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TECHNOLOGY GROUP

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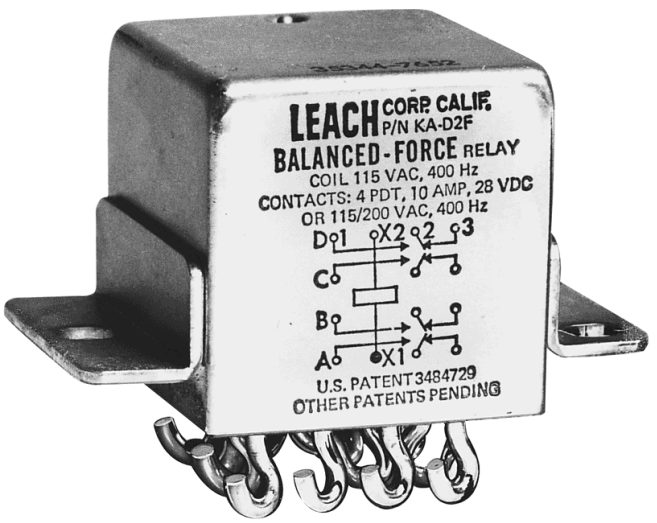
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Find the *Esterline / Leach KA-X9E-004* at our website: *Click HERE*

ENGINEERING DATA SHEET

SERIES KA

RELAY - NONLATCH - AC COIL
4 PDT, 10 AMP



115 Vac and 28 Vac, 400 Hz and 50/400 Hz coil voltages
All welded construction

Contact arrangement	**4 PDT**
Qualified to	**MIL-PRF-83536**

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	**28 Vdc; 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz 3Ø**
Weight	**0.155lb max**
Dimensions	**1.10in x 1.10in x 1.00in**

Special models available upon request.
Hermetically sealed, corrosion resistant metal can.

APPLICATION NOTES:
102
007
023

APPLICABLE SOCKET:
SO-1048-8776/8779

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 [2]	@230/400 Vac 400 Hz, 3Ø [8]
Resistive	10	10	10	2.5	5
Inductive [3]	8	8	8	2.5	5
Motor	4	4	4	2	2
Lamp	2	2	2	1	2
Overload	40	60	60	N/A	N/A
Rupture	50	80	80	N/A	N/A

Esterline Power Systems

Featuring LEACH© power and control solutions
www.esterline.com

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Fax: (01) 714-670-1145

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2 Rue Goethe
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Units 602-603 6/F Lakeside 1
No.8 Science Park West Avenue
Phase Two, Hong Kong Science Park
Pak Shek Kok, Tai Po, N.T.
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Fax: (852) 2 389 5803

Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.

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COIL CHARACTERISTICS (Vac) SERIES KA

	Vac 400Hz		Vac 50 thru 400Hz		Vac 400Hz
CODE	**E**	**F**	**J**	**K**	**T [8]**
Nominal operating voltage	28	115	28	115	230
Maximum operating voltage@+125°C	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 maximum milliAmperes at +25° C	225	40	120	28	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
Dielectric strength at sea level - Coil to ground	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
Insulation resistance - Initial (500 Vdc)	100 M Ω min
Insulation resistance - After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A and D mounting)	0.12DA / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (G and J mounting)	0.12DA / 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 - G and J mounting	1E ($0.2G^2$/Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, D and W mounting)	200G / 6 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	20 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 [6]
Weight maximum	0.169lb

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

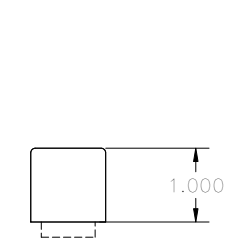
NOTES

[1] Standard Intermediate current test applicable.
[2] 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
3. Applicable military specification: MIL-R-83536.
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-PRF-83536.
8. Temperature range:
Non-operating -62° C to +95° C
Operating -54° C to +71° C

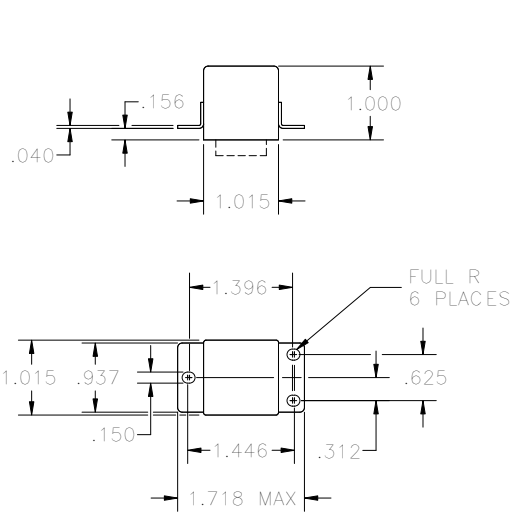
NUMBERING SYSTEM

```
                                                KA - A   1   F
Basic series designation_____________________________|   |   |
1-Mounting Style (A,D,G,J,W)_________________________________|   |
2-Terminal Types (1,2,4)_____________________________________|   |
3-Coil Voltage see coil characteristics (E,F,J,K or T)_____|
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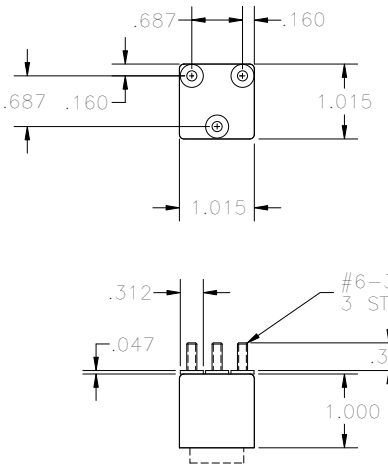
MOUNTING STYLES



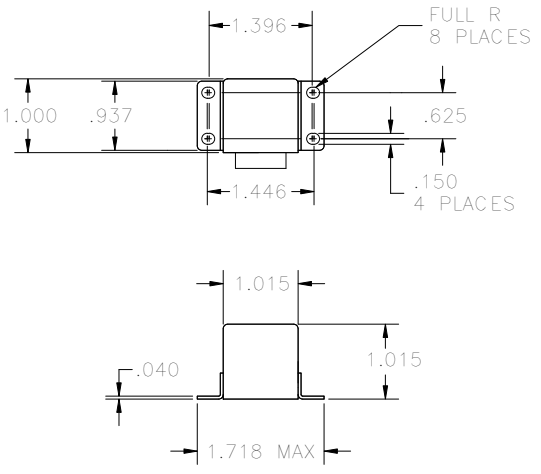
MOUNTING STYLE A



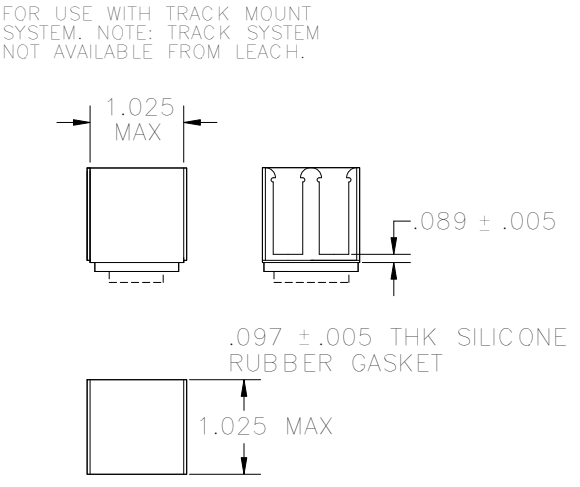
MOUNTING STYLE D



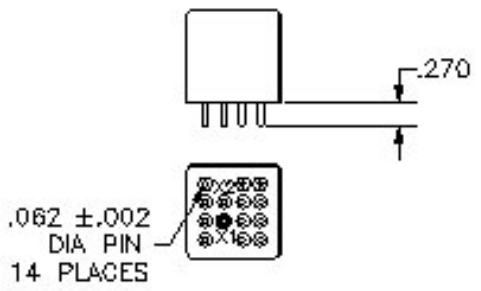
MOUNTING STYLE G



MOUNTING STYLE J



MOUNTING STYLE W



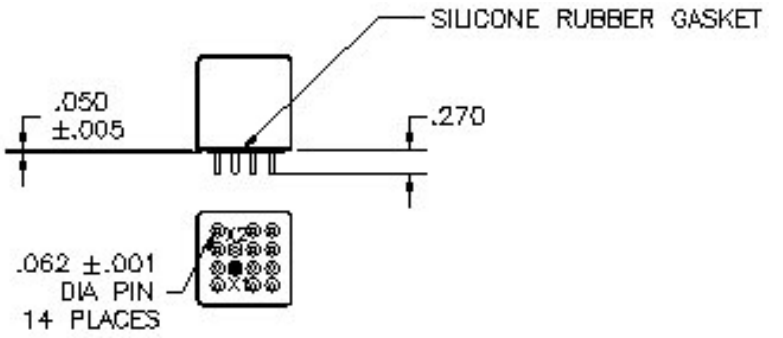
COIL CODE F,K



COIL CODE E,J

TERMINAL TYPE 1

FINISH: TIN/LEAD PLATE



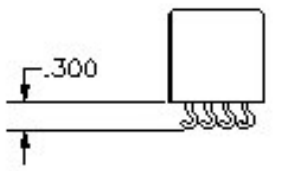
COIL CODE F,K

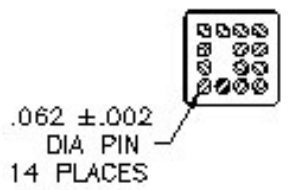


COIL CODE E,J

TERMINAL TYPE 4

FINISH:
CASE: TIN/LEAD PLATE
PINS: GOLD PLATE



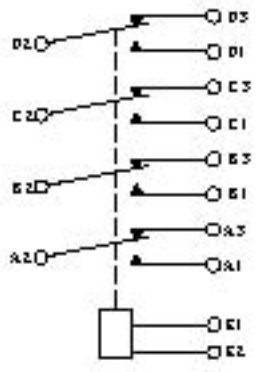


TERMINAL TYPE 2

FINISH: TIN/LEAD PLATE

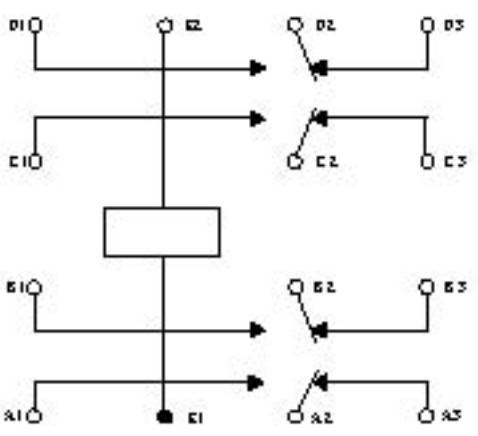
Standard Tolerance: .xx ±.03; .xxx ±.010

SCHEMATIC DIAGRAM



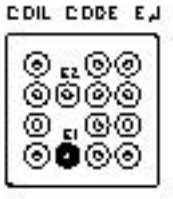
WIRING DIAGRAM

COIL POLARITY NOT APPLICABLE

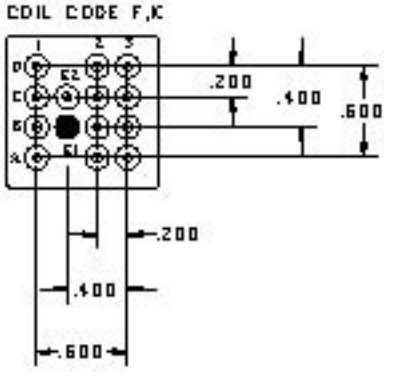


STANDARD TERMINAL LAYOUT

COIL CODE E,J



COIL CODE F,K



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