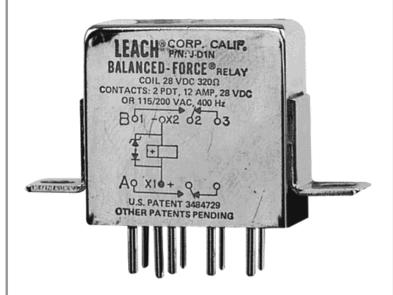
SERIES J

ENGINEERING DATA SHEET

RELAY - NONLATCH 2 PDT, 12 AMPS



APPLICATION NOTES:

023

APPLICABLE SOCKET:

SO-1049-8309/8987 SO-SSL

All welded construction

Contact arrangement **2 PDT**

Qualified at 10 Amps to MIL-PRF-83536

PRINCIPLE TECHNICAL CHARACTERISTICS

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

phase and 115/200 Vac, 400

Hz, 3 phases

0.088lb max Weight

1.01in x .51in x 1.00in Dimensions of case

Special models available upon request.

Hermetically sealed, corrosion resistant metal can.

Contact factory for information on MIL-qualified part numbers.

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



Featuring LEACH® power and control solutions www.esterline.com

AMERICAS EUROPE 6900 Orangethorpe Ave. 2 Rue Goethe

P.O. Box 5032 57430 Sarralbe Buena Park, CA 90622

France

ASIA

Units 602-603 6/F Lakeside 1 No.8 Science Park West Avenue Phase Two, Hong Kong Science Park Pak Shek Kok, Tai Po, N.T.

Hong Kong

Tel: (01) 714-736-7599 Tel: (852) 2 191 3830 Tel: (33) 3 87 97 31 01 Fax: (01) 714-670-1145 Fax: (33) 3 87 97 96 86 Fax: (852) 2 389 5803

Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.

CODE		В	С	M	N [4]	R [4]	V [4]
Nominal operating voltage		12	6	48	28	12	6
Maximum operating voltage		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		9.9	5	38	19.8	9.9	5
- During continuous current test at +125° C		11.25	5.7	42	22.5	11.25	5.7
Maximum drop-out voltage		4.5	2.5	14	7	4.5	2.5
Coil resistance Ω ±10% at +25° C, except types "C" and "V" +20%, -10%		80	20	1000	320	80	20

GENERAL CHARACTERISTICS

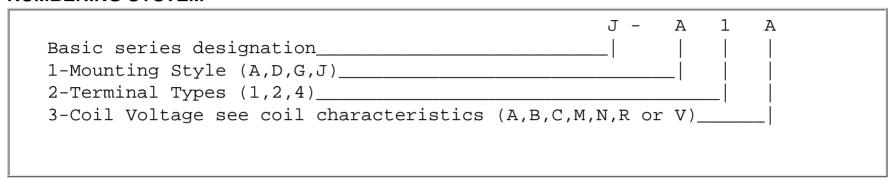
Temperature range	-70°C to +125°C			
Minimum operating cycles (life) at rated load	100,000			
Minimum operating cycles (life) at 25% rated load	400,000			
Dielectric Strength at sea level - All circuits to ground and circuit to circuit	1250 Vrms			
Dielectric Strength at sea level - Coil to ground	1000 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 vibrations (A, D and J mounting)	0.12DA / 10 to 70 Hz 30 g / 70 to 3000 Hz			
Sinusoidal vibrations (G mounting)	0.12DA / 10 to 57 Hz 20g /57 to 3000 Hz			
Random vibrations	,			
- Applicable specification	MIL-STD-202			
- Method	214			
- Test condition - A, D and J Mounting	1G (0.4g ² /Hz, 50 to 2000 Hz)			
- Test condition - G Mounting (E in Track)	1E (0.2g ² /Hz, 50 to 2000 Hz)			
- Duration	15 minutes each plane			
Shocks (A, D and J mounting)	200 g / 6 ms			
Shocks (G mounting)	100 g / 6 ms			
Maximum contact opening time under vibrations and shocks	10 μs			
Operate time at nominal voltage@25°C	10 ms max			
Release time at nominal voltage@25°C	10 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	0.088lb			

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

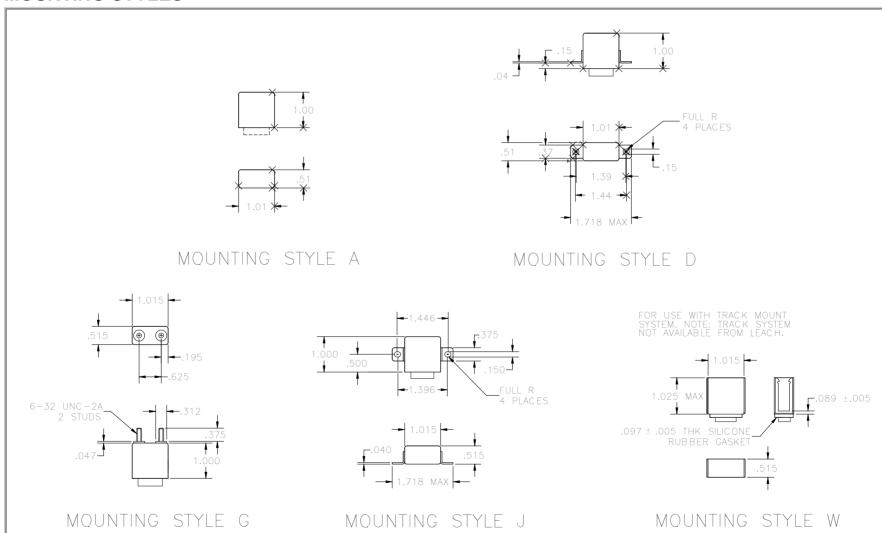
NOTES SERIES J

- [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 suppressed coils only.
- 7. Applicable military specification: MIL-PRF-83536.
- 8. Special models available: Dry circuit, established reliability testing, etc.
- 9. Time current relay characteristics per MIL-PRF-83536.
- 10. Relay will not operate, but will not be damaged by application of reverse polarity to coil.

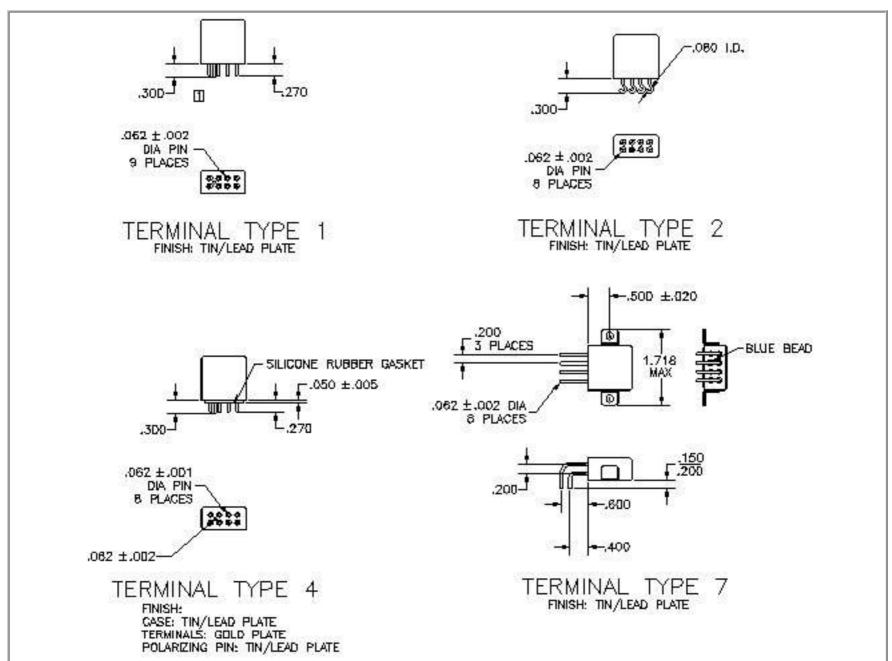
NUMBERING SYSTEM



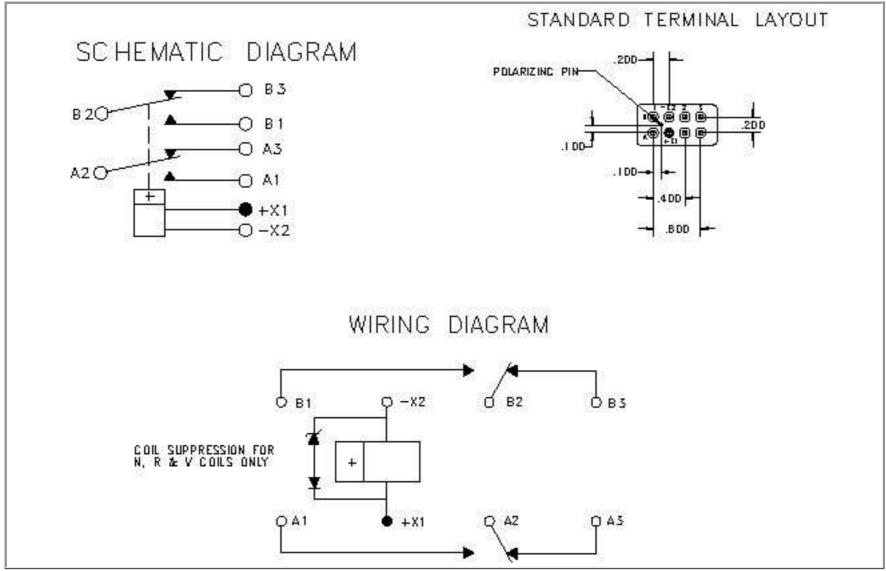
MOUNTING STYLES



TERMINAL TYPES SERIES J



Standard Tolerance: ± .010 1. Insulator P/N RC-RP800060-5 or RC-RP920060-1 available from Cornucopia Plastics, Paso Robles, CA.



STANDARD TOL: ±.010