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General Specifications

Temperature Rating -70°C TO + 125°C **Altitude** — 300,000 Feet

Shock* —

D

С

B

А

Z & Y Enclosures — 200 g for 6 mS W, X & M Enclosures — 100 g for 6 mS

Vibration, Sinusoidal* —

Z & Y Enclosures — 0.12 DA 10 to 70Hz 30 g 70 to 3000Hz W, X & M Enclosures — 0.12 DA 10 to 57Hz 20 g 57 to 3000Hz

Vibration, Random* — Z & Y Enclosures —

0.4 g²/Hz 50-2000Hz W, X & M Enclosures — 0.2 g²/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 Ω Min. After Life or Environmental Tests — 50 M Ω Min.

Operate Time at Nominal Voltage —

DC Relays — 15 ms or less AC Relays — 20 ms or less

Release Time at Nominal Voltage —

DC Relays — 15 ms or less AC Relays — 50 ms or less

* Max. contact opening under vibration or shock 10 microseconds

Contact Rating — Amperes Ratings Are Continuous Duty

Type of Load	Life (Min.) Cycles x 10 ³	28 VDC	120VAC 400Hz	120/200VAC		
Load				400Hz-3Ø	60Hz-3Ø*	
Resistive	100	10	10	10	2.5	-
Inductive	20	8	8	8	2.5	_
Motor	100	4	4	4	2.0	_
Lamp	100	2	2	2	1.0	_

*60 Hz loads rated for 10,000 operations

Overload Current — 40 AMPS DC, 60 AMPS 400Hz Rupture Current — 50 AMPS DC, 80 AMPS 400Hz Contact Make Bounce —1 MILLISECOND AT NOMINAL VOLTAGE Max. Contact Drop at 10 Amps — INITIAL 0.100 VOLTS End of Life — 0.125 VOLTS

Coil Data

The Series FCA-410 relay is a polarized single-side stable design, where the flux from a permanent magnet provides the armature holding force in the deactivated state, and its flux path is switched and combined with the coil flux in the operated state. This results in appreciably increased contact pressure in both states over that of a spring return nonpolar design. We manufacture 6-pole versi

INITIAL DRAWN

А

FCA-210 – Relay

FCA-412 – Relay

Available

FCA-415 – Has the sar as the FCA rated at 15 (Commercia

Coil	Nominal	Erec	DC Res.	Ονε	Over Temperature Range			
Code Voltages		Freq. Hz	AC Amps (B)	Pickup or Below Volts	Dropout or Above Volts	Must Hold Voltage (C)		
1	6	DC	18 Ω	4.5	0.3	2.5		
2	12	DC	70 Ω	9.0	0.75	4.5		
3	28	DC	290 Ω	18.0	1.5	7.0		
4 (A)	28	DC	290 Ω	18.0	1.5	7.0		
5	48	DC	865 Ω	32.0	2.5	14.0		
6	28	400Hz	225 mA	22.0	1.25	10.0		
7	28	50/400Hz	120 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.

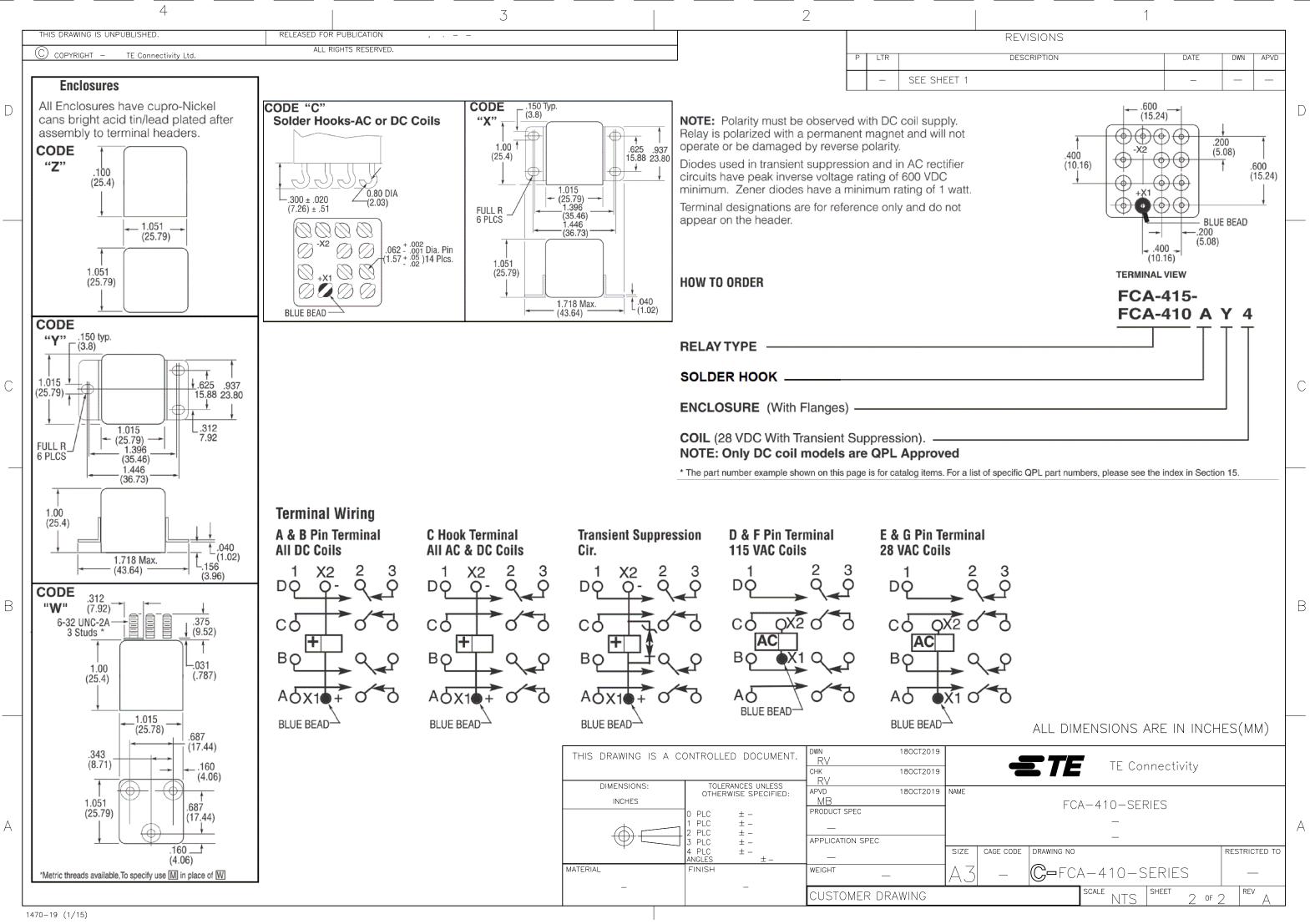
D. MAX. OVER-VOLTAGE: 6 & 12 VDC COILS 120% OF NOMINAL; ALL OTHERS 110% OF NOMINAL.

E. COILS AVAILABLE FOR OTHER VOLTAGES AND FOR AC 50/60HZ.

NOTE: Only DC Coil Models are QPL Approved.

THIS DRAWING IS A CO	ONTROLLED DOCUMENT.	DWN 240CT2019 RV	
	1	СНК 240СТ2019 RV	
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$\bigcirc \bigcirc \bigcirc$	0 PLC $\pm -$ 1 PLC $\pm -$ 2 PLC $\pm -$ 3 PLC $\pm -$ 4 PLC $\pm -$ ANGLES $\pm -$	PRODUCT SPEC APPLICATION SPEC	SIZE C.
MATERIAL	FINISH	WEIGHT	A3
-	_	CUSTOMER DRAWING	

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Mouser Electronics

Authorized Distributor

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TE Connectivity: M83536/15-018L