



Applicable sockets:
SO-1063-9033/9034



Application Notes:

002
007
023

• All weld construction

• Contact arrangement

1 PDT

• Designed to the performance standards of

MIL-PRF-83536

PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at	115 Vac 60Hz
• Weight	0.1 lbs. max
• Dimensions	1.01in x 0.51in x 1.12in
• 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	E	F	J	K
	(400 Hz)	(400 Hz)	(50/400 Hz)	(50/400 Hz)
Nominal operating voltage	28	115	28	115
Maximum operating voltage	30	122	30	122
Maximum pickup voltage				
- Cold coil at +125° C	22	90	23	95
- During high temp test at +125° C	24.4	95.4	24.6	100
- During continuous current test at +125° C	25.6	103.5	25.9	105
Maximum drop-out voltage	10	30	10	30
Coil resistance $\Omega \pm 10\%$ at +25° C or max coil current (AMPS) at +25° C	.240 A	.040 A	.100 A	.024 A

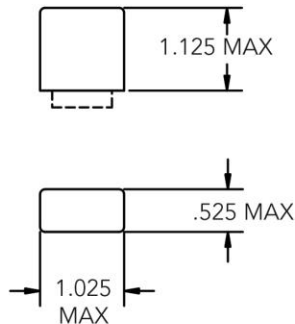
GENERAL CHARACTERISTICS

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 JSA @ 25°C	15 ms max
Release time at nominal voltage - Series JSA @ 25°C	50 ms max
Contact make bounce at nominal voltage @ 25°C	1 ms max
Weight maximum	0.1lbs

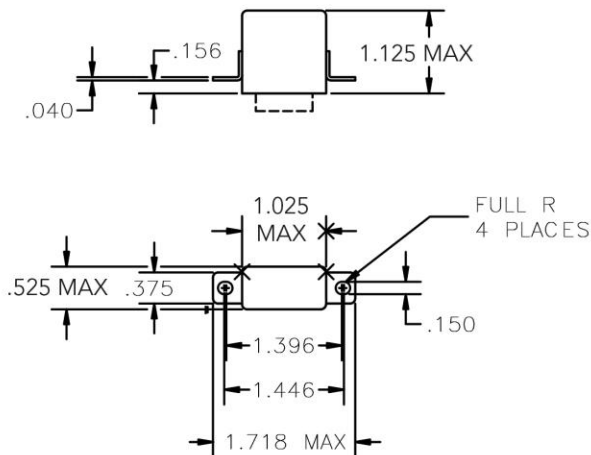
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

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

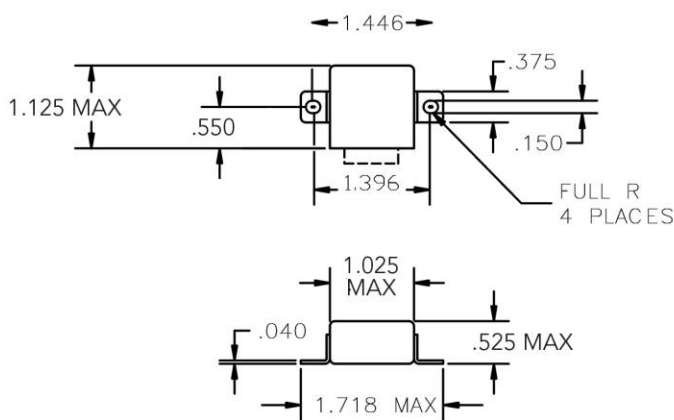
MOUNTING STYLES



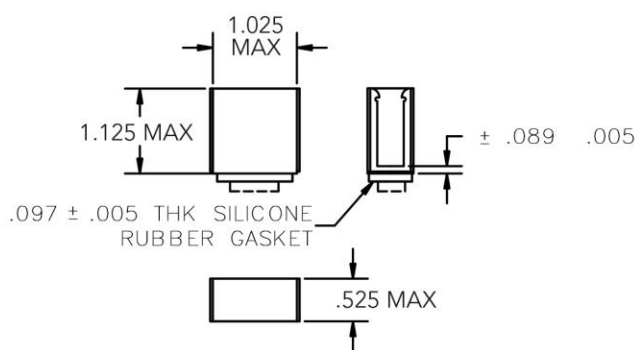
MOUNTING STYLE A



MOUNTING STYLE D



MOUNTING STYLE J

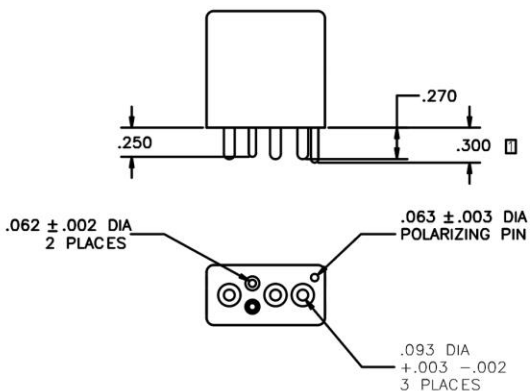


MOUNTING STYLE W

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

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

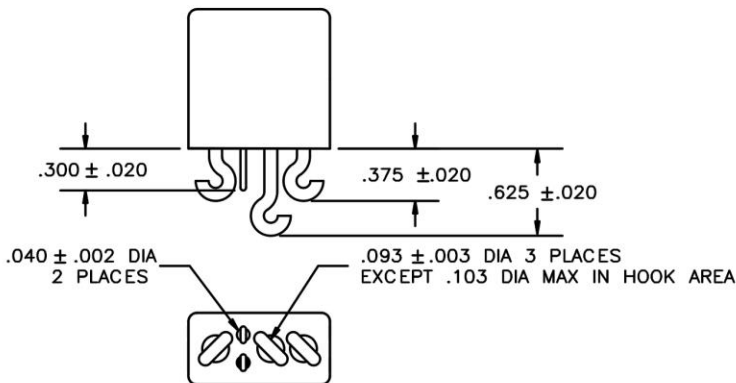
TERMINAL TYPES



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

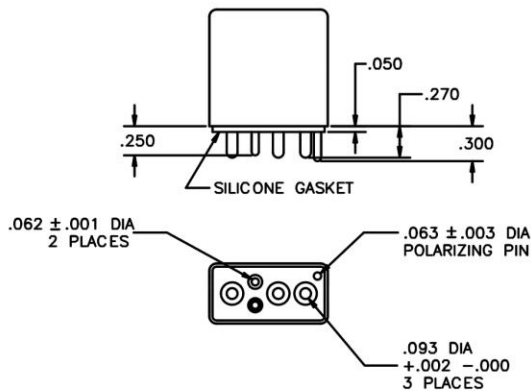
TERMINAL TYPE 1

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



TERMINAL TYPE 2

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



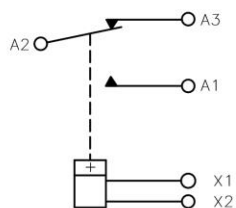
TERMINAL TYPE 4

FINISH:
CASE—PAINTED LEACH BLUE
TERMINALS—GOLD PLATE POLARIZING PIN—TIN/LEAD

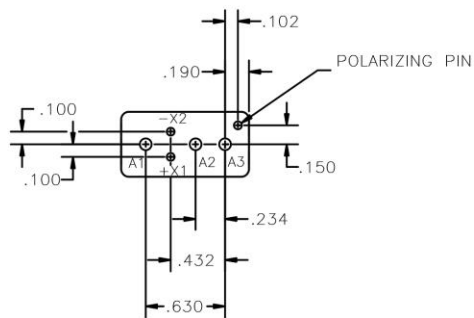
Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

DIAGRAMS

SCHEMATIC DIAGRAM

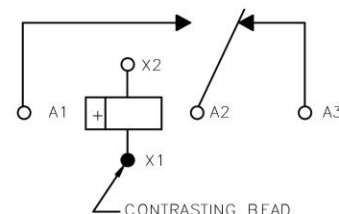


STANDARD TERMINAL LAYOUT



Bottom View

WIRING DIAGRAM



STANDARD TOLERANCE: .xx= ±.010

NUMBERING SYSTEM

JSA - A 1 E - XXX

Basic series designation

1. Mounting styles (A, D, E, J, W)
2. Terminal types (1, 2, 4,)
3. Coil voltage, see coil characteristics (E, F, J, K)
4. XXX Designators

Example : JSA-A1A-XXX

JSA-A1A (Commercial)
JSA-A1A-123 (Customer Part)

NOTES

1. Standard Intermediate current test applicable.
2. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
3. Meets the general requirements of but not qualified to MIL-PRF-83536.
4. Special models available: dry circuit, established reliability testing, etc.

For any inquiries, please contact your local Esterline Power Systems representative
<http://www.esterline.com/powersystems/Contact/TheAmericas.aspx>