ETP6 RELAY (6PDT)

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 AC or DC control
- Welded hermetically sealed, non-corrosive enclosure
- Wide choice of mounting and terminal styles

APPLICATIONS

- Rail

GENERAL CHARACTERISTICS

- No. of Poles: 6 Form C (6PDT)
- Dimensions: 1.483" x 1.053" x 1.010"
  (37.7 x 26.8 x 25.7) mm
- Weight: 0.26 lb. (118 grams)

SWITCHING CHARACTERISTICS

- Operate Time @ +25°C:
  With AC Coil: 20 ms. Max
  All Others: 15 ms. Max
- Release Time @ +25°C:
  With AC Coil: 50 ms. Max
  All Others: 15 ms. Max
- Bounce Time: 1 ms. Max
- Mechanical Life: Up to 500,000 Cycles

ENVIRONMENTAL CHARACTERISTICS

- Temperature Range: -70°C to +125°C
- Vibration (Sinusoidal): 20g 10-2,000 Hz
- Shock (Any Axis): 50g, 6-9 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

	Coil to Case	All Other Points
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: 50 MΩ Min, @ 500 Vdc

ETP6 Relay (6PDT)

CONTACT RATING (AMPS)

Type of Load (High Level)	Cycles x10³	28 Vdc	115 Vac 400 Hz 1 Phase
Resistive	2,000	2.5	1.3
Inductive	2,000	1.5	0.6

COIL CODE

Coil Code	Vdc									Vac 50/400 Hz	
	A	V	B	R	C	F	G	H	J	N	T
Nominal Coil Voltage	6	9	12	18	24	36	48	74	110	115	220
Maximum Pick-Up Voltage @ +125°C	4.5	6.8	9	13.5	18	28.1	37.7	54	85.5	85.5	171
Minimum Hold Voltage @ +125°C	3.9	5.9	7.9	11.8	15.8	23.6	32.1	45.6	72	72	144
Minimum Drop-Out Voltage @ -40°C	0.5	0.7	1.0	1.5	2.0	3.5	4.5	6.5	10.5	10.5	21
Coil Resistance (Ω ± 10% @ +25°C)	10	22	40	90	210	350	620	1400	3200	—	—
Maximum Coil Transient Suppression (ETPS6 Only) Vdc	-48	-48	-48	-48	-48	-122	-122	-227	-227	N/A	N/A

PART NUMBERING

Part Number: ETP6 / ETPS6 F 2 C D

BASIC SERIES

ETP6 ETPS6	6PDT 6PDT w/Internal Voltage Suppression

COIL CODE

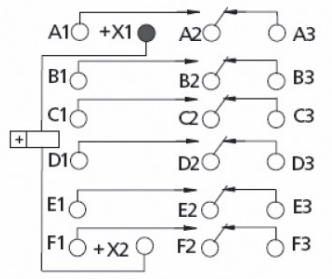
MOUNTING CODE

TERMINAL CODE

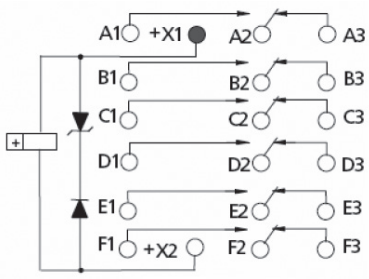
OPTIONS

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

CIRCUIT DIAGRAM

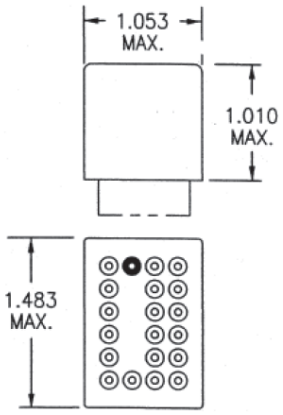


ETP6

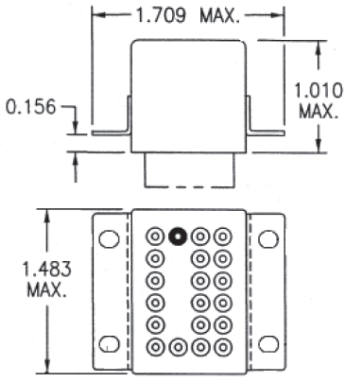


ETPS6 Optional Internal Voltage Suppressor

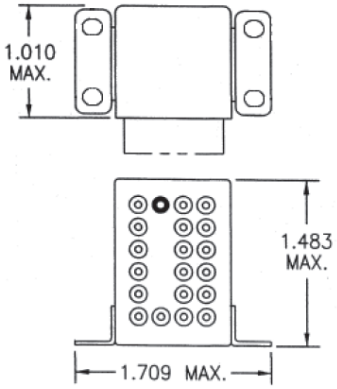
MOUNTING CODE



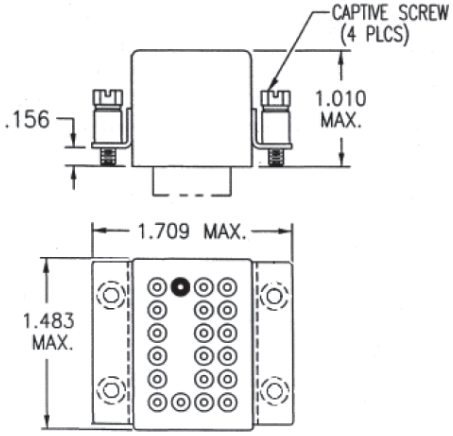
Mount 1



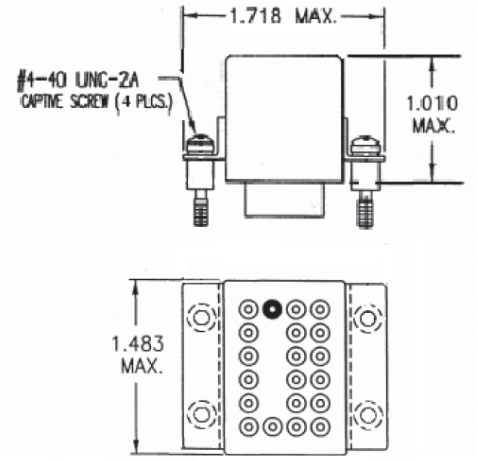
Mount 2



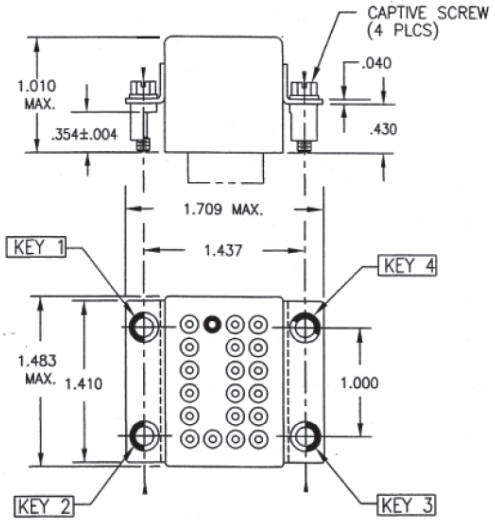
Mount 3



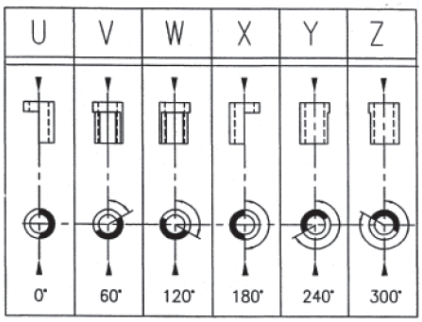
Mount 8: M3
Mount C: #4-40 UNC



Mount G

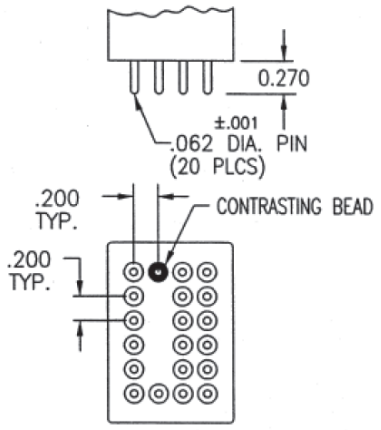


Mount N: M3
Mount P: #4-40 UNC

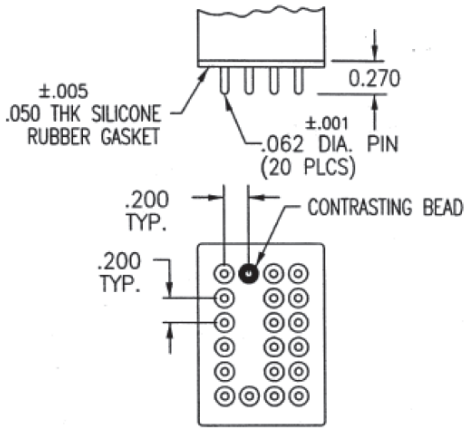


KEYING POSITIONS

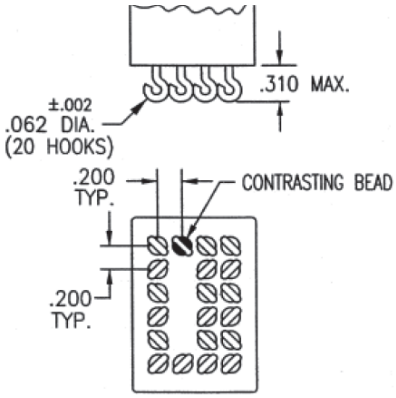
TERMINAL CODE



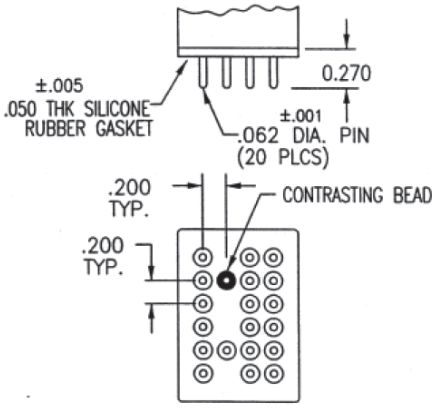
Terminal A: Tin Plated
Terminal B: Solder Dipped



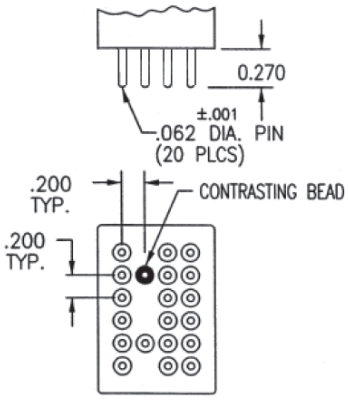
Terminal C: Gold Plated (DC)



Terminal H: Tin Plated
Terminal J: Solder Dipped



Terminal K: Gold Plated (AC)



Terminal L: Tin Plated (AC)

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