



Applicable sockets:
SO-1063-9033/9034



Application Notes:

002
007
023

• All weld construction

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

AMERICAS.

Tel: +1 714-736-7599
<http://www.esterline.com/powersystems>

EUROPE.

Tel: +33 3 87 97 31 01
Fax: +33 3 87 97 96 86

ASIA

Tel: +852 2 191 3830
Fax: +852 2 389 5803

COIL CHARACTERISTICS (Vdc/Vac)

CODE	A	B	C	M	N [5]	R [5]	V [5]
	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)
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 $\pm 10\%$ 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%

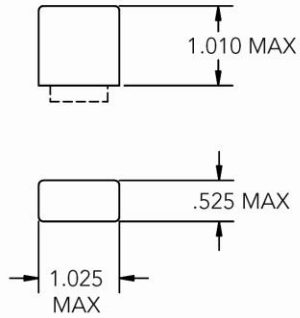
GENERAL CHARACTERISTICS

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 μ s
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
Weight maximum	0.1lbs

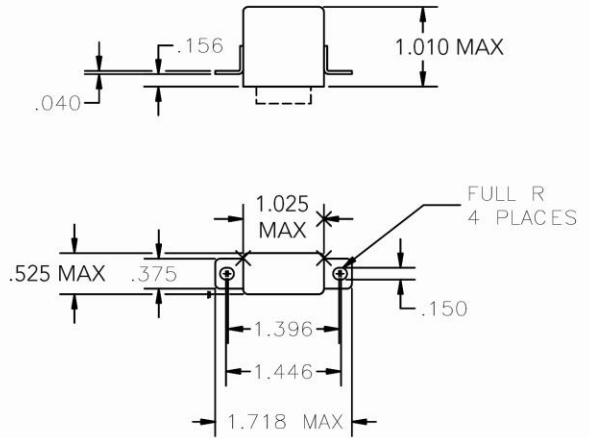
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

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

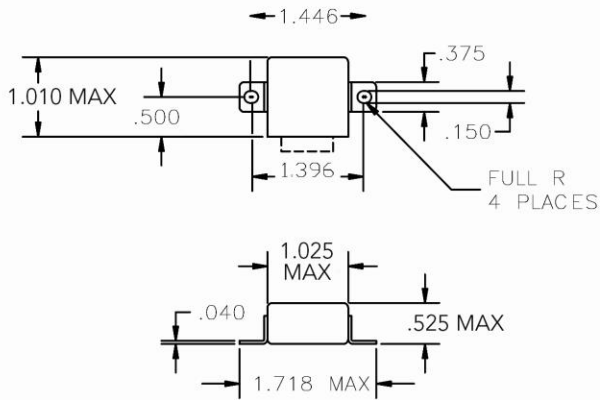
MOUNTING STYLES



MOUNTING STYLE A

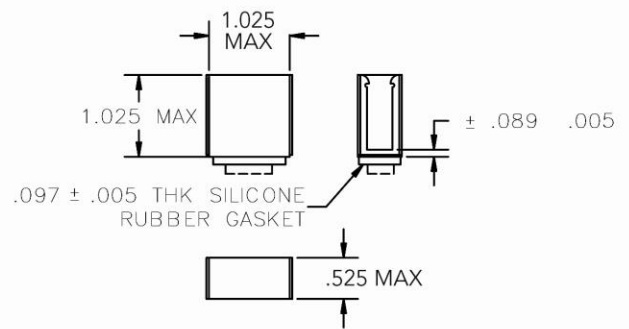


MOUNTING STYLE D



MOUNTING STYLE J

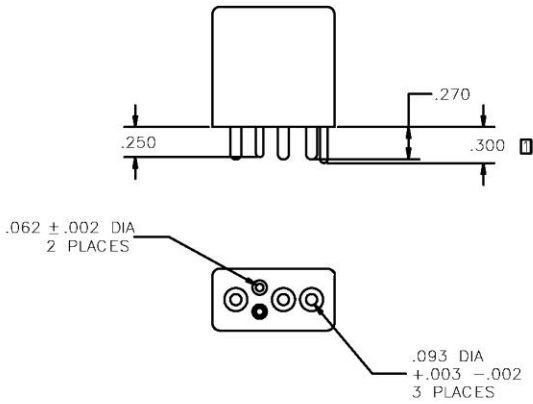
FOR USE WITH TRACK MOUNT SYSTEM. NOTE: TRACK SYSTEM NOT AVAILABLE FROM LEACH.



MOUNTING STYLE W

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

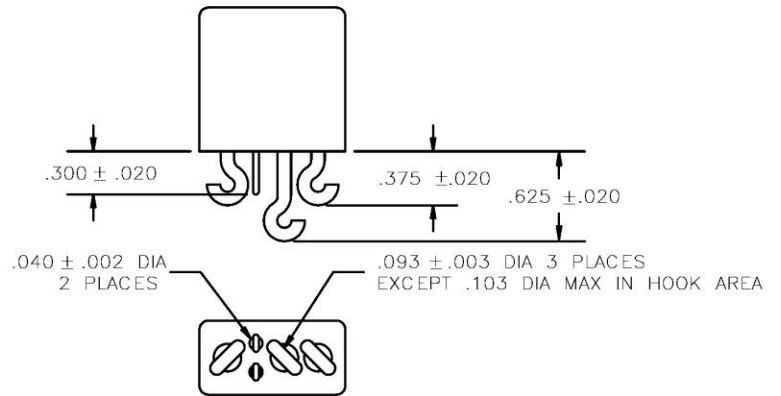
TERMINAL TYPES



CONTACT ROBISON ELECTRONICS, SAN LUIS OBISPO, CA. FOR INSULATOR PART NUMBER. *Not included with relay.*

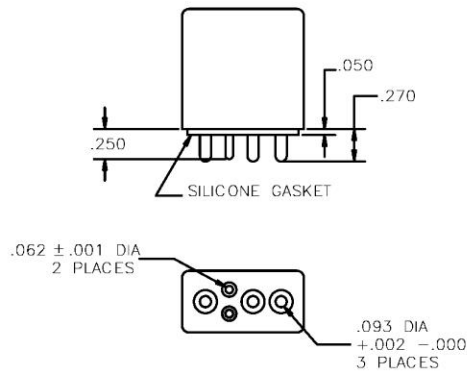
TERMINAL TYPE 1

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



TERMINAL TYPE 2

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



TERMINAL TYPE 4

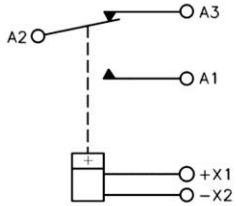
FINISH:
 CASE—TIN PLATE
 PINS—GOLD PLATE

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

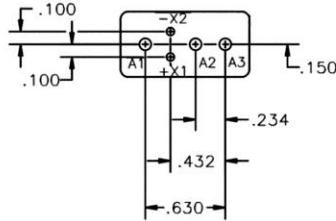
DIAGRAMS

SCHEMATIC DIAGRAM

COIL POLARITY NOT APPLICABLE TO DC VERSIONS

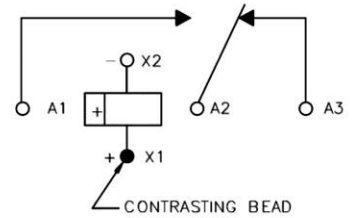


STANDARD TERMINAL LAYOUT



Bottom View

WIRING DIAGRAM



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

NUMBERING SYSTEM

JS - D 1 A - XXX

Basic 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

Example : JS-D1A-XXX

- JS-D1A (Commercial)
- JS-D2A-300 L (MIL)
- JS-D1A-123 (Customer Part)

NOTES

- 1. 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 Esterline Power Systems representative

<http://www.esterline.com/powersystems/Contact/TheAmericas.aspx>