



Total State
11200 W
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All welded construction	
Contact arrangement	3 PDT
Qualified to	MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	Low level, 28 Vdc and 115/200 Vac, 400 Hz, 3Ø, case grounded		
• Weight	0.062 lbs. max		
Dimensions	0.81 in x 0.81 in x 0.64 in		
Special models available upon request			
Hermetically sealed, corrosion resistant metal can			

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole	Load current in Amps					
and load type [1]	28 Vdc	115 Vac, 400 Hz, 1Ø	115/200 Vac, 400 Hz, 3Ø			
Resistive	10	10	10			
Inductive [2]	6	8	8			
Motor	4	4	4			
Lamp	2	2	-			
Overload	30	60	60			
Rupture	40	80	80			
Low level [3]	-	-	-			
Time current characteristics [4]	-	-	-			

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The technical information provided by Esterline Power Systems is to be used as a guide only, and is not meant for publication or as documentation for altering any existing specification. Dimensions are in inches unless otherwise specified. Rev. 3/2016.

Applicable sockets: SO-1065-001 SM-1001-003

Application Notes:

COIL CHARACTERISTICS (Vdc)

CODE	Α	В	С	М	N [5]	R [5]	V [5]
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				1	1		
- 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 in Ω ±10% at +25° C except types "C" and "V" +20%, - 10% ± 20%	400	100	25	1275	400	100	25

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C			
Minimum operating cycles (life) at rated load	50,000			
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 [6]			
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 (E mounting in track)	0.06 d.a. / 10 to 57 Hz 10G / 57 to 500 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 and D mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)			
- Test condition - E, J and G mounting (E in track)	1E (0.2G ² /Hz, 50 to 2000 Hz)			
- Duration	15 minutes each plane			
Shock (A and D mounting)	200G / 6 ms			
Shock (E mounting in track)	50G / 11 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	6 ms max			
Release time at nominal voltage @ 25°C	6 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 [7]			
Weight maximum	0.062 lbs.			

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

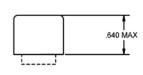


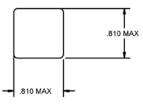
SERIES YC RELAY – NONLATCH 3PDT, LOW LEVEL TO 10 AMP

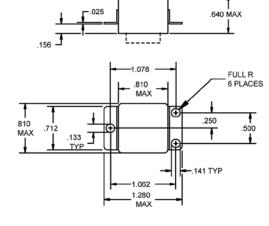
.080 ± .005

Dimensions in inches Tolerances, unless otherwise specified .XX ± 0.03 in .XXX ± 0.10 in

MOUNTING STYLES







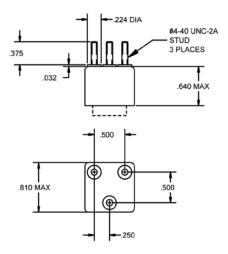
.158 ± .005 - .055 ± .005 .110 ± .005 1 .430 ± .005 .810 MAX 4 PLACES .810 MAX

MOUNTING STYLE A

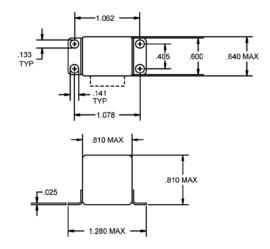
MOUNTING STYLE D

MOUNTING STYLE E

NOTE: FOR USE WITH TRACK MOUNT SYSTEM, MT-3000-003 SM-1001-003 SILICONE RUBBER GASKET NOT PROVIDED ON THIS MOUNTING STYLE.



MOUNTING STYLE G

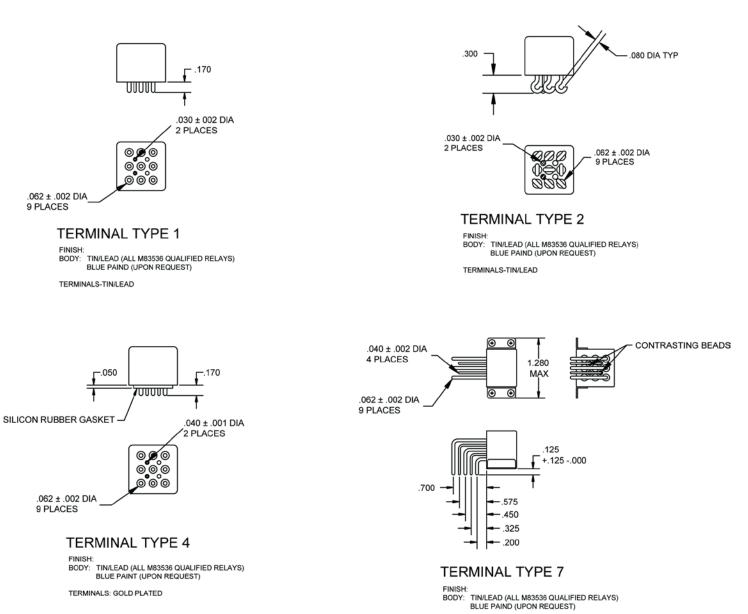


MOUNTING STYLE J

.640 MAX



TERMINAL TYPES



TERMINALS-TIN/LEAD



-.115

BLUE BEAD

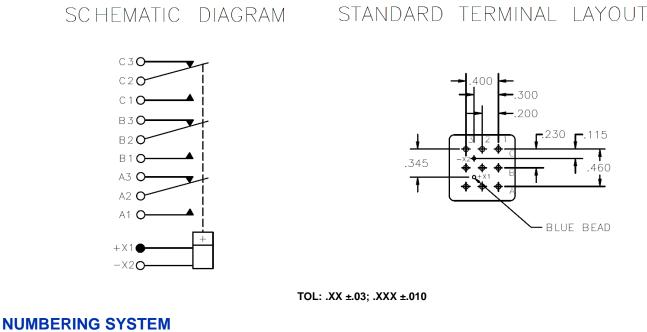
160

.300

.200

.230

DIAGRAM(S)



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

NOTES

- Standard Intermediate current test applicable. Relay can also switch low level load while switching any of the other rated loads on 1. adjacent contacts.
- 2. Inductive load life, 10,000 cycles.
- Low level endurance test: contact load of 10 to 50 millivolt, 10 to 50 microamp, 100 Ohm max. contact resistance. 3.
- Refer to MIL-PRF-6106 for details. 4
- "N," "R," & "V" coil have back EMF suppression to 42 volts maximum. 5.
- 500 Vrms with silicone gasket compressed, all other conditions 250 Vrms coil to case, 350 Vrms all other points. 6.
- 7. Applicable to Type "N," "R" & "V" coils.
- Reference MIL-PRF-6106 8.
- Relay will not operate, but will not be damaged by application of reverse polarity to coil. 9.

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