



A COMPANY OF STPI GROUP

E210 - 2PDT / 10A

Built to MIL-PRF-83536

General Characteristics

No. of Poles:	2 Form C (2PDT)
Dimensions:	1.025" x 0.525" x 1.010" (26.0 x 13.3 x 25.7) mm
Weight:	
-Mounting Code 4:	0.12 lbs Max (54.5 grams)
-All Others:	0.10 lbs Max (46.0 grams)

Switching Characteristics

Operate Time @ +25°C	
-EA210:	20 ms. Max
-All Others:	10 ms. Max
Release Time @ +25°C	
-Mounting Code 4:	20 ms. Max
-EA210:	50 ms. Max
-All Others:	10 ms. Max
Bounce Time:	1 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 ⁻⁸ atm cm ³ /s)

Electrical Characteristics

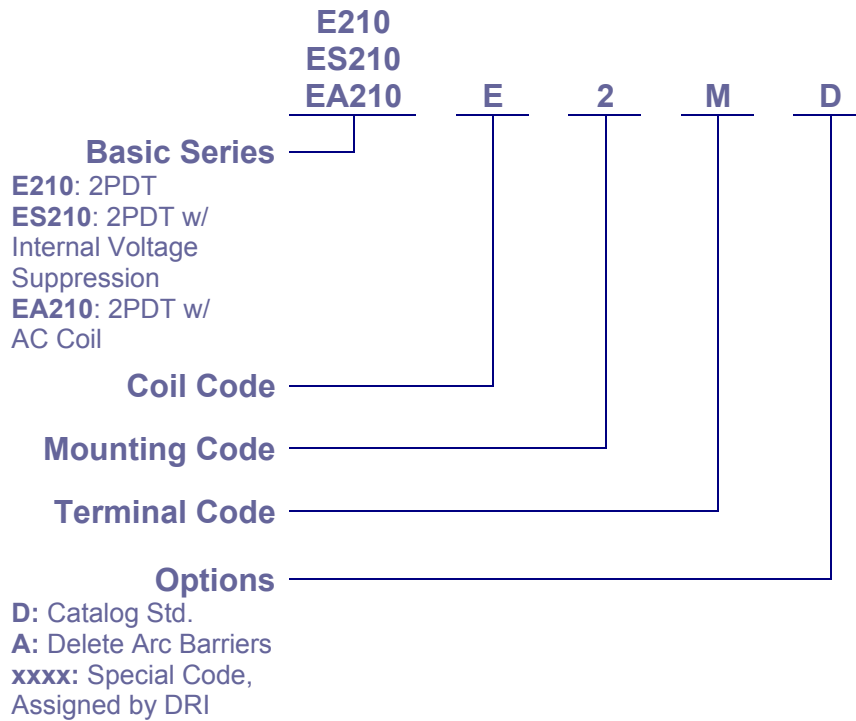
Contact Voltage Drop (at rated resistive load)		
-Initial:	150 mV Max.	
-After Guaranteed Life:	175 mV Max.	
Dielectric Strength @ Sea Level		
Mounting Code 4	Coil to Case	All Other Points
-Initial @ 60 Hz:	1,050 Vrms	1,500 Vrms
-After Life Test @ 60 Hz:	1,050 Vrms	1,250 Vrms
All Others		
-Initial @ 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 (Mounting Code 4):	100 MΩ Min, @ 500 Vdc	
-After Life Tests (All Others):	50 MΩ Min, @ 500 Vdc	
-Max. Leakage Current (Mounting Code 4):	100 μA RMS	

Contact Rating (Amps)

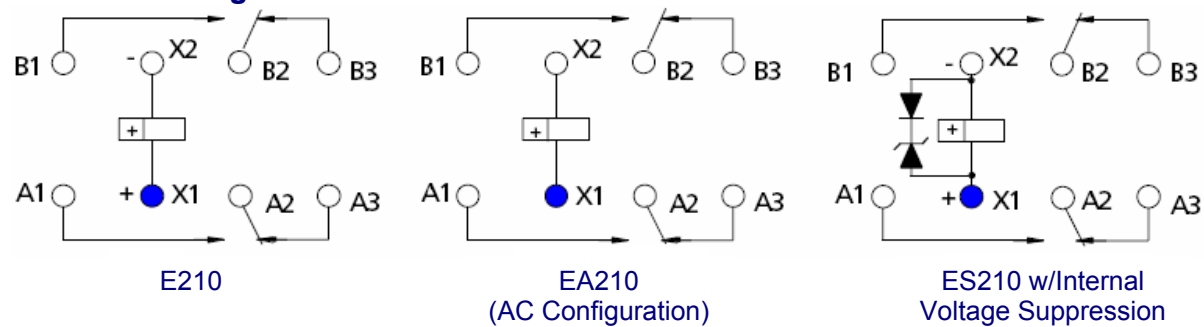
Type of Load (High Level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 Phase	115 Vac 50/60 Hz 1 Phase	115/200 Vac 400 Hz 3 Phase	115/200 Vac 50/60 Hz 3 Phase
Resistive	100	10	10	2.5	10	2.5
Inductive	20	8	8	N/A	8	N/A
Inductive	10	N/A	N/A	2.5	N/A	2.5
Motor	100	4	4	2	4	2
Lamp	100	2	2	1	N/A	N/A

Note: 115 Vac 50/60 Hz life reduced to 10,000 Cycles for all load types

Part Numbering



Circuit Diagram



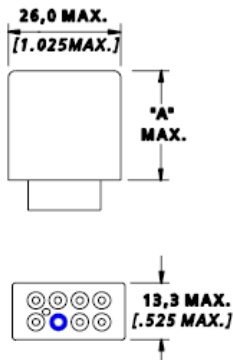
Coil Code

COIL CODE	Vdc						Vac		
	A	B	D	E	G	J	K	L	N
Nominal coil voltage:	6	12	26.5	28	48	110	28 400 Hz	115 400 Hz	115 50-400 Hz
Maximum pick-up voltage @ +25°C:	3.2	6.5	13.5	14	24	55	16.2	73	73
Maximum pick-up voltage @ +125°C:	4.5	9	18	18.7	36	70	22.4	90	90
Maximum hold voltage @ +125°C:	2.3	4.5	7	7	14	30	9	30	40
Minimum drop-out voltage @ -70°C:	0.25	0.5	1.2	1.5	2	5	1	5	5
Coil resistance ($\Omega \pm 10\%$ @ +25° C):	20	80	320	320	955	5000	-	-	-
Max Coil Transient Suppression (ES210 Only) Vdc:	-42	-42	-42	-42	-100	-227	N/A	N/A	N/A

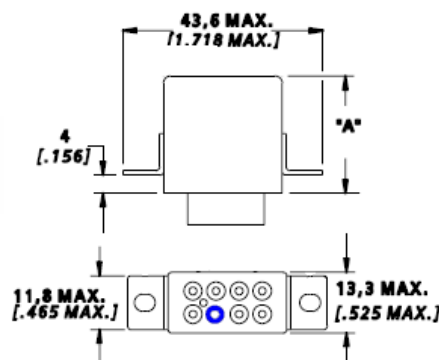
Mounting Code

"A" = 1.010 for DC Coils

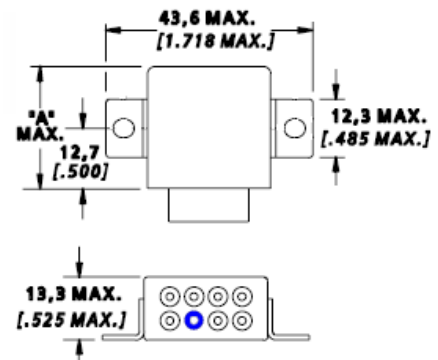
"A" = 1.125 for AC Coils



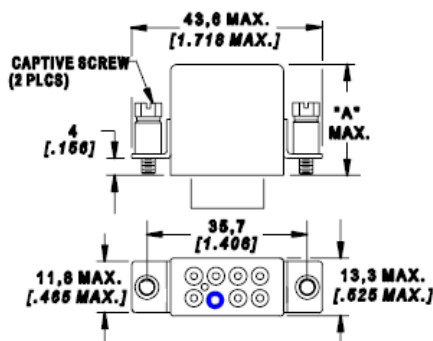
Mount 1



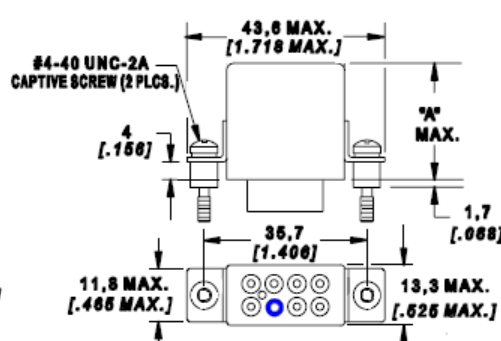
Mount 2



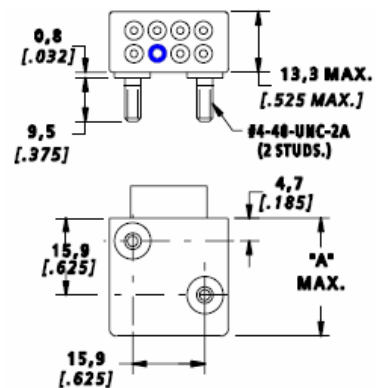
Mount 3



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

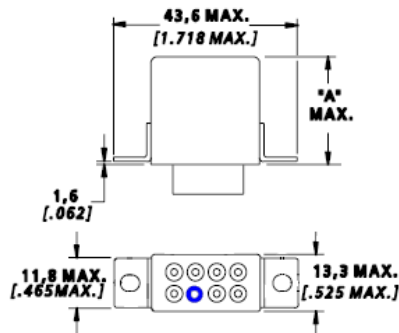


Mount G

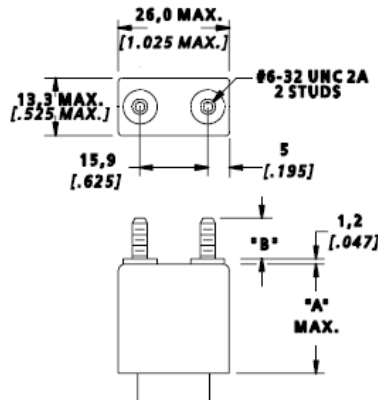


Mount D

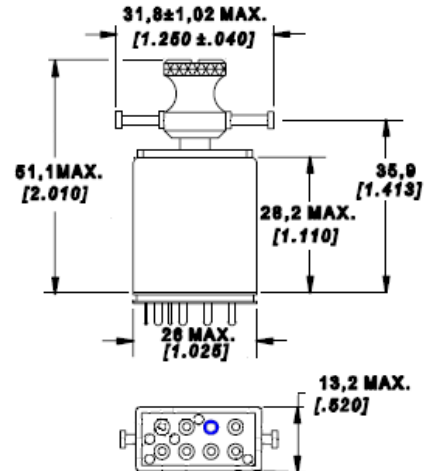
Mounting Code (Cont'd)



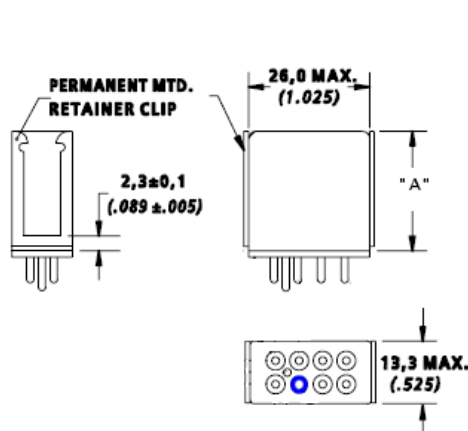
Mount N



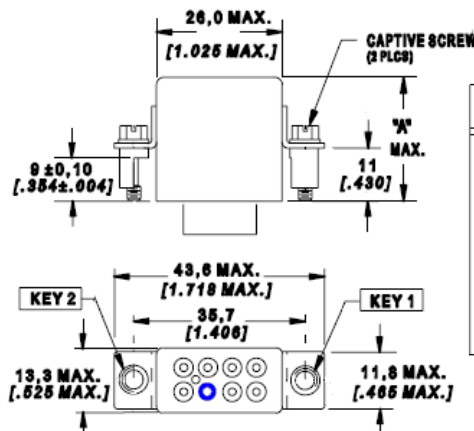
Mount M: A = 9.5mm (0.375")
Mount R: A = 6.35mm (0.250")



Mount 4: Requires Terminal M



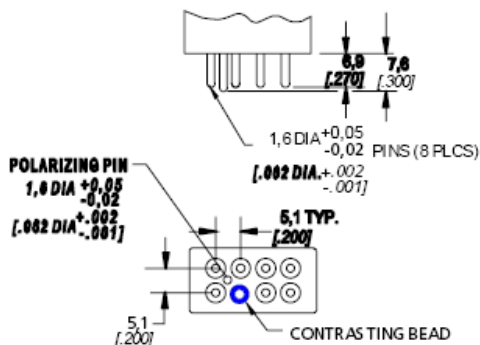
Mount 6: Requires
Terminal M, F, or G



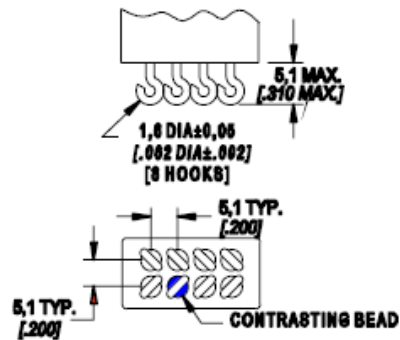
Mount A: M3
Mount B: #4-40 UNC

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

Terminal Code

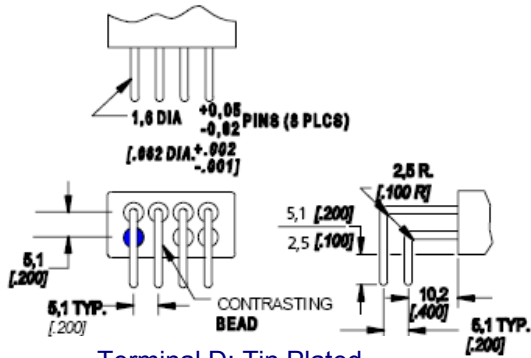


Terminal A: Tin Plated (DC)
Terminal B: Solder Dipped (DC)

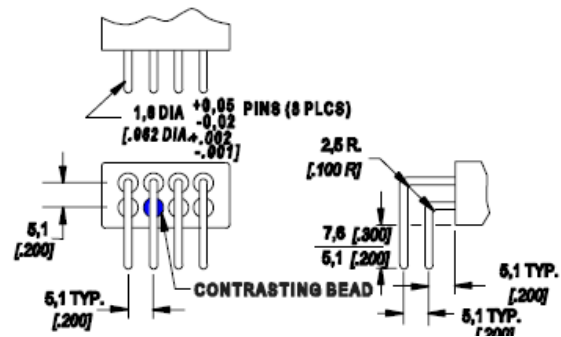


Terminal H: Tin Plated
Terminal J: Solder Dipped

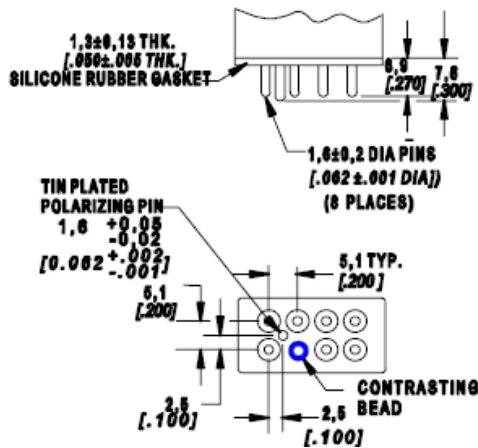
Terminal Code (Cont'd)



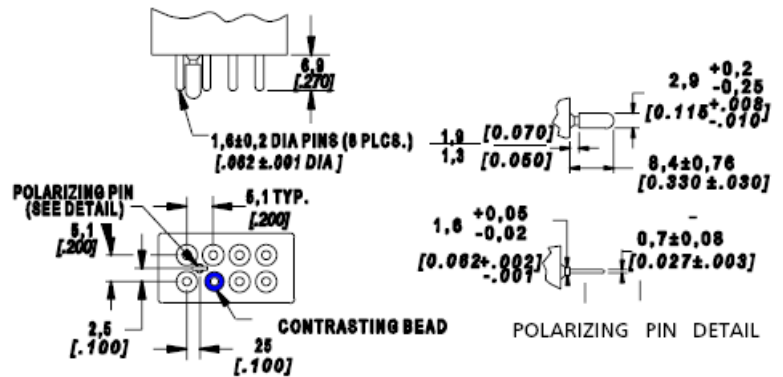
Terminal D: Tin Plated
Terminal E: Solder Dipped



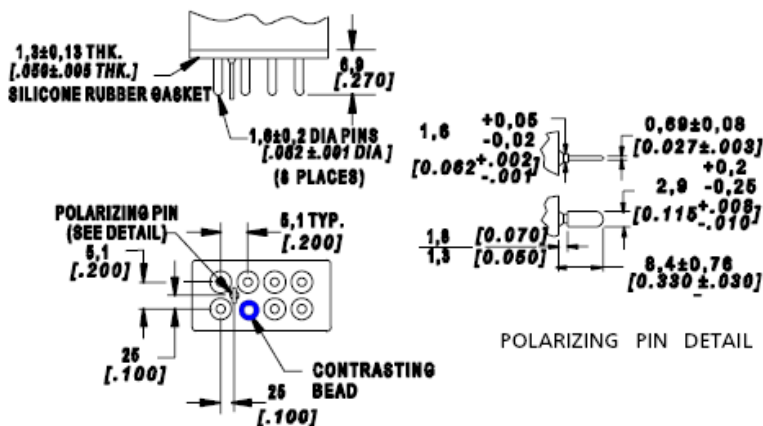
Terminal Q: Tin Plated
Terminal R: Solder Dipped



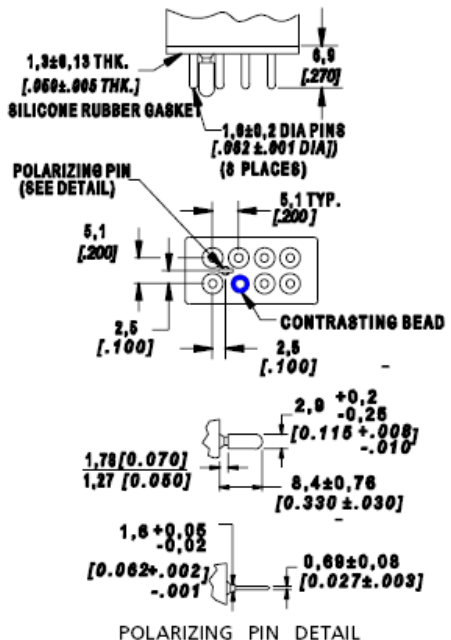
Terminal M: Gold Plated w/ Polarizing Pin (DC)
Terminal C: Gold Plated w/o Polarizing Pin (DC)



Terminal K: Tin Plated (115 Vac Only)



Terminal F: Gold Plated (28 Vac Only)



Terminal G: Gold Plated (115 Vac Only)