

All weld construction

Contact arrangement

4 PDT

Qualified at 10 Amps to

MIL-PRF-83536/15

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	28 Vdc; 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz, 3Ø	
• Weight	0.200 lbs. max	
Dimensions	1.01 in x 1.10 in x 1.00 in	
Special models available upon request		
Hermetically sealed, corrosion resistant metal can		

Application Notes:

Applicable sockets: SO-1048-8308/8518

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 [2]		
Resistive	12	12	12	2.5		
Inductive [3]	8	8	8	2.5		
Motor	4	4	4	2		
Lamp	2	2	2	1		
Overload	40	60	60	N/A		
Rupture	50	80	80	N/A		

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K SERIES RELAY – NONLATCH 4 PDT, 12 AMP

COIL CHARACTERISTICS (Vdc)

CODE	Α	В	С	М	N [4]	R [4]	V [4]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage	29	14.5	7.3	50	29	14.5	7.3
Maximum pickup voltage							
- Cold coil at +125° C	18	9	4.5	36	18	9	4.5
- During high temp test at +125° C	19.8	19.9	5	38	19.8	9.9	5
- During continuous current test at +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Maximum drop-out voltage	7	4.5	2.5	14	7	4.5	2.5
Coil resistance Ω ±10% +25° C, except types "C" and "V" +20%, -10%	290	70	18	890	290	70	18

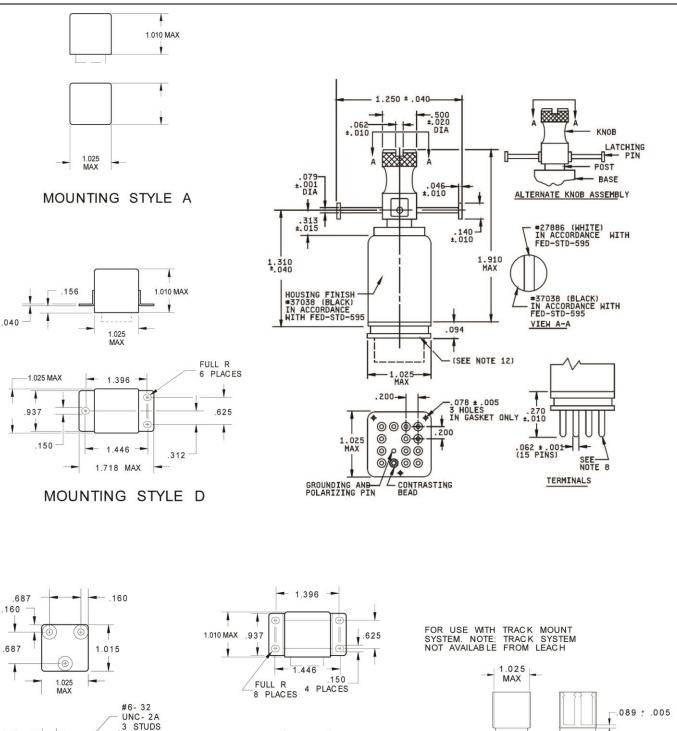
GENERAL CHARACTERISTICS

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, B, D and W 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, B, D and W 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, B, 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	15 ms max		
Release time at nominal voltage @25°C	15 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 (A, D, G, J and W mounting)	0.17 lbs.		

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

K SERIES RELAY – NONLATCH 4 PDT, 12 AMP

MOUNTING STYLES





.375

1 1

1.010 MAX

t

.312

.047

MOUNTING STYLE J

1.718 MAX

.040

1.015

1

1

1.025 MAX

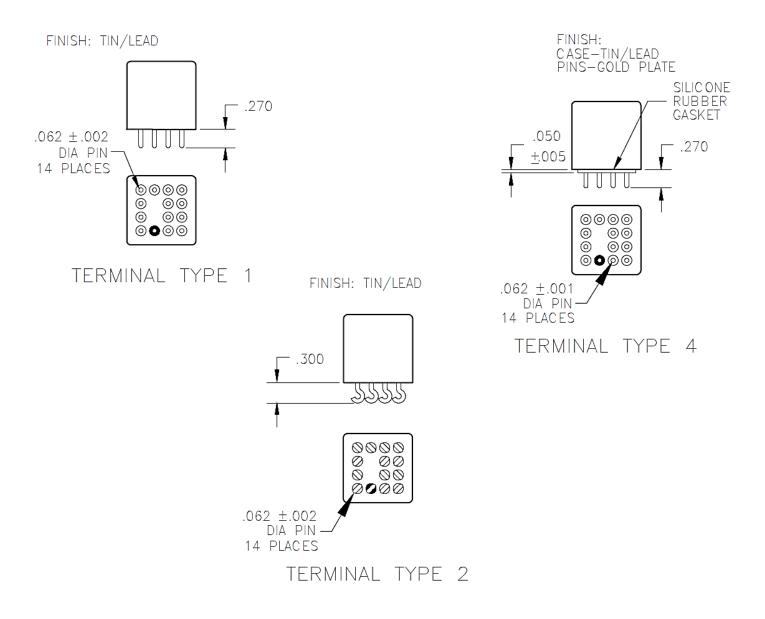
MOUNTING STYLE W

.097 ± .005 THK SILICONE

RUBBER GASKET

1.025 MAX

TERMINAL TYPES



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

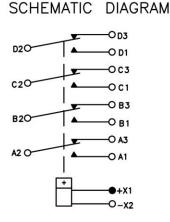
K SERIES

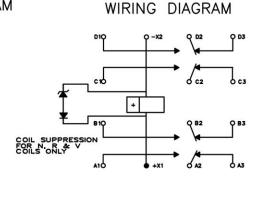
4 PDT, 12 AMP

RELAY – NONLATCH

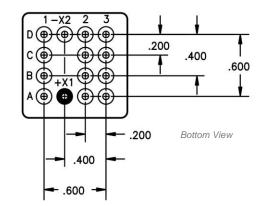
K SERIES RELAY – NONLATCH 4 PDT, 12 AMP

DIAGRAMS

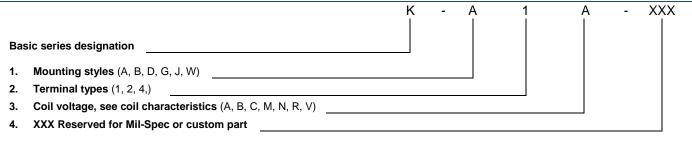




STANDARD TERMINAL LAYOUT



NUMBERING SYSTEM



NOTES

- 1. Standard Intermediate current test applicable.
- 2. 60 Hz load life, 10,000 cycles.
- 3. Inductive load life, 20,000 cycles
- 4. "N, R & V" coils have back EMF suppression to 42 volts maximum
- 5. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- 6. Applicable to Type "N, R & V" coils only.
- 7. Applicable military specification: MIL-PRF-83536. 8. Special models available: dry circuit, established reliability testing, etc.
- 8. Time current relay characteristics per MIL-PRF-83536.
- 9. Relay will not operate, but will not be damaged by application of reverse polarity to coil.

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