



All welded construction	
Contact arrangement	4 PDT
• Qualified to	MIL-PRF-83536 /5 & /6

Applicable sockets:

SO-1066-001 SM-1002-003

Application Notes:

PRINCIPLE TECHNICAL CHARACTERISTICS

0.81 in x 0.81 in x 0.64 in			

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole	Load current in Amps					
and load type [1]	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	Α	В	С	М	N [5]	R [5]	V [5]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage	29	14.5	7.3	50	29	14.5	7.3
Maximum pickup voltage							
- Cold coil at +125° C	18	9	4.5	36	18	9	4.5
- During high temp test at +125° C	19.8	9.9	5	38	19.8	9.9	5
- During continuous current test at +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Maximum drop-out voltage	7	4.5	2.5	14	7	4.5	2.5
Coil resistance in Ω ±10% at +25° C except types "C" and "V" +20%, -10% ± 20%	400	100	25	1275	400	100	25

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C			
Minimum operating cycles (life) at rated load	100,000			
Minimum operating cycles (life) at 25% rated load	400,000			
Dielectric strength at sea level				
- All circuits to ground and circuit to circuit	1000 Vrms			
- Coil to ground	1000 Vrms			
Dielectric strength at altitude 80,000 ft	500 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 (E mounting in track)	0.06 d.a / 10 to 57 Hz 10G /57 to 500 Hz 20G / 500 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 – E, J, and G mounting (E in track)	1E (0.2G ² /Hz, 50 to 2000 Hz)			
- Duration	15 minutes each plane			
Shock (A, D, and J mounting)	200G / 6 ms			
Shock (E mounting in track)	50G / 11 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	6 ms max			
Release time at nominal voltage @ 25°C	6 ms max			
Contact make bounce at nominal voltage @ 25°C	0.5 ms max			
Contact release break bounce at nominal voltage @ 25°C	0.1 ms max [7]			
Weight, maximum	0.058 lbs.			

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



MOUNTING STYLES

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



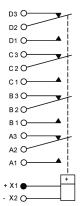
TERMINAL TYPES



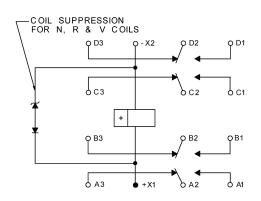
Dimensions in inches Tolerances, unless otherwise specified, XX \pm 0.03 in., XXX \pm 0.010

DIAGRAMS

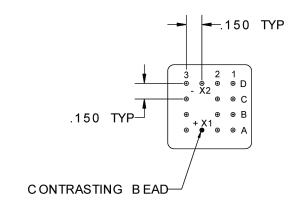
SCHEMATIC DIAGRAM



WIRING DIAGRAM



STANDARD TERMINAL LAYOUT



TOL: .XX ±.03; .XXX ±.010

NUMBERING SYSTEM

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

NOTES

- 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: 20,000 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. "N" "R" & "V" coils have back EMF suppression to 42 volts maximum.
- 6. 500 Vrms with silicone gasket compressed, 250 Vrms all other conditions.
- 7. Applicable to Type "N", "R" & "V" coils only.
- 8. Relay will not operate, but will not be damaged by application of reverse polarity on coil.
- 9. Reference MIL-PRF-83536/5 & 6

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