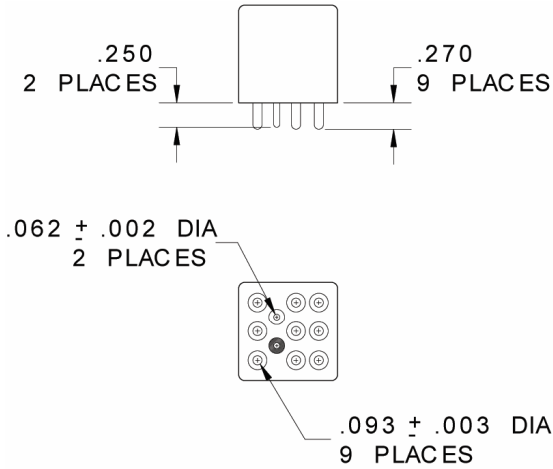
MOUNTING STYLE J



MOUNTING STYLE W

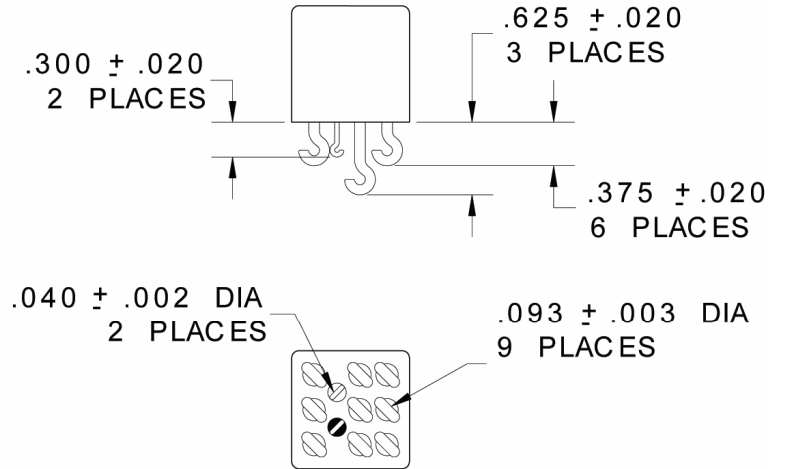
FOR USE WITH TRACK MOUNT SYSTEM. NOTE: TRACK SYSTEM NOT AVAILABLE FROM LEACH

## TERMINAL TYPES



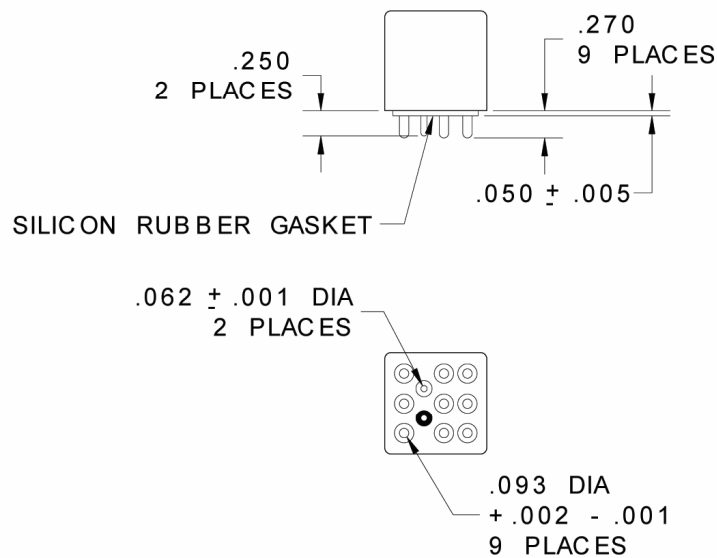
### TERMINAL TYPE 1

FINISH:  
CASE- PAINTED LEACH BLUE  
TERMINALS- TIN/ LEAD



### TERMINAL TYPE 2

FINISH:  
CASE- PAINTED LEACH BLUE  
TERMINALS- TIN/ LEAD

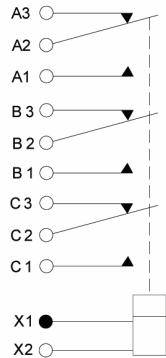


### TERMINAL TYPE 4

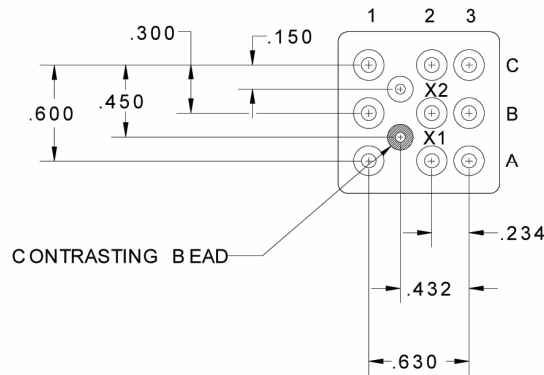
FINISH:  
CASE- PAINTED LEACH BLUE  
PINS- GOLD PLATED

## DIAGRAMS

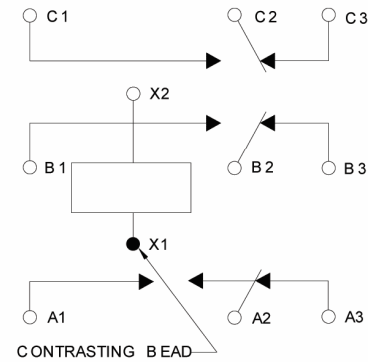
### SCHEMATIC DIAGRAM



### STANDARD TERMINAL LAYOUT

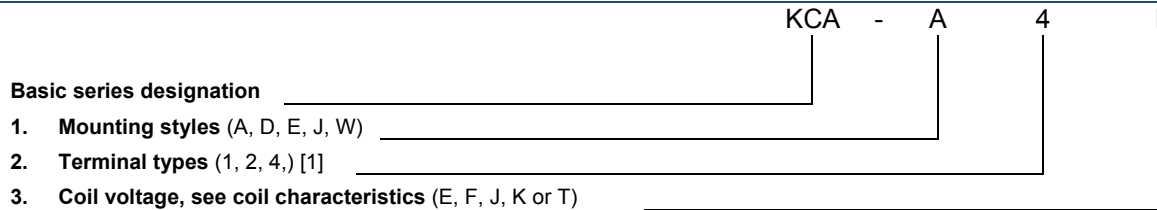


### WIRING DIAGRAM



TOL: .XX ±.03; .XXX ±.010

## NUMBERING SYSTEM



## NOTES

- Standard Intermediate current test applicable
- DC inductive load 10,000 cycles, AC inductive load 20,000 cycles.
- For full rated load, max. temp. and altitude use no. 12 wire or larger.  
Relays to be mounted to limit mounting bracket temp. to 135° C
- 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- Reference military specification: MIL-PRF-6106 and MS27743.
- Special models available upon request.
- 60 Hz load life 10,000 cycles.
- Temperature range: Non- operating -62° C to +95° C  
Operating -54° C to +71° C
- Time current relay characteristics per MIL-PRF-6106.

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