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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL DRAWN	28OCT2019	RV	MB

**Specifications**

**Auxiliary Contact Data**

Contact Form 1 Form X (SPDT-NO-DM) with 1 Form C (SPDT) Auxiliary

Contact Rating in Amps (Continuous Duty)

Type of Load	Life (Min.) Cycles	28 Vdc	115 Vac 400Hz
Resistive	50,000	50	50
Inductive (L/R=5ms)	20,000	20	20
Motor	20,000	20	20
None	100,000	-	-

**Coil Data**

Coil Code	1	2	3	4(A)
Nominal Operating Voltage (Vdc)	6	12	28	28
Maximum Operating Voltage (Vdc)	7.3	14.5	29	29
Maximum Pick-Up Voltage at +125°C	4.5	9	18	18
Maximum Pick-Up Voltage at +125°C, continuous current test (Vdc)	5.7	11.25	22.5	22.5
Drop-Out Voltage at OTR	0.3 - 2.5	0.75 - 4.5	1.5 - 7.0	1.5 - 7.0
Maximum Coil Current at +25°C (mA)	.50	.26	.15	.15
Back EMF Suppressed to (Vdc) (max)	N/A	N/A	N/A	-42
Coil Resistance ±10%	18Ω	70Ω	290Ω	290Ω

**Specifications**

**Electrical Data**

Initial Insulation Resistance (note 1) 100 megohms, minimum, at 500Vdc, between each pin and case

Insulation Resistance After Life or Environmental Test (note 1) 50 megohms, minimum, at 500Vdc, between each pin and case

**Dielectric Strength At Sea Level**

Contacts to Ground and Between Contacts 1,250Vrms, 60 Hz.

Coil to Ground 1,000Vrms, 60 Hz.

Dielectric Strength at 80,000 ft (25,000m), All Points (note 4) 500Vrms, 60 Hz

**Environmental Data**

Ambient Temperature Range, Operating -70°C to +125°C

Altitude 300,000 feet

Shock Resistance 50 G's, 11 ms.

Vibration Resistance, Sinusoidal 20 G's, 75-3000Hz.

**Mechanical Data**

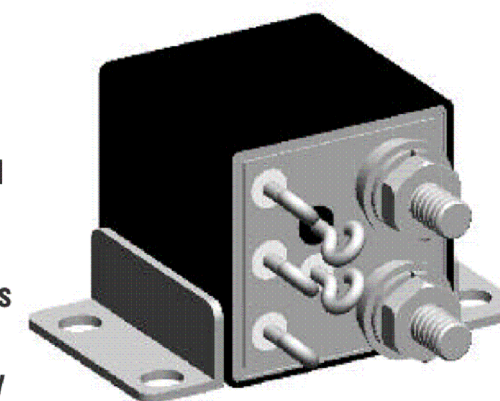
Approximate Weight 3.2 oz. (90g) Max.

**NOTES**

1. All wired terminals must be connected together during this test. Dielectric withstanding voltage and insulation resistance are measured between all mutually insulated wired terminals and between all these terminals and case.

**Product Facts**

- Non-latching relay
- Balanced force design
- Corrosion protected metal enclosure
- All welded hermetically sealed enclosure occupies about 1 in<sup>3</sup> (16.4 cm<sup>3</sup>)
- 1 Form C (SPDT) auxiliary contact
- 6, 12 and 28 Vdc coils
- Weight: 90 grams
- Designed and built in accordance to MIL-PRF-6106



The FCAC-150 series 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 non-polar design.

A 1 form C (SPDT) auxiliary contact set rated 2 amps is available.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RV 28OCT2019	TE Connectivity		
		CHK RV 28OCT2019			
DIMENSIONS: INCHES 		APVD MB 28OCT2019	NAME C-FCAC-150-SERIES		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± -		PRODUCT SPEC -	SIZE A3		
MATERIAL -		FINISH -	APPLICATION SPEC -	CAGE CODE -	DRAWING NO C-FCAC-150-SERIES
		WEIGHT -	RESTRICTED TO -		
CUSTOMER DRAWING			SCALE NTS	SHEET 1 OF 2	REV A

