

## General Specifications

**Temperature Rating** — -70°C TO + 125°C

Altitude — 300,000 Feet

#### Shock\* —

D

С

В

А

Z, Y, & X Enclosures — 200 g for 6 mS W & M Enclosures (Stud Mtg.) — 100 g for 6 mS

### Vibration, Sinusoidal\* —

Z, Y, & X Enclosures — 30 g 33-3000Hz W & M Enclosures (Stud Mtg.) — 20 g 33-3000Hz

#### Vibration, Random\* —

Z, Y, & X Enclosures — 0.4 g<sup>2</sup>/Hz 50-2000Hz W & M Enclosures (Stud Mtg.) — 0.2 g<sup>2</sup>/Hz 50-2000Hz

### Dielectric Strength —

At Sea Level —

All circuits to ground and circuit to circuit — 1250 V rms Coil to ground — 1000 V rms At 80,000 Feet — 350 V rms

### Insulation Resistance —

Initial (500 VDC) — 100 M $\Omega$  Min. After Life or Environmental Tests — 50 M $\Omega$  Min.

# Operate Time at Nominal Voltage —

DC Relays — 10 ms or less AC Relays — 15 ms or less

# Release Time at Nominal Voltage —

DC Relays — 10 ms or less AC Relays — 50 ms or less

\* Max. contact opening under vibration or shock 10 microseconds

### Coil Data

Coil Code	Nominal Voltages	Freq. Hz	DC Res. AC Amps (B)	Over Temperature Range			
				Pickup or Below Volts	Dropout or Above Volts	Must Hold Voltage (C)	
1	6	DC	20 Ω	4.5	0.3	2.5	
2	12	DC	80 Ω	9.0	0.75	4.5	
3	28	DC	320 Ω	18.0	1.5	7.0	
4 (A)	28	DC	320 Ω	18.0	1.5	7.0	
5	48	DC	920 Ω	32.0	2.5	14.0	
6	28	400Hz	180 mA	22.0	1.25	10.0	
7	28	50/400Hz	100 mA	22.0	1.25	10.0	
8	115	400 Hz	40 mA	90.0	5.0	40.0	
9	115	50/400 Hz	30 mA	95.0	5.0	40.0	

A. CODE 4 COILS HAVE BACK EMF SUPPRESSION TO 42 VOLTS MAX.
B. DC COIL RESISTANCE ± 10% AT 25°C; AC COIL MAX. CURRENT AT NOMINAL VOLTAGE.
C. RELAY WILL STAY IN PICKED-UP STATE DOWN TO MUST HOLD VOLTAGES SHOWN.

D. MAX. OVERVOLTAGE: 6 & 12 VDC COILS 120% OF NOMINAL; ALL OTHERS 110% OF NOMINAL. E. COILS AVAILABLE FOR OTHER VOLTAGES AND FOR AC 50/60HZ.

NOTE: Only DC Coil Models are QPL Approved.

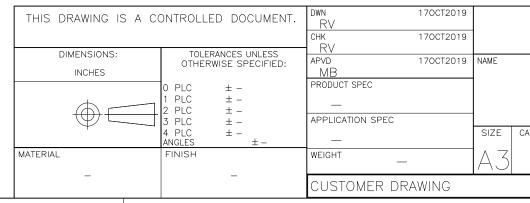


### Contact Rating — Amperes Ratings Are Continuous Duty

Type of Load	Life (Min.) Cycles x 10 <sup>3</sup>	28 VDC	115VAC 400Hz	115VAC 60Hz*
Resistive	50	25	25	10
Inductive	10	12		10
Inductive	20		15	
Motor	50	10	10	8
Lamp	50	5	5	

\*60 Hz loads rated for 10,000 operations

Overload Current — 50 AMPS DC, 80 AMPS 400Hz Rupture Current — 60 AMPS DC, 100 AMPS 400Hz Contact Make Bounce —1 MILLISECOND AT NOMINAL VOLTAGE Max. Contact Drop at 25 Amps — INITIAL 0.150 VOLTS End of Life — 0.175 VOLTS



The Series Fe is a polarized stable design flux from a pe magnet prov armature hole the deactivat its flux path is combined wi in the operate

INITIAL DRAWN

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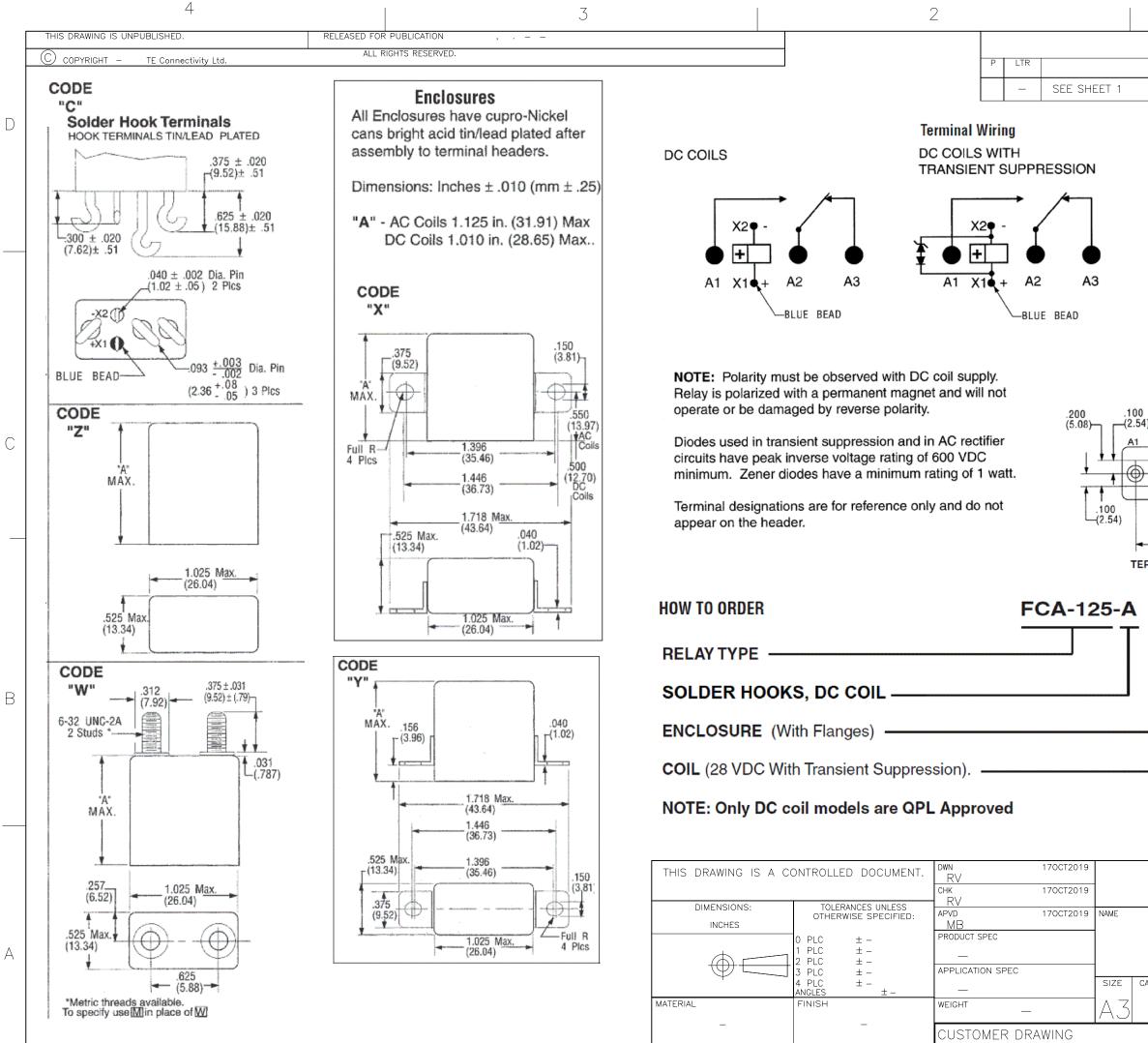
Hermetically Sealed

**Product Facts** 

- All Welded Construction
- Balanced Force
- Permanent Magnet Drive
- Contacts Silver Cadmium Oxide with Gold Plating
- Coils for DC, 50 to 400Hz and 400Hz AC
- Weight 1.6 ounces max. (45.4 grams)
- Qualified to M6106/19, M83536/36, /37

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1470-19 (1/15)

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## **Mouser Electronics**

Authorized Distributor

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