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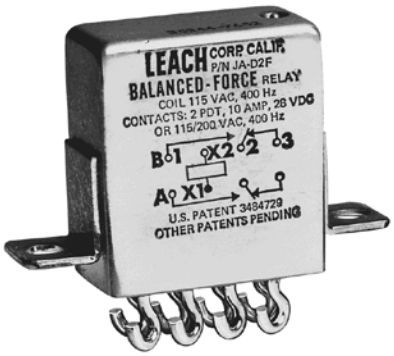
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Esterline
Power Systems
Featuring LEACH® Products

SERIES JA
RELAY – NONLATCH – AC COIL
2PDT, 10 AMP



- **115 Vac and 28 Vac, 400 Hz and 50/400 Hz Coil Voltages**
- **All weld construction**

• **Contact arrangement**	**2 PDT**
• **Qualified to**	**MIL-PRF-83536**

Applicable sockets:
SO-1049-8772/8774 SO-SSL





Application Notes:
102
007
023

PRINCIPLE TECHNICAL CHARACTERISTICS

• **Contacts rated at**	28 Vdc; 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz, 3Ø
• **Weight**	0.088 lbs. max
• **Dimensions**	1.01 in x .51 in x 1.12 in
• **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				
	@28 Vdc	@115 Vac 400 Hz	@115/200 Vac 400 Hz, 3Ø	@115/200 Vac 60 Hz, 3Ø [6]	@230/400 Vac 400 Hz, 3Ø [8]
Resistive	10	10	10	2.5	5
Inductive [5]	8	8	8	2.5	5
Motor	4	4	4	2	2
Lamp	2	2	-	-	-
Overload	40	60	60	N/A	N/A
Rupture	50	80	80	N/A	N/A

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http://www.esterline.com/powersystems

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COIL CHARACTERISTICS (Vac)

	Vac 400 Hz		Vac 50 through 400 Hz		Vac 400 Hz [6]
CODE	E	F	J	K	T
Nominal operating voltage	28	115	28	115	230
Maximum operating voltage	30	122	30	122	248
Maximum pickup voltage					
- Cold coil at +125° C	22	90	23	95	180
- During high temp test at +125° C	24.4	95.4	24.6	100	185
- During continuous current test at +125° C	25.6	103.5	25.9	105	195
Maximum drop-out voltage	10	30	10	30	60
Coil current max milliAmperes at +25° C	240	40	100	24	22

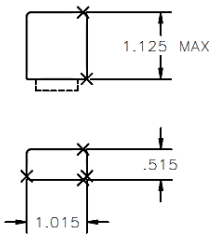
GENERAL CHARACTERISTICS

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	1250 Vrms
- Coil to ground	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
Sinusoidal vibration (G 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, D and J mounting	1G ($0.4G^2$/Hz, 50 to 2000 Hz)
- Test condition - 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 (G mounting)	100G / 6 ms
Maximum contact opening time under vibration and shock	10 µs
Operate time at nominal voltage@25°C	15 ms max
Release time at nominal voltage@25°C	50 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	0.088lb

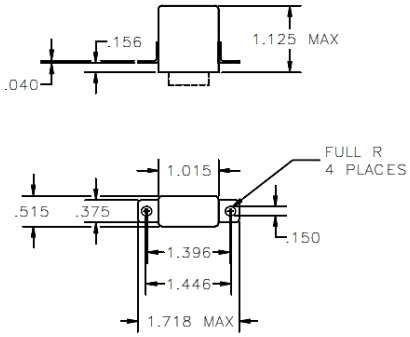
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

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

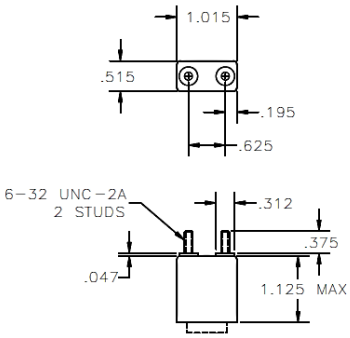
MOUNTING STYLES



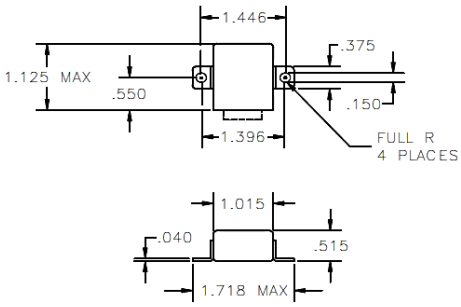
MOUNTING STYLE A



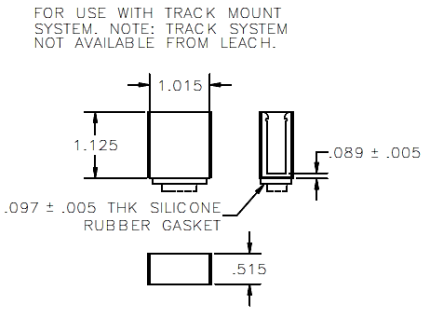
MOUNTING STYLE D



MOUNTING STYLE G

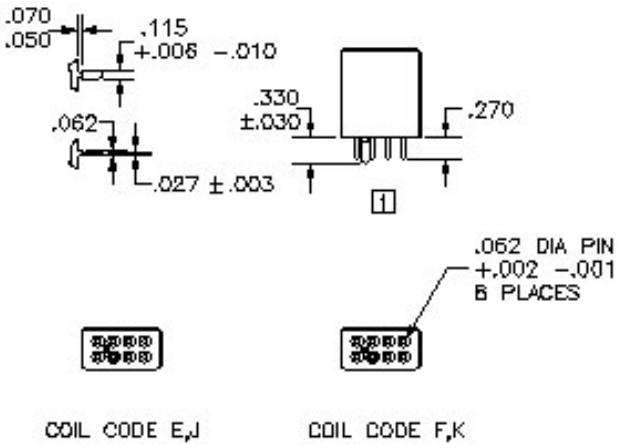


MOUNTING STYLE J

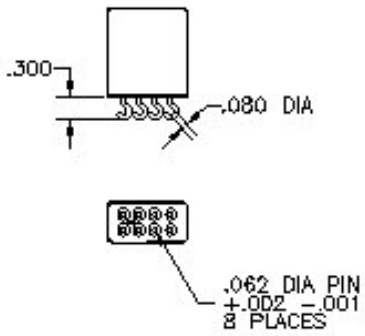


MOUNTING STYLE W

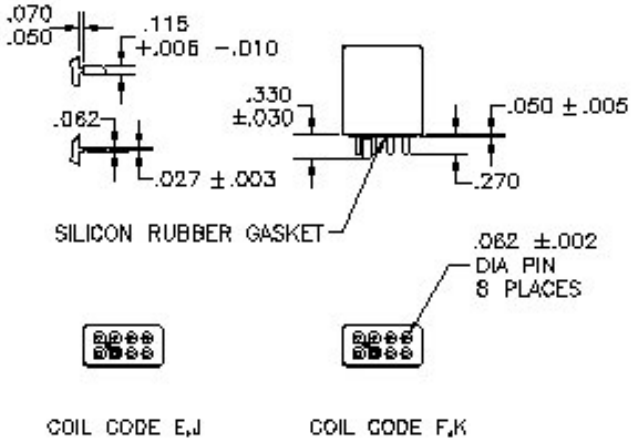
TERMINAL TYPES



TERMINAL TYPE 1
FINISH: TIN/LEAD PLATE



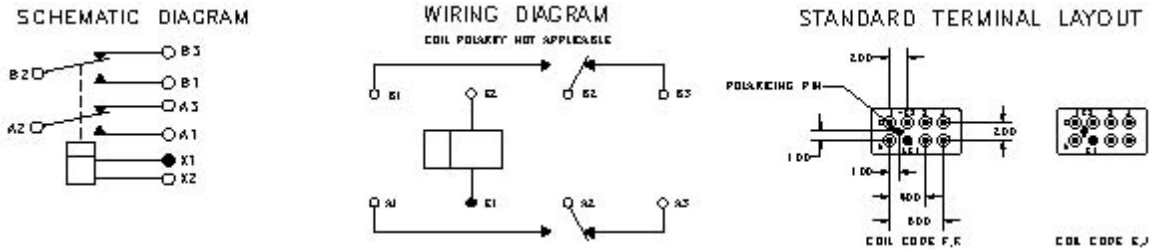
TERMINAL TYPE 2
FINISH: TIN/LEAD PLATE



TERMINAL TYPE 4
FINISH:
CASE: TIN/LEAD PLATE
PINS: GOLD PLATE
POLARIZING PIN: TIN/LEAD PLATE

SERIES JA
RELAY – NONLATCH – AC COIL
2PDT, 10 AMP

SCHEMATIC DIAGRAM



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

NUMBERING SYSTEM

JA - A 1 F - XXX

Basic series designation

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

Example : JA-A1F-XXX

JA-A1F (Commercial)
JA-A1F-300 L,M (MIL)
JA-A1F-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-83536/11.**
4. **Special models available: Dry circuit, established reliability testing, etc.**
5. **Inductive load life, 20,000 cycles for AC and 10,000 cycles for DC.**
6. **60 Hz load life, 10,000 cycles.**
7. **Time current relay characteristics per MIL-R-83536**
8. **Temperature range: Non-operating -62° C to +95° C Operating -54° C to +71° C**

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

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