



· Magnetic latch operation

All weld construction

Contact arrangement 3 PDT configuration in one

inch cube

Qualified to
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			

Applicable sockets: SO-1058-8913

Application Notes:

CONTACT ELECTRICAL CHARACTERISTICS

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



COIL CHARACTERISTICS (Vdc)

CODE	Α	В	С	М	N [7]	R [7]	V [7]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage @ +125°C	29	14.5	7.3	59	29	14.5	7.3
Maximum pickup voltage							
- Cold coil @ +125° C	18	9	4.5	24	18	9	4.5
- During high temp test @ +125° C	19.8	9.9	5	34.5	19.8	9.9	5
- During continuous current test @ +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Coil resistance Ω ±10% at +25° C except types "C" & "V" +20%, -10%	450	112	28	1500	450	112	28

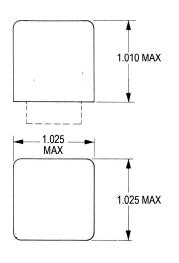
GENERAL CHARACTERISTICS

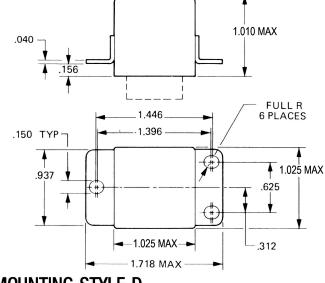
Temperature range	-70°C to +125°C			
Minimum operating cycles (life) at rated load	50,000 [3]			
Minimum operating cycles (life) at 25% rated load	200,000			
Dielectric strength at sea level				
- All circuits to ground and circuit to circuit	1250 Vrms			
- Coil to ground and coil to coil	1000 Vrms			
Dielectric strength at altitude 80,000 ft	500 Vrms [4]			
Insulation resistance				
- Initial (500 Vdc)	100 M Ω min			
- After environmental tests (500 Vdc)	50 M Ω min			
Simpoidal vibration (A and D magneting)	0.12 d.a. / 10 to 70 Hz			
Sinusoidal vibration (A and D mounting)	30G / 70 to 3000 Hz			
Sinusoidal vibration (J mounting)	0.12 d.a. / 10 to 57 Hz			
Sinusoidal Vibration (3 inounting)	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 - J mounting	1E (0.2G ² /Hz, 50 to 2000 Hz)			
- Duration	15 minutes each plane			
Shock (A and D mounting)	200G / 6 ms ±1			
Shock (J mounting)	100G / 6 ms ±1			
Operate time at nominal voltage@25°C	15 ms max			
Release time at nominal voltage@25°C	15 ms max			
Maximum contact opening time under vibration and shock@25°C	10 µs			
Contact make bounce at nominal voltage@25°C	1 ms max			
Weight maximum	0.188 lb			

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



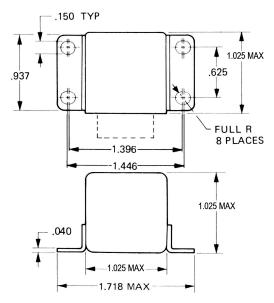
MOUNTING STYLES





MOUNTING STYLE A

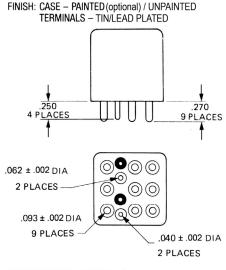
MOUNTING STYLE D



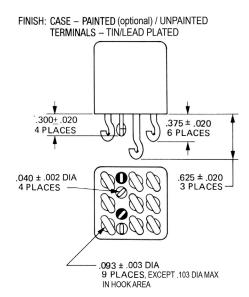
MOUNTING STYLE J



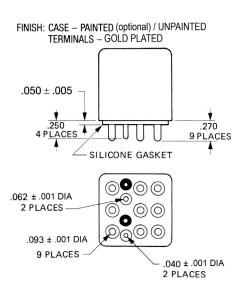
TERMINAL TYPES



TERMINAL TYPE 1



TERMINAL TYPE 2



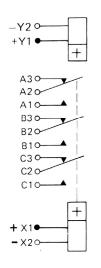
TERMINAL TYPE 4

Standard Tolerance: .xx ±.03; .xxx ±.010

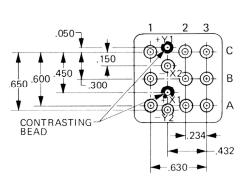


DIAGRAMS

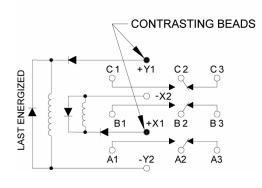
SCHEMATIC DIAGRAM



STANDARD TERMINAL LAYOUT



WIRING DIAGRAM



NUMBERING SYSTEM

		KCL	-	Α	4	Α	- XXX
Bas	sic series designation						
1.	Mounting styles (A, D, J)						
2.	Terminal types (1, 2, 4,)						
3.	Coil voltage, see coil characteristics (A, B, C, M, N, R or V)						
4.	XXX Designators						

NOTES

- 1. Standard Intermediate current test applicable.
- 2. 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.
- 3. DC inductive load 10,000 cycles, AC inductive load 20,000 cycles.
- 4. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- 5. Applicable military specification: MIL-PRF-6106 and MS27742.
- 6. Special models available: Dry circuit, established reliability testing, etc.
- 7. "N, R & V" coils have back EMF suppression to 5 volts maximum.
- 8. Relay will not be damaged by applying reverse voltage to the coil, although the relay may transfer.
- 9. 60 Hz load life, 10,000 cycles.
- 10. Time current relay characteristics per MIL-PRF-6106.

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