



· All welded construction

• Contact arrangement 3 PDT configuration in one inch cube

• Qualified to MIL-PRF-83536

Applicable sockets: SO-1057-8912

Application Notes:

PRINCIPLE TECHNICAL CHARACTERISTICS

 Hermetically sealed, corros data appear on the followin 	sion resistant metal can. Detail specifications and ordering				
• Dimensions	1.01in x 1.01in x 1.00in				
• Weight	0.188 lb max				
Contacts rated at	28 Vdc; 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz 3Ø				

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]				
Resistive [2] 25		25	25	2.5				
Inductive [3]	12	15	15	2.5				
Motor	10	10	10	2				
Lamp	5	5	5	1				
Overload	40	80	80	N/A				
Rupture	60	100	100	N/A				
Circuit Breaker	-	-	-					
Compatible [10]								



COIL CHARACTERISTICS (Vdc)

CODE	Α	В	С	М	N [7]	R [7]	V [7]
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	9.9	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% at +25° C except types "C" and "V" +20%, -10%	290	70	18	890	290	70	18

GENERAL CHARACTERISTICS

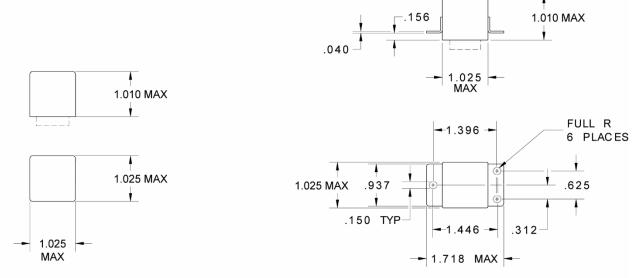
Temperature range	-70°C to +125°C				
Minimum operating cycles (life) at rated load	50,000 [3]				
Minimum operating cycles (life) at 25% rated load	200,000				
Dielectric strength at sea level					
- All circuits to ground and circuit to circuit	1250 Vrms				
- Coil to ground	1000 Vrms				
Dielectric strength at altitude 80,000 ft	500 Vrms [4]				
Insulation resistance					
- Initial (500 Vdc)	100 M Ω min				
- 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 (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 ± 1 ms				
Shock (J mounting)	100G / 6 ± 1 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 [8]				

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



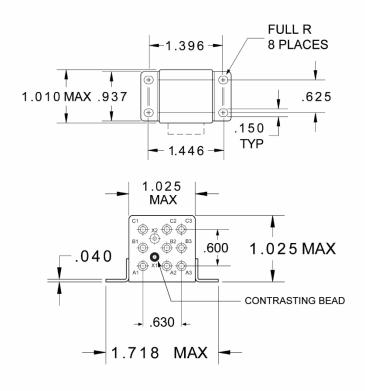
MOUNTING STYLES

Dimensions in inches Tolerances, unless otherwise specified, \pm 0.03 in



MOUNTING STYLE A

MOUNTING STYLE D

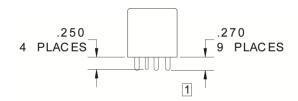


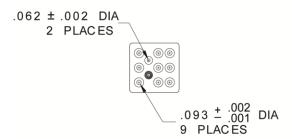
MOUNTING STYLE J

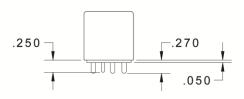
KC SERIES

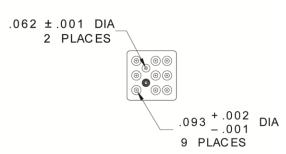
RELAY – NONLATCH 3PDT, 25 AMP

TERMINAL TYPES









TERMINAL TYPE 1

FINISH:

CASE: TIN/LEAD (All M83536 qualified relays)
BLUE PAINT UPON REQUEST

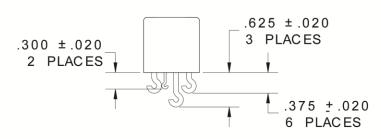
TERMINALS: TIN/LEAD PLATE

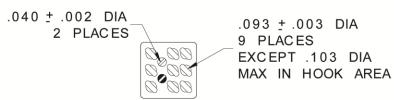
TERMINAL TYPE 4

FINISH:

CASE: TIN/LEAD (All M83536 qualified relays)
BLUE PAINT UPON REQUEST

TERMINALS: GOLD PLATE





TERMINAL TYPE 2

FINISH:

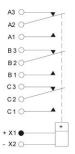
CASE: TIN/LEAD (All M83536 qualified relays)
BLUE PAINT UPON REQUEST

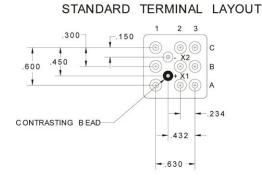
TERMINALS: TIN/LEAD PLATE



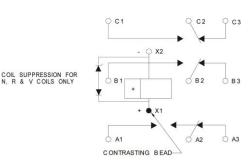
DIAGRAMS

SCHEMATIC DIAGRAM





WIRING DIAGRAM



With EMF Suppression [7]

TOL: .XX ±.03; .XXX ±.010

NUMBERING SYSTEM

		KC	-	D	1	Α	-	XXX
Bas	sic series designation							
1.	Mounting styles (A, D, J, W)							
2.	Terminal types (1, 2, 4,)							
3.	Coil voltage, see coil characteristics (A, B, C, M, N, R, V)							
4.	XXX Designators							

NOTES

- 1. Standard Intermediate current test applicable
- For full rated load, max. temp. and altitude use no. 12 wire or larger.
 Solder hook relays to be mounted to limit mounting bracket temp. to 160° C.
- 3. DC inductive load 10,000 cycles, AC inductive load 20,000 cycles.
- 4. 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- 5. Applicable military specification: MIL-PRF-83536.
- 6. Special models available: Dry circuit, high reliability testing, etc.
- 7. "N, R & V" coils have back EMF suppression to 42 volts maximum.
- 8. Applies to "N, R & V" coils only
- 9. 60 Hz load life, 10,000 cycles.
- 10. Time current relay characteristics per MIL-PRF-83536
- 11. 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