

E210 RELAY (2PDT/10A)

Built to MIL-PRF-83536

FEATURES

- Balanced force design provides the benefit of consistently high contact pressure, reduced bounce, and less arching leading to extended contact life
- A variety of coil options are available which allow DC control
- · Wide choice of mounting and terminal styles
- Built to MIL-PRF-83536 for severe condition applications

APPLICATIONS

- Aerospace
- · Military/Defense
- Marine
- Space

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: Up to 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 cm³/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 V_{rms} 1,500 V_{rms} After Life Test @ 60 Hz: 1,050 V_{rms} 1,250 V_{rms}

All Others

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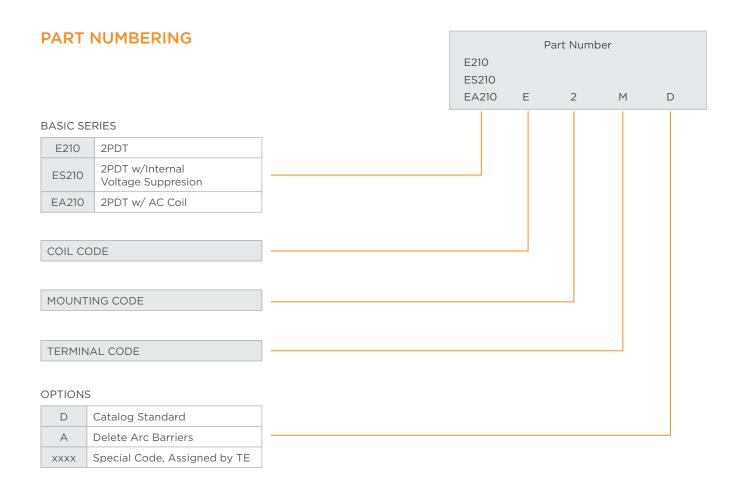
Insulation Resistance

Initial: 100 M Ω Min, @ 500 Vdc

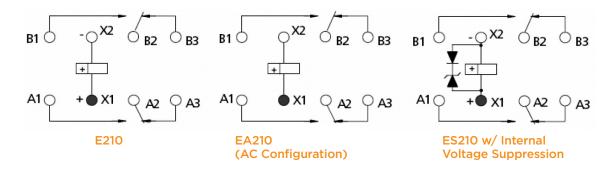
After Life Tests (Mounting Code 4): 100 M Ω Min, @ 500 Vdc After Life Tests (All Others): 50 M Ω Min, @ 500 Vdc Max. Leakage Current (Mounting Code 4): 100 μ A RMS

CONTACT RATING (AMPS)

Type of Load (High Level)	Cycles x10 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

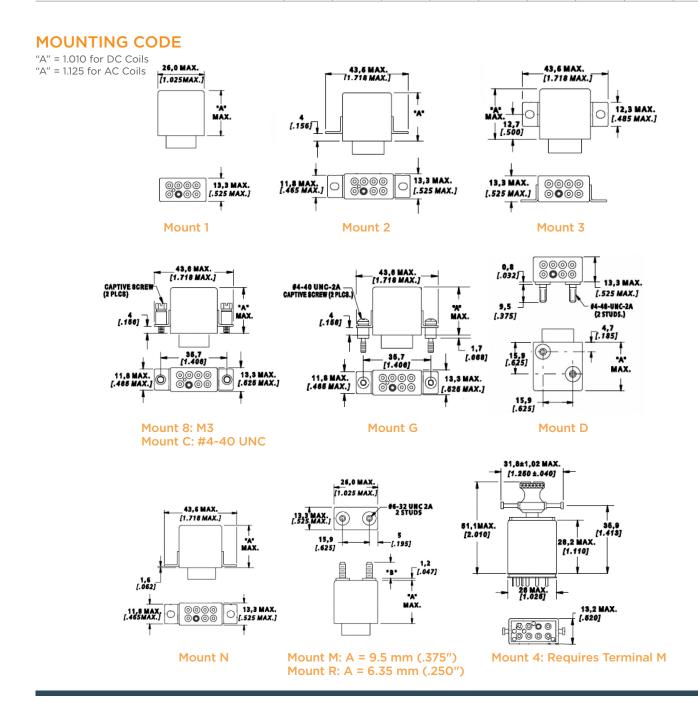


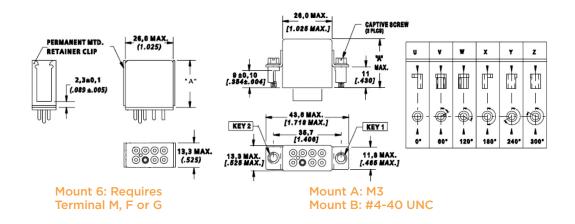
CIRCUIT DIAGRAM



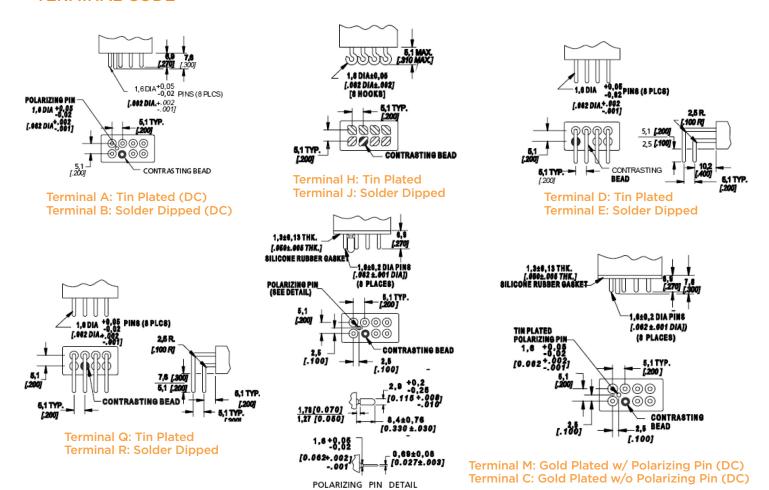
COIL CODE

Coil Code	Vdc								
Coll Code	Α	В	D	Е	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 (Ω ± 10% @ +25°C)	20	80	320	320	955	5000	_	_	_
Maximum Coil Transient Suppression (ES210 Only) Vdc	-42	-42	-42	-42	-100	-227	N/A	N/A	N/A

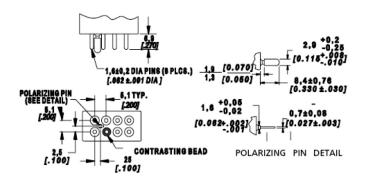




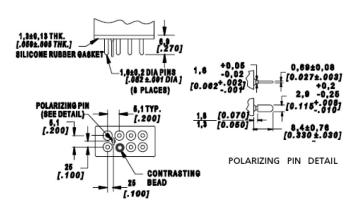
TERMINAL CODE



Terminal G: Gold Plated (115 Vac)



Terminal K: Tin Plated (115 Vac Only)



Terminal F: Gold Plated (28 Vac Only)

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