





Applicable sockets: SO-1063-9033/9034



Application Notes:

002 007 023

All weld construction

Contact arrangement	1 PDT				
• Qualified to	MIL-PRF-83536/36				

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	115 Vac 60Hz		
• Weight	0.1 lbs. max		
• Dimensions	1.01in x 0.51in x 1in		
Special models available upon request			
Hermetically sealed, corrosion resistant metal can			

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps 115 Vac, 60 Hz, 1Ø (CASE GROUNDED)				
Resistive	10				
Inductive	10				
Motor	8				
Lamp	4				
Overload	20				
Rupture	N/A				

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1/5



JS SERIES RELAY – NONLATCH 1PDT, 10 AMP

COIL CHARACTERISTICS (Vdc/Vac)

CODE	Α	В	С	M	N [5]	R [5]	V [5]
	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(Vdc)
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 or max coil current (AMPS) at +25° C	320 Ω	80 Ω	20 Ω +20% -10%	1000 Ω	320 Ω	80 Ω	20 Ω +20% -10%

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	25,000
Minimum operating cycles (life) at 25% rated load	100,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground and coil to coil	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [2]
Insulation resistance	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A, D and J mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Random vibration	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition - A, D and J mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, D and J mounting)	200G / 6 ms
Maximum contact opening time under vibration and shock	10 μs
Operate time at nominal voltage - Series JS @ 25°C	10 ms max
Release time at nominal voltage - Series JS @ 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
Weight maximum	0.1lbs
Maximum contact opening time under vibration and shock Operate time at nominal voltage - Series JS @ 25°C Release time at nominal voltage - Series JS @ 25°C Contact make bounce at nominal voltage @ 25°C Contact release break bounce at nominal voltage @ 25°C	10 µs 10 ms max 10 ms max 1 ms max 0.1 ms max 0.1lbs

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

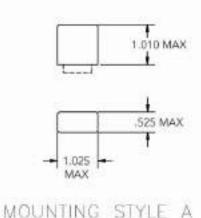


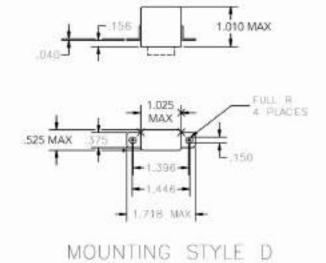
JS SERIES

RELAY - NONLATCH 1PDT, 10 AMP

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

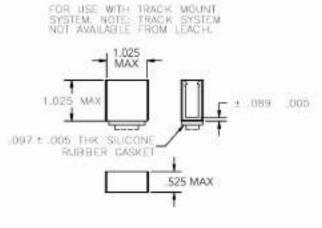
MOUNTING STYLES





1.010 MAX .500 FOLL R 4 PLACES





MOUNTING STYLE W



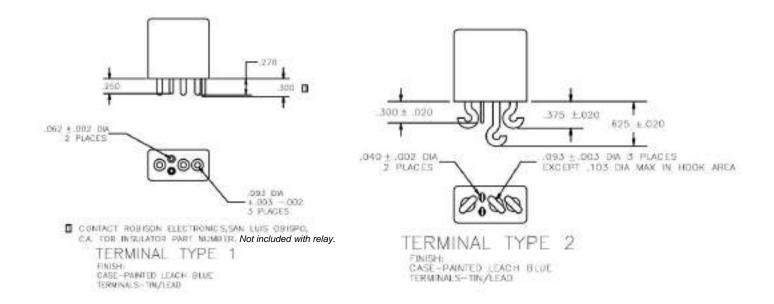
JS SERIES

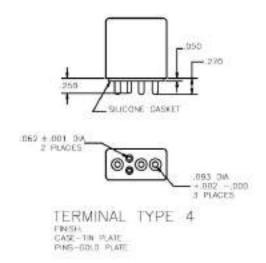
RELAY – NONLATCH 1PDT, 10 AMP

Dimensions in inches

Tolerances, unless otherwise specified, ± 0.03 in

TERMINAL TYPES







DIAGRAMS

JS SERIES RELAY - NONLATCH 1PDT, 10 AMP

Dimensions in inches Tolerances, unless otherwise specified, ± 0.03 in

SCHEMATIC DIAGRAM STANDARD TERMINAL LAYOUT WIRING DIAGRAM COIL POLARITY NOT APPLICABLE TO DC VERSIONS CAL CONTRASTING BEAD -.630-

Bottom View

STANDARD TOLERANCE: .xx= ±.010
[1] COIL POLARITY NOT APPLICABLE TO AC VERSIONS.

NUMBERING SYSTEM

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

Example: JS-D1A-XXX JS-D1A (Commercial) JS-D2A-300 L (MIL) JS-D1A-123 (Customer Part)

NOTES

- Standard Intermediate current test applicable. 1.
- 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions. 2.
- 3. Applicable military specification - MIL-PRF-83536/36
- 4. "N," "R" & "V" coils have back EMF suppression to 42 volts maximum.
- 5. Relay will not operate, but will not be damaged by application of reverse polarity to coil.

For any inquiries, please contact your local Esterline Power Systems representative

http://www.esterline.com/powersystems/Contact/TheAmericas.aspx