



A COMPANY OF STPI GROUP

# EDL1 – 1 Pole

## Double Break, Magnetic Latching

### General Characteristics

No. of Poles:	1 Form Z (1PDT, DMDB)
Dimensions:	1.025" x 0.525" x 1.010" (26.0 x 13.3 x 25.7) mm
Weight:	0.09 lb. (40.9 grams)

### Switching Characteristics

Operate Time (Latch and Reset) @ +25°C:	10 ms. Max
Bounce Time:	5 ms. Max
Mechanical Life:	400,000 Cycles

### Environmental Characteristics

Temperature Range:	-70°C to +125°C
Vibration (Sinusoidal)	30g 10-3,000 Hz
Shock (any axis)	200g, 6 ms
Seal:	Hermetic (1x10 <sup>-8</sup> atm cm <sup>3</sup> /s)

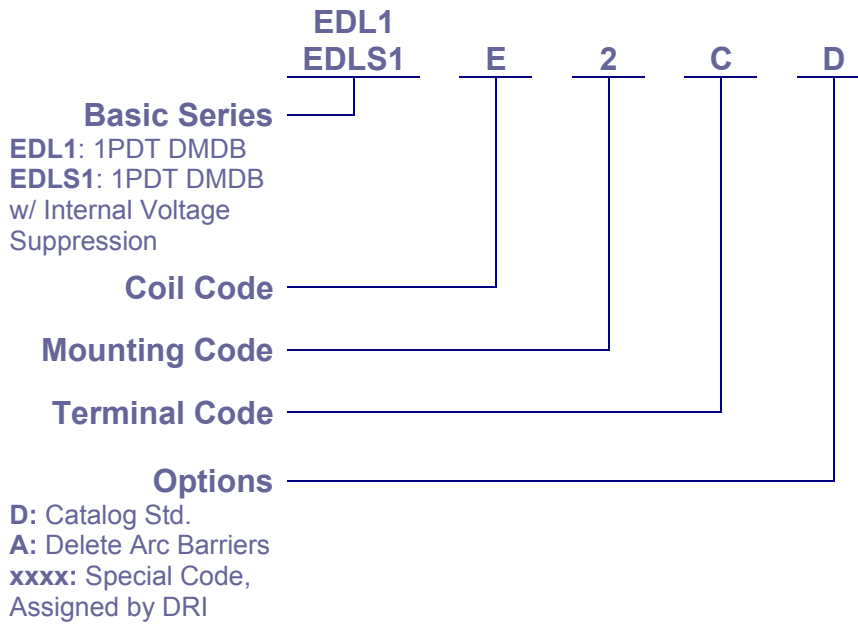
### Electrical Characteristics

Contact Voltage Drop (at rated resistive load)			
-Initial:	150 mV Max.		
-After Guaranteed Life:	175 mV Max.		
Dielectric Strength @ Sea Level	<b>Coil to Case</b>	<b>All Other Points</b>	
	-Initial @ 60 Hz:	1,000 Vrms	1,250 Vrms
	-After Life Test @ 60 Hz:	1,000 Vrms	1,000 Vrms
Insulation Resistance			
-Initial:	100 MΩ Min, @ 500 Vdc		
-After Life Tests:	50 MΩ Min, @ 500 Vdc		

### Contact Rating (Amps)

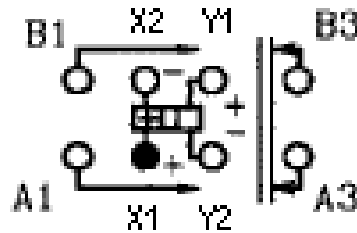
Type of Load (High Level)	Cycles x 10 <sup>3</sup>	28 Vdc	115 Vac 400 Hz 1 Phase	115 Vac 400 Hz 1 Phase	115 Vac 400 Hz 1 Phase	115 Vac 400 Hz 1 Phase
Resistive	100	15	15	9	15	9
Inductive	20	15	15	N/A	15	N/A
Inductive	10	N/A	N/A	9	N/A	9
Motor	100	10	10	5	10	5
Lamp	100	5	5	3	N/A	N/A

## Part Numbering



## Circuit Diagram

\*Y Coil Last Energized

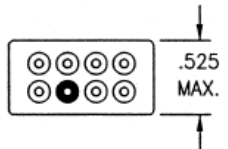
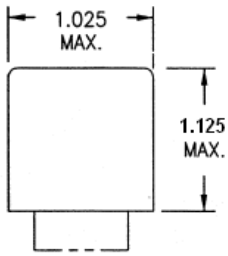


EDL1

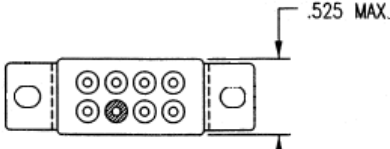
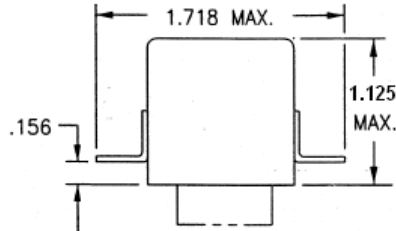
## Coil Code

COIL CODE	Vdc					
	A	B	D	E	G	J
Nominal coil voltage:	6	12	26.5	28	48	110
Maximum Latch & Reset Voltage @ +125°C:	4.5	9	18	18.7	36	70
Maximum Latch & Reset Voltage @ +25°C:	3.2	6.5	13.5	14	24	55
Coil resistance ( $\Omega \pm 10\%$ @ +25°C):	20	80	320	320	955	5000
Max. Coil Transient Suppression (EDLS1 Only) Vdc:	-42	-42	-42	-42	-100	-227

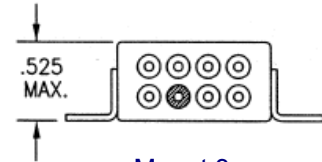
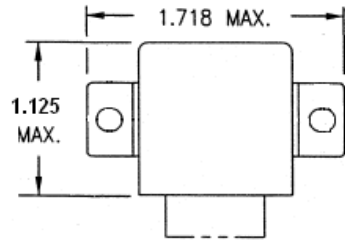
**Mounting Code**



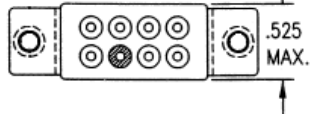
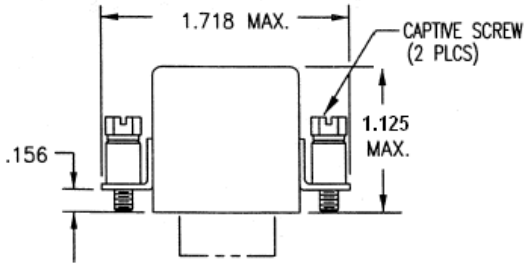
Mount 1



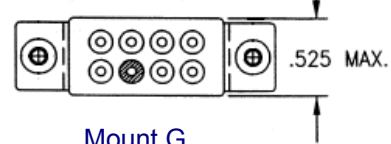
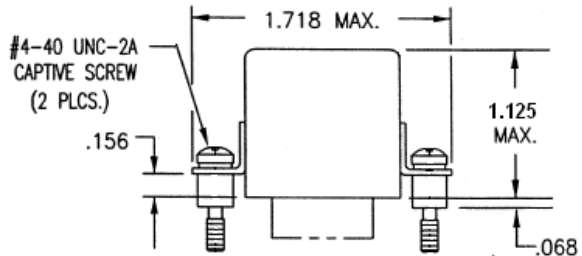
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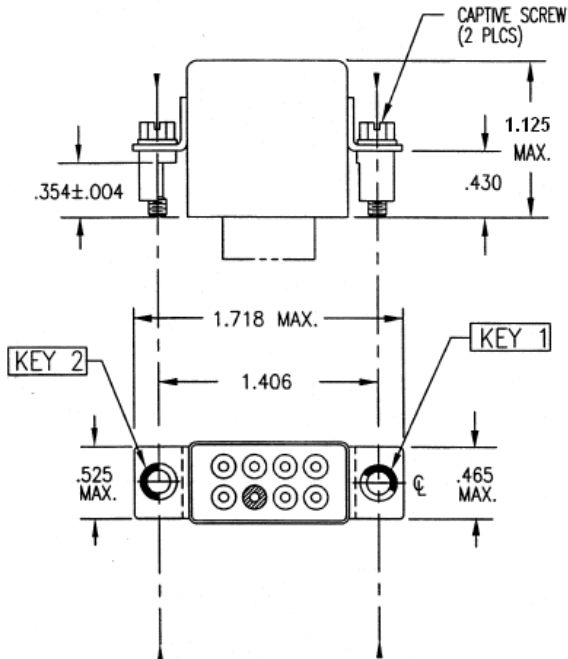
Mount 3




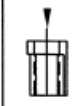





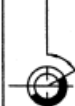


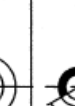

Mount 8: M3  
Mount C: #4-40 UNC



Mount G

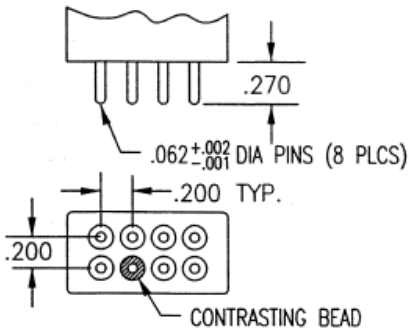


KEYING POSITIONS

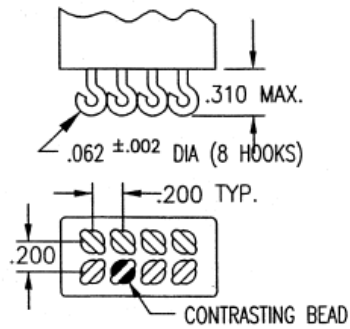
U	V	W	X	Y	Z
					
					
0°	60°	120°	180°	240°	300°

Mount A: M3  
Mount B: #4-40 UNC

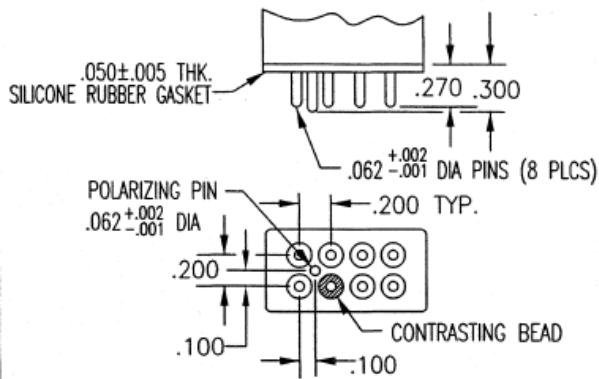
**Terminal Code**



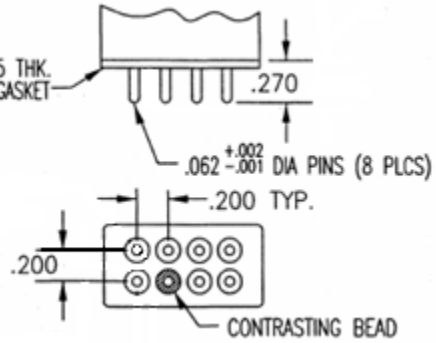
Terminal A: Tin Plated  
Terminal B: Solder Dipped



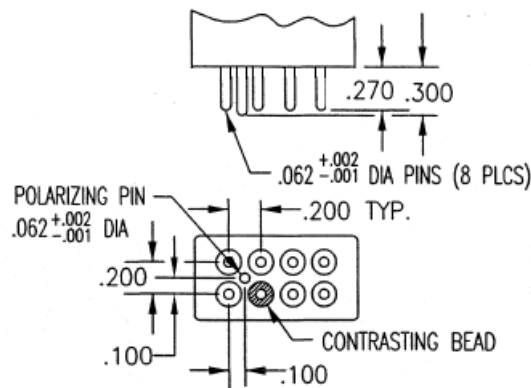
Terminal H: Tin Plated  
Terminal J: Solder Dipped



Terminal M: Gold Plated  
w/polarizing Pin



Terminal K: Gold Plated  
w/o polarizing Pin



Terminal V: Tin Plated  
w/polarizing Pin