



Applicable sockets: SO-1063-9033/9034

Application Notes:	
002	
007	
023	

• All	weld	constr	uction
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Contact arrangement	1 PDT
• Qualified to	MIL-PRF-83536/36

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at 115 Vac 60Hz					
• Weight	0.1 lbs. max				
• Dimensions	1.01in x 0.51in x 1in				
Special models available upon request					
Hermetically sealed, corrosion resistant metal can					

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole	Load current in Amps				
and load type [1]	115 Vac, 60 Hz, 1Ø (CASE GROUNDED)				
Resistive	10				
Inductive	10				
Motor	8				
Lamp	4				
Overload	20				
Rupture	N/A				



COIL CHARACTERISTICS (Vdc/Vac)

CODE	Α	В	С	M	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 Ω ±10% at +25° C or max coil current (AMPS) at +25° C	320 Ω	80 Ω	20 Ω +20% -10%	1000 Ω	320 Ω	80 Ω	20 Ω +20% -10%

GENERAL CHARACTERISTICS

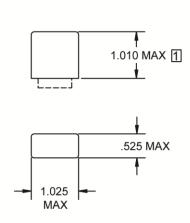
Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	25,000
Minimum operating cycles (life) at 25% rated load	100,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground and coil to coil	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [2]
Insulation resistance	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A, D and J mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Random vibration	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition - A, D and J mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, D and J mounting)	200G / 6 ms
Maximum contact opening time under vibration and shock	10 μs
Operate time at nominal voltage - Series JS @ 25°C	10 ms max
Release time at nominal voltage - Series JS @ 25°C	10 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

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

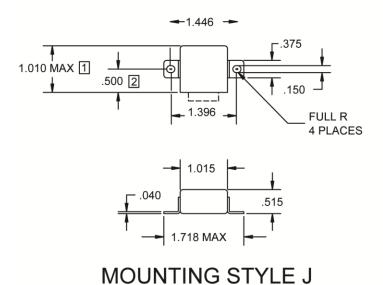


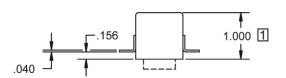
Dimensions in inches
Tolerances, unless otherwise specified
XX ± .03
XXX ± .010

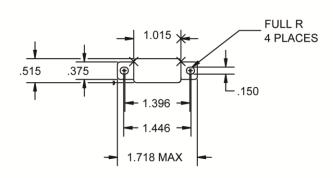
MOUNTING STYLES



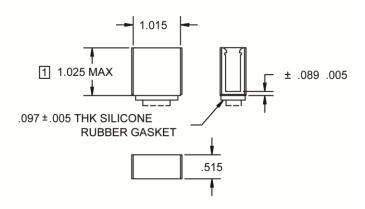
MOUNTING STYLE A







MOUNTING STYLE D



MOUNTING STYLE W

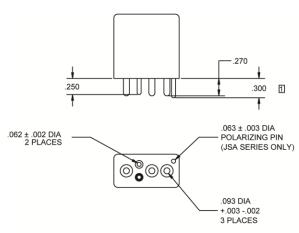
FOR USE WITH TRACK MOUNT SYSTEM. NOTE: TRACK SYSTEM NOT AVAILABLE FROM LEACH.

- 1 HEIGHT OF N, R & V COIL CODE = 1.250 MAX
- 2 DIMENSIONS FOR N, R & V COIL CODES = .550



Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

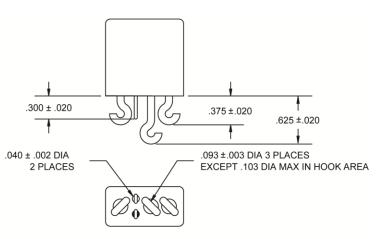
TERMINAL TYPES



CONTACT ROBISON ELECTRONICS, SAN LUIS OBISPO, CA. FOR INSULATOR PART NUMBER.

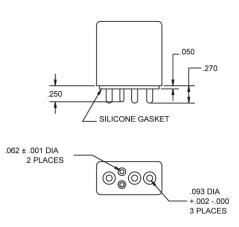
TERMINAL TYPE 1

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



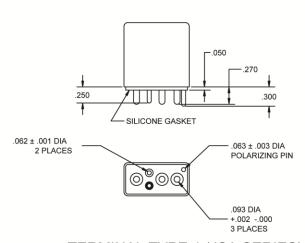
TERMINAL TYPE 2

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



TERMINAL TYPE 4 (JS SERIES)

FINISH: CASE-TIN PLATE PINS-GOLD PLATE



TERMINAL TYPE 4 (JSA SERIES)

FINISH: CASE-TIN PLATE PINS-GOLD PLATE POLARIZING PIN-TIN/LEAD



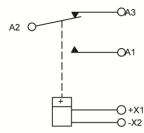
DIAGRAMS

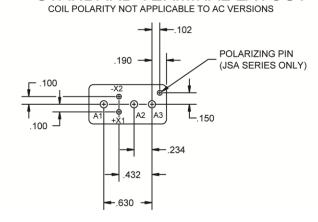
Dimensions in inches Tolerances, unless otherwise specified, \pm 0.03 in

SCHEMATIC DIAGRAM

STANDARD TERMINAL LAYOUT

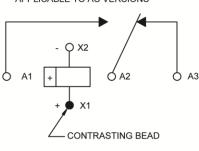
COIL POLARITY NOT APPLICABLE TO AC VERSIONS





WIRING DIAGRAM

COIL POLARITY NOT APPLICABLE TO AC VERSIONS



STANDARD TOLERANCE: .xx= ±.010
[1] COIL POLARITY NOT APPLICABLE TO AC VERSIONS

NUMBERING SYSTEM

		JS	-	D	1	Α	-	XXX	
Bas	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.
- 2. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- 3. Applicable military specification MIL-PRF-83536/36
- 4. "N," "R" & "V" coils have back EMF suppression to 42 volts maximum.
- 5. Relay will not operate, but will not be damaged by application of reverse polarity to coil.

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