

RELAY - LATCHING 3 PDT, 25 AMP



Magnetic latch operation

All weld construction

 Contact arrangement 3 PDT configuration in one inch cube

 Qualified to MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	28 Vdc; 115 Vac, 400 Hz, 1Ø 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					

Applicable sockets: SO-1058-8913



Application Notes:

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 [2]	25	25	25	2.5			
Inductive [3]	12	15 15		15 15	2.5		
Motor	10	10	10	2			
Lamp	5	5	5	1			
Overload	50	80	80	N/A			
Rupture	60	100	100	N/A			

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COIL CHARACTERISTICS (Vdc)

CODE	Α	В	С	M	N [7]	R [7]	V [7]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage @ +125°C	29	14.5	7.3	59	29	14.5	7.3
Maximum pickup voltage							
- Cold coil @ +125° C	18	9	4.5	24	18	9	4.5
- During high temp test @ +125° C	19.8	9.9	5	34.5	19.8	9.9	5
- During continuous current test @ +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Coil resistance Ω ±10% at +25° C except types "C" & "V" +20%, -10%	450	112	28	1500	450	112	28

GENERAL CHARACTERISTICS

-70°C to +125°C			
50,000 [3]			
200,000			
1250 Vrms			
1000 Vrms			
500 Vrms [4]			
100 M Ω min			
50 M Ω min			
0.12 d.a. / 10 to 70 Hz			
30G / 70 to 3000 Hz			
0.12 d.a. / 10 to 57 Hz			
20G /57 to 3000 Hz			
MIL-STD-202			
214			
1G (0.4G ² /Hz, 50 to 2000 Hz)			
1E (0.2G ² /Hz, 50 to 2000 Hz)			
15 minutes each plane			
200G / 6 ms ±1			
100G / 6 ms ±1			
15 ms max			
15 ms max			
10 µs			
1 ms max			
0.188 lb			

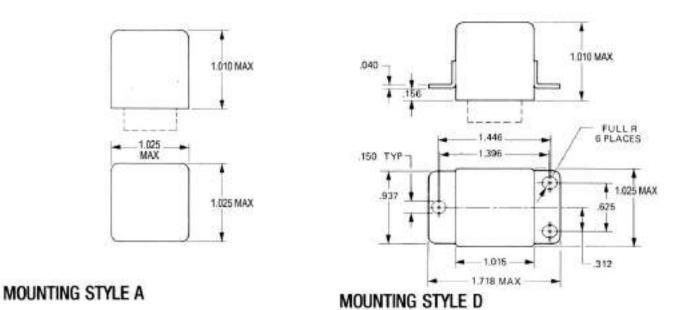
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

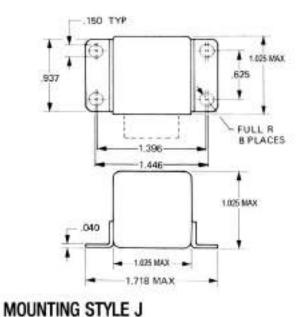






MOUNTING STYLES

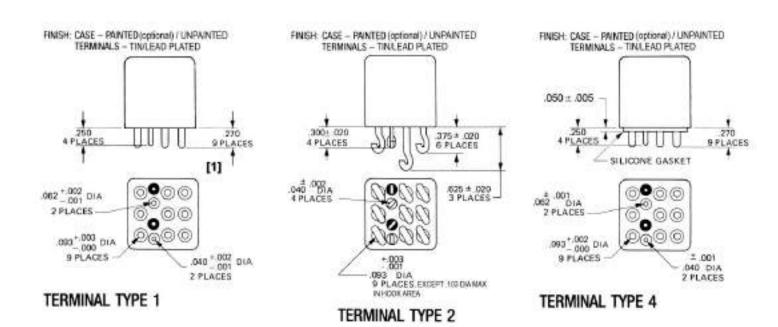






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TERMINAL TYPES

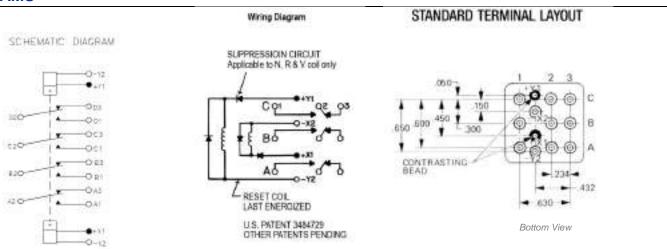


Standard Tolerance: .xx ±.03; .xxx ±.010



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DIAGRAMS



NUMBERING SYSTEM

		KCL	-	Α	4	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 or V)							
4.	XXX Designators							

Example : KCL-A1A-XXX KCL-A4A (Commercial) KCL-A4A-102 (MIL)

KCL-A4A-123 (Customer Part)

NOTES

- 1. Standard Intermediate current test applicable.
- 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.
- 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-6106 and MS27742.
- 6. Special models available: Dry circuit, established reliability testing, etc.
- 7. "N, R & V" coils have back EMF suppression to 5 volts maximum.
- 8. Relay will not be damaged by applying reverse voltage to the coil, although the relay may transfer.
- 9. 60 Hz load life, 10,000 cycles.
- 10. Time current relay characteristics per MIL-PRF-6106.

For any inquiries, please contact your local Esterline Power Systems representative http://www.esterline.com/powersystems/Contact/TheAmericas.aspx