

E215 RELAY (2PDT/15A)

Built to MIL-PRF-83536

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
EA215: 20 ms. Max
All Others: 10 ms. Max
- Release Time @ +25°C
Mounting Code 4: 20 ms. Max
EA215: 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 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		
Initial @ 60 Hz:	1,000 V _{rms}	1,250 V _{rms}
After Life Test @ 60 Hz:	1,000 V _{rms}	1,000 V _{rms}
- 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

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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	15	15	3.75	15	3.75
Inductive	20	10	10	N/A	10	N/A
Inductive	10	N/A	N/A	3.75	N/A	3.75
Motor	100	6	6	3	6	3
Lamp	100	3	3	1.5	N/A	N/A

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

PART NUMBERING

BASIC SERIES

E215	2PDT
ES215	2PDT w/ Standard Internal Voltage Suppression
EA215	2PDT w/ AC Coil

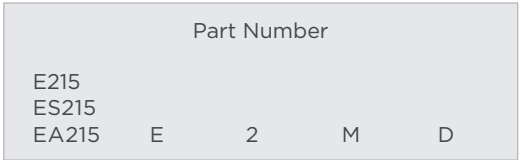
COIL CODE

MOUNTING CODE

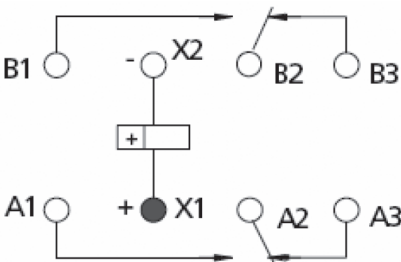
TERMINAL CODE

OPTIONS

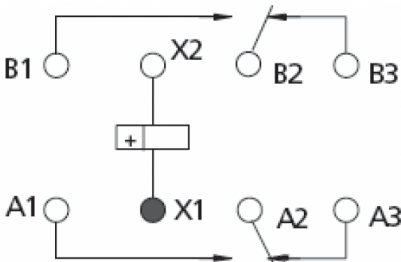
D	Catalog Standard
A	Delete Arc Barriers
xxxx	Special Code, Assigned by TE



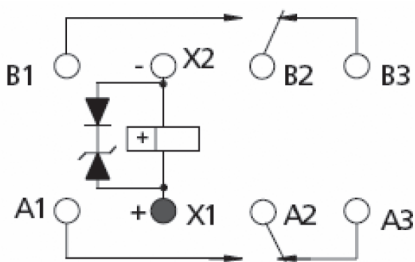
CIRCUIT DIAGRAM



E215



EA215
(AC Configuration)



ES215 w/ Internal
Voltage Suppression

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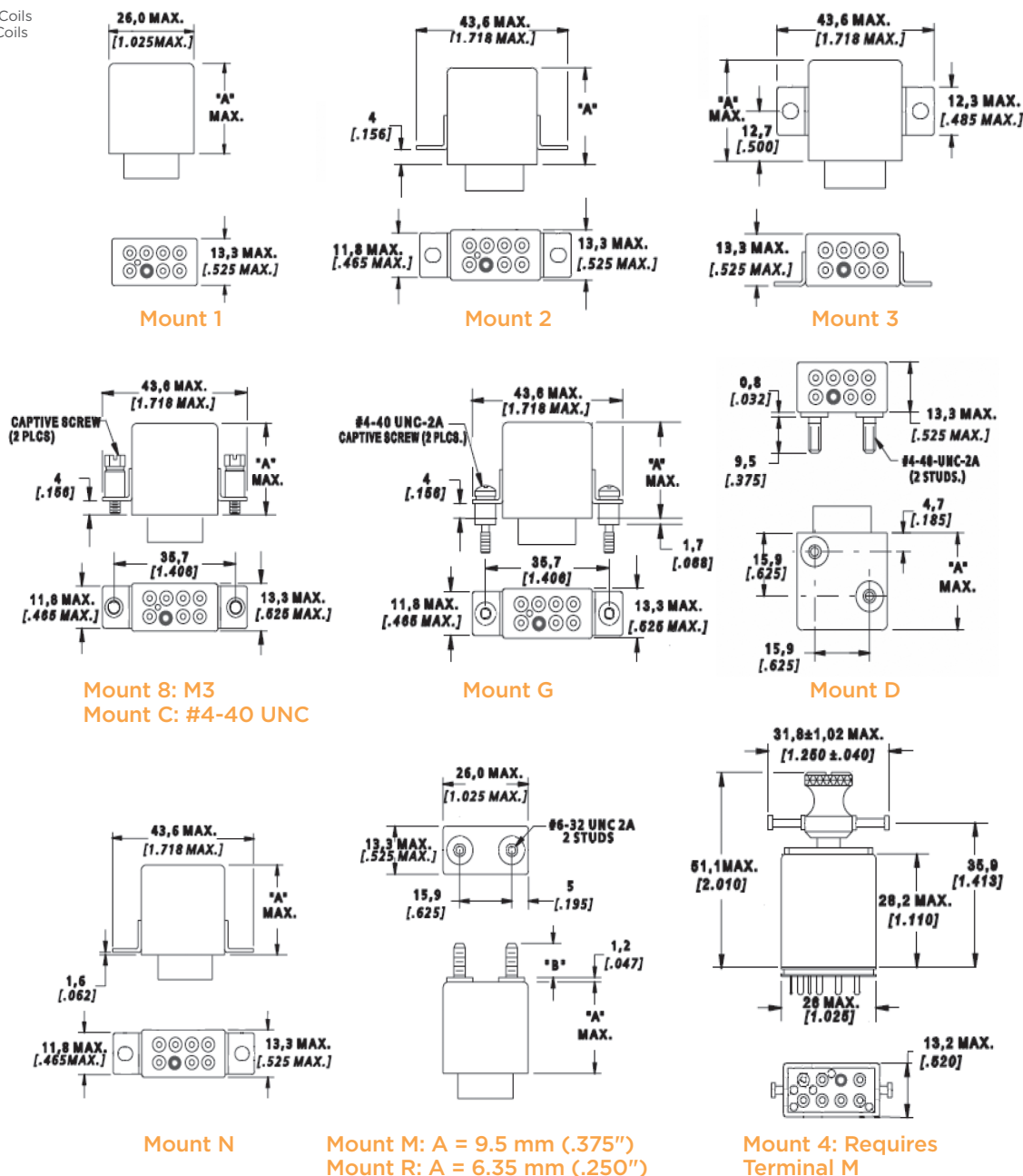
COIL CODE

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	—	—	—
Maximum Coil Transient Suppression (ES215 Only) Vdc	-42	-42	-42	-42	-100	-227	N/A	N/A	N/A

MOUNTING CODE

"A" =1.010 for DC Coils

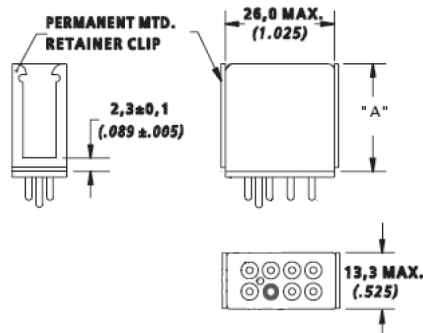
"A" =1.125 for AC Coils



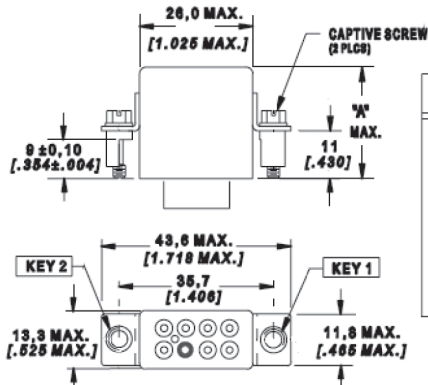
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MOUNTING CODE (CONT'D)



Mount 6: Requires Terminal M, F or G

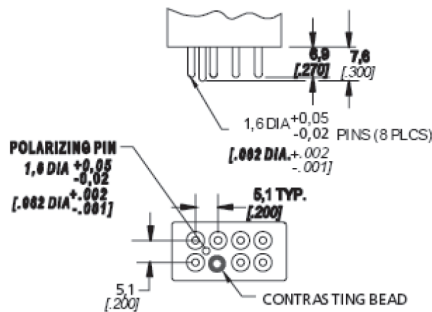


Mount A: M3
Mount B: #4-40 UNC

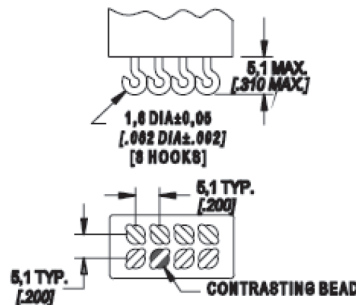
KEYING POSITIONS

U	V	W	X	Y	Z
0°	90°	120°	180°	240°	300°

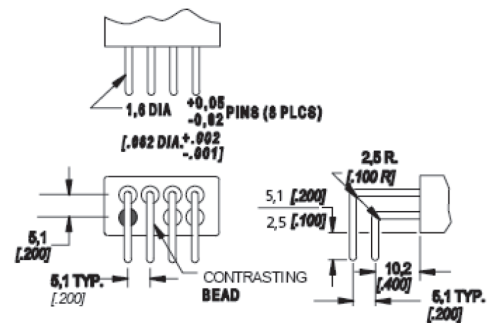
TERMINAL CODE



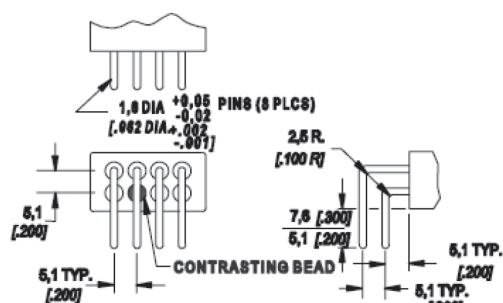
Terminal A: Tin Plated (DC)
Terminal B: Solder Dipped (DC)



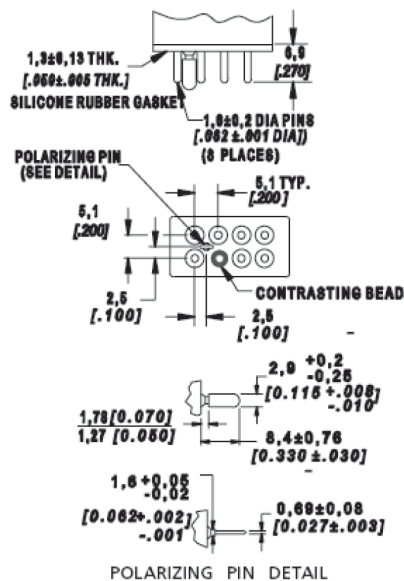
Terminal H: Tin Plated
Terminal J: Solder Dipped



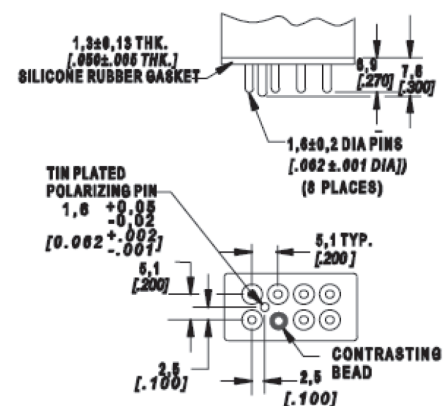
Terminal D: Tin Plated
Terminal E: Solder Dipped



Terminal Q: Tin Plated
Terminal R: Solder Dipped

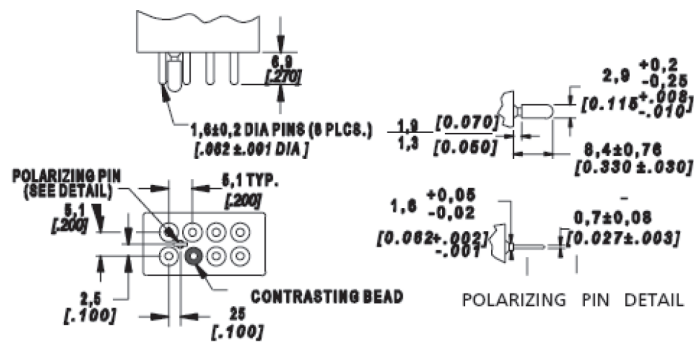


Terminal G: Gold Plated (115 Vac)

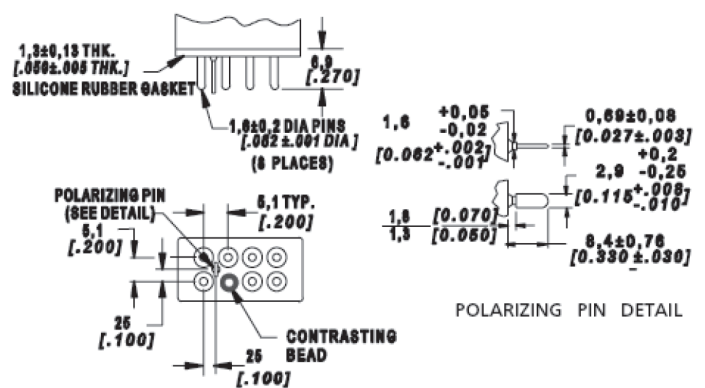


Terminal M: Gold Plated w/Polarizing Pin (DC)
Terminal C: Gold Plated w/o Polarizing Pin (DC)

TERMINAL CODE (CONT'D)



Terminal K: Tin Plated (115 Vac Only)



Terminal F: Gold Plated (28 Vac Only)

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