

KA SERIES RELAY – NONLATCH – AC COIL 4 PDT, 10 AMP



• 115 Vac and 28 Vac, 400 Hz and 50/400 Hz Coil Voltages

All weld 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

0.155 lbs. max

Dimensions

1.10 in x 1.10 in x 1.00 in

Special models available upon request

Hermetically sealed, corrosion resistant metal can

Applicable sockets: SO-1048-8776/8779

Application Notes:

102

007 023

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		



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COIL CHARACTERISTICS (Vac)

	Vac 400 Hz		Vac 50 through 400 Hz		Vac 400 Hz
CODE	Е	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 max 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 [5] [6]	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)	0.12 d.a. / 10 to 70 Hz		
·	30G / 70 to 3000 Hz		
Sinusoidal vibration (G and J 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 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]		

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

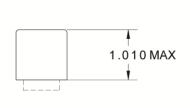


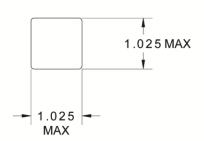
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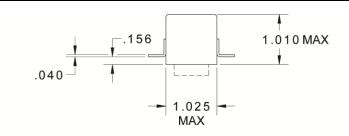
Dimensions in inches Tolerances, unless otherwise specified XX \pm .03; XXX \pm .010

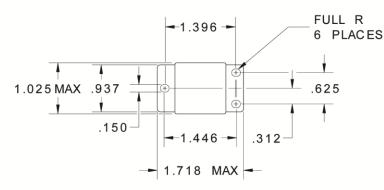
MOUNTING STYLES



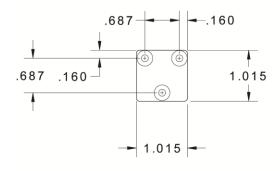


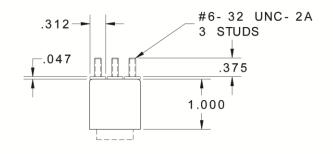
MOUNTING STYLE A



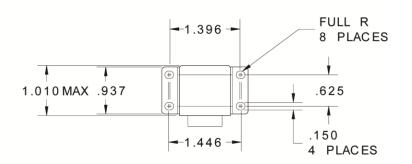


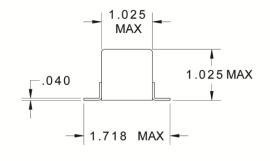
MOUNTING STYLE D





MOUNTING STYLE G





MOUNTING STYLE J



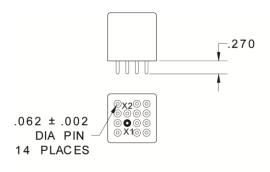
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Dimensions in inches

Tolerances, unless otherwise specified XX ± .03; XXX ± .010

TERMINAL TYPES



COIL CODE F,K



COIL CODE E,J

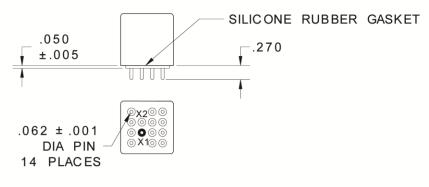
.310 MAX .062 ± .002 DIA PIN 14 PLACES

TERMINAL TYPE 2

FINISH: TIN/LEAD

TERMINAL TYPE 1

FINISH: TIN/LEAD



COIL CODE F,K



COIL CODE E,J

TERMINAL TYPE 4

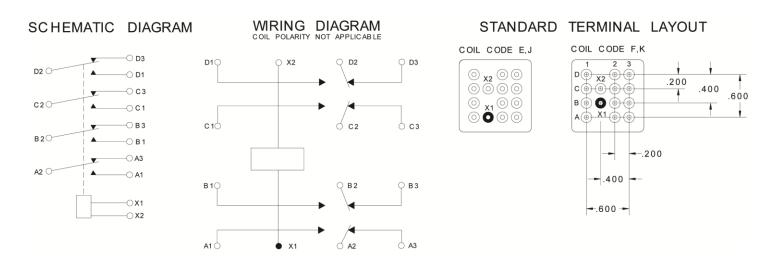
FINISH:

CASE: TIN PLATED PINS: GOLD PLATED

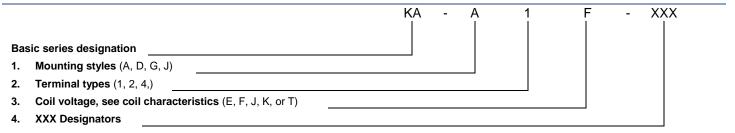


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SCHEMATIC DIAGRAM



NUMBERING SYSTEM



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
- 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

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