

RELAY - NONLATCH 3PST/NO +AUX, 25 AMP



Applicable sockets: SO-1061-8916

Application Notes:

007

· All welded construction

3 PST configuration with 1 PDT, 2 · Contact arrangement AMP auxiliary contacts in one inch

cube

· Designed to the MIL-PRF-6106 performance standards of

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	28 Vdc and 115/200 Vac, 400 Hz, 3Ø			
• Weight	0.188 lb max			
• Dimensions	1.01in x 1.01in x 1.00in			
Hermetically sealed, corrosion resistant metal can. Detail specifications and ordering data appear on the following pages.				
Contact factory for information on MIL-qualified part numbers.				

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole		Load current in Amps						
and load type [1]	@28 Vdc	@115 Vac 400 Hz	@115/200 Vac 400 Hz, 3Ø	@115/200 Vac 60 Hz, 3Ø [9]	@230/400 Vac 400 Hz [11]			
Resistive [2]	25	25	25	2.5	5			
Inductive [3]	12	15	15	2.5	5			
Motor	10	10	10	2	2			
Lamp	5 5		5	1	2			
Overload	50	80	80	N/A	N/A			
Rupture 60 100		100	100	N/A	N/A			
Contact rating of auxiliary contacts at 28 Vdc or 115 Vac, 400 Hz			Resistive 2 Amp	Inductive 1 Amp	Lamp 0.5 Amp			



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COIL CHARACTERISTICS (Vdc)

	Vac 400 Hz		Vac 50 thru 400 Hz		Vac 400 Hz	
CODE	E	F	J	К	T [11]	
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 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	50,000 [3]
Minimum operating cycles (life) at 25% rated load	200,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground	1000 Vrms [4]
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
Insulation resistance	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A, D, E and W mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (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, D and E 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, E and W mounting)	200G / 6 ms
Shock (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	
- Power contacts@25°C	1 ms max
- Auxiliary contacts @25°C	4 ms max
Contact release break bounce at nominal voltage @25°C	0.1 ms max [8]
Weight maximum Unless otherwise noted, the specified temperature range applies to all	0.188 lb

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



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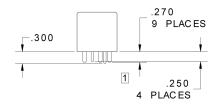
Dimensions in inches Tolerances, unless otherwise specified, $XX \pm 0.03$ in $XXX \pm .01$ in

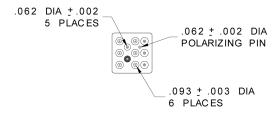
MOUNTING STYLES



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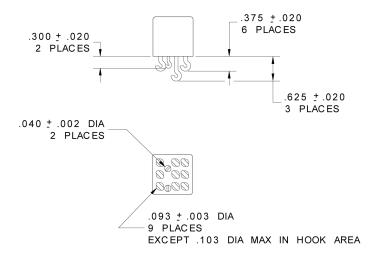
TERMINAL TYPES



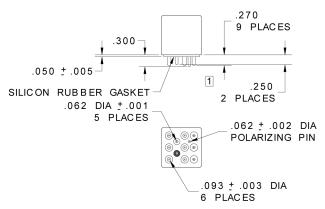


TERMINAL TYPE 1

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



TERMINAL TYPE 2



TERMINAL TYPE 4

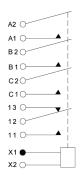
TYPE 4 TERMINALS AVAILABLE
ONLY WITH MOUNTING "A" OR "E"
FINISH:
B ODY- LEACH B LUE
TERMINALS- GOLD PLATED
POLARIZING PIN- TIN/ LEAD



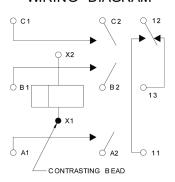
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DIAGRAMS

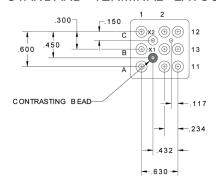
SCHEMATIC DIAGRAM



WIRING DIAGRAM



STANDARD TERMINAL LAYOUT



TOL: .XX ±.03; .XXX ±.010

NUMBERING SYSTEM

		KDA - A	٩ 4	· F
Bas	sic series designation			
1.	Mounting styles (A, D, E, J)			
2.	Terminal types (1, 2, 4,) [1]			
3.	Coil voltage, see coil characteristics (E, F, J, K or T)			

NOTES

- Standard Intermediate current test applicable. 1.
- 2. For full rated load, max. temp. and altitude use no. 12 wire or larger.

Relays to be mounted to limit mounting bracket temp. to 135° C.

- DC inductive load 10,000 cycles. AC inductive load 20,000 cycles. 3.
- Dielectric of auxiliary contact gap after life tests: 750 Vrms. 4.
- 5. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- Reference military specification: MIL-PRF-6106, and MIL-PRF-6106/13. 6.
- 7. Special models available: dry circuit, established reliability testing, etc.
- 8. Applicable to power contacts only.
- 60 Hz load life, 10,000 cycles. 9.
- 10. Time current relay characteristics per MIL-PRF-6106.
- 11. 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