			REVISIONS			
Р	LTR	ECO NO.	DESCRIPTION	DATE	DWN	APVD
	А	- INIT	AL RELEASE	180CT2019	RV	MB
	В	20-006207	FCA-215 ADDED IN ATTRIBUTE PAGE 2	04MAY2020	RV	МВ

General Specifications

Temperature Rating — -70°C TO + 125°C

Altitude — 300,000 Feet

Shock* —

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 q 33-3000Hz

W & M Enclosures (Stud Mtg.) — 20 g 33-3000Hz

Vibration, Random* — Z, Y, & X Enclosures — 0.4 g²/Hz 50-2000Hz W & M Enclosures (Stud Mtg.) —

Dielectric Strength —

0.2 g²/Hz 50-2000Hz

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 — 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	Nominal Voltages	Freq. Hz	DC Res. AC Amps (B)	Over Temperature Range			
Code				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.

Contact Rating — Amperes Ratings Are Continuous Duty

Type of Load	Life (Min.) Cycles x 10 ³	28 VDC	115VAC 400Hz	115/200VAC 3Ø	
Load				400Hz	60Hz*
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

*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

The Series FCA-210 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 also

Product Facts

- Hermetically Sealed
- 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 M83536/9, /10

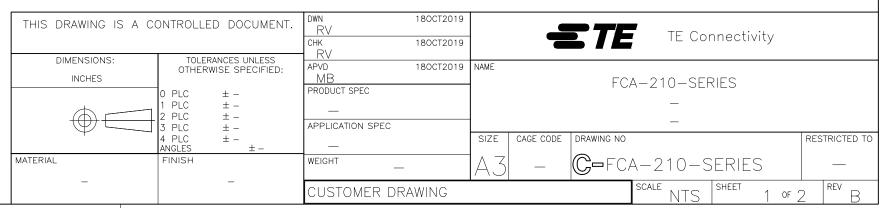
manufacture other versions of this relay:

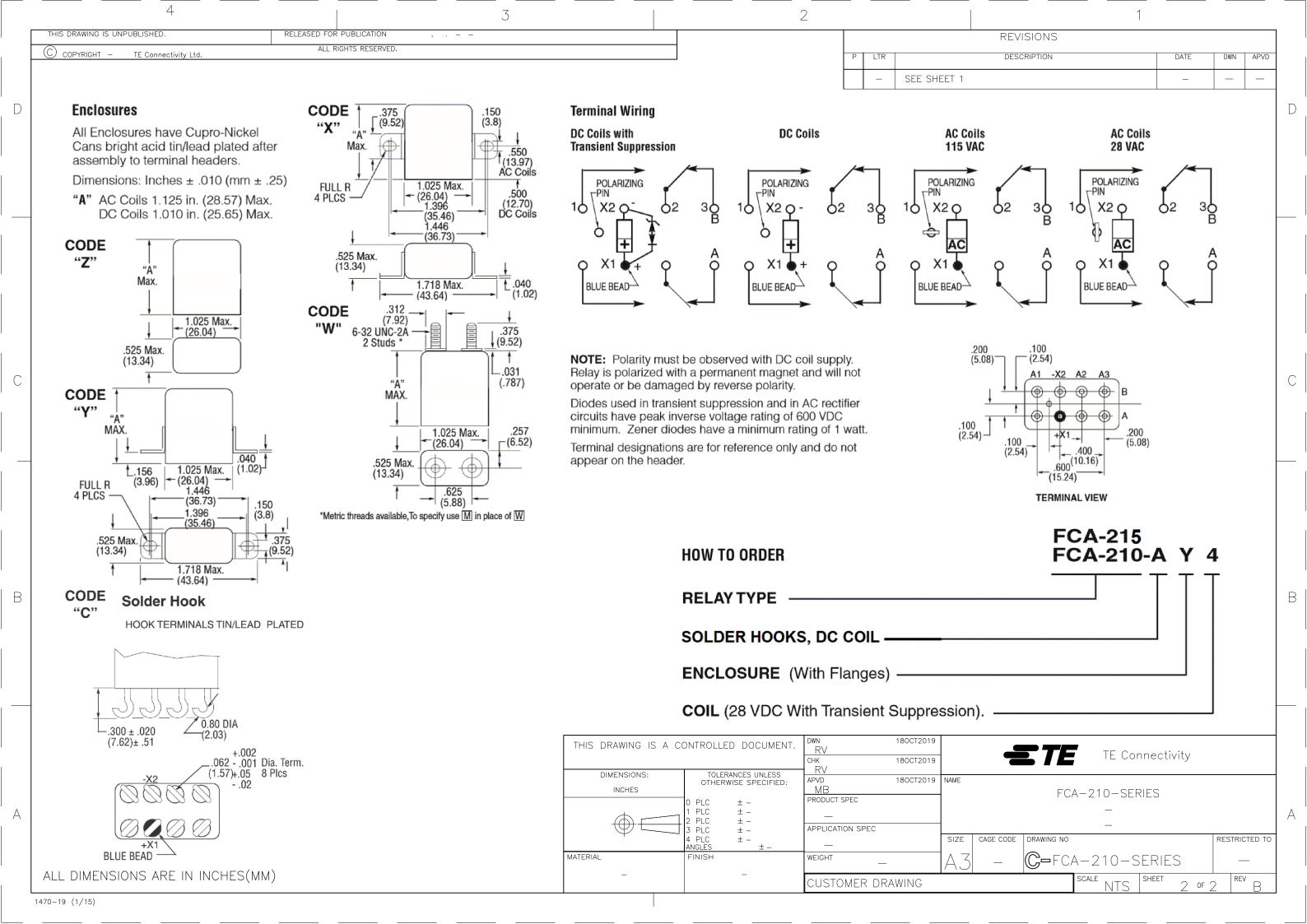
FCA-410 — 10 Ampere 4PDT Relay

FCA-610 — 10 Ampere 6 PDT Relay

Available:

FCA-215 — 15 Ampere DPDT Relay, Has the same specifications as the FCA-210 except is rated at 15 amps. (Commercial Only) В





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>TE Connectivity</u>: 5-1617784-7