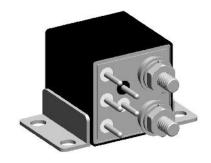
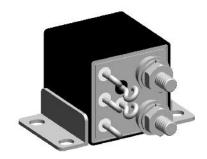


FCAC-150 Series, 50 Amps, 1PST/NO (DM) with 1PDT Auxiliary Contacts

Product Facts

- Non-latching relay
- Balanced force design
- **■** Corrosion protected metal enclosure
- All welded hermetically sealed enclosure occupies about 1 in3 (16.4 cm3)
- 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.

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	Life (Min.)		115 Vac		
Load	Cycles	28 Vdc	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	



FCAC-150 Series, 50 Amps, 1PST/NO (DM) with 1PDT Auxiliary Contacts (Continued)

Specifications

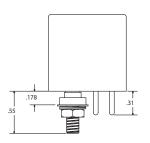
opeometrical			
Electrical Data			
Initial Insulation Resistance (note 1)	100 megohms, minimum, at 500Vdc, between each pin and case		
Insulation Resistance After Life or Environmental Test (note 1)	50 megohms, minimum, at 500Vdc, between each pin and case		
Dielectric Strength At Sea Level			
Contacts 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.		

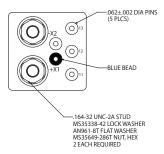
NOTES

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.

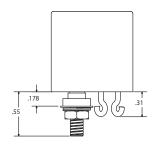
Terminals

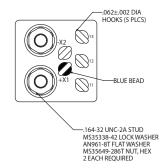
CODE "B" Solder Pin Terminals Tin/Lead Plated



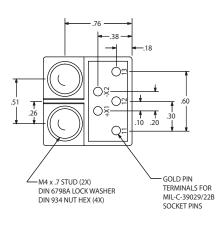


CODE "C" Solder Hook Terminals Tin/Lead Plated





CODE "K" Terminal Shield



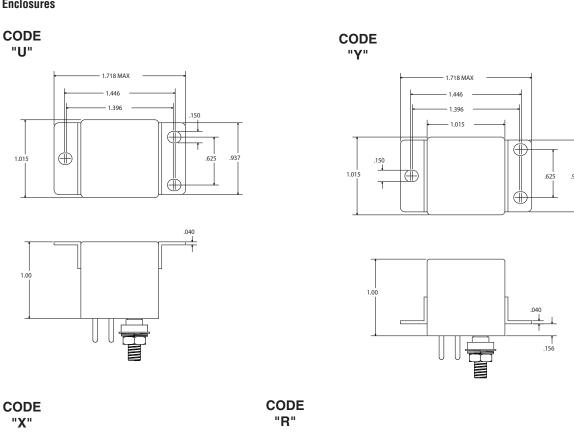


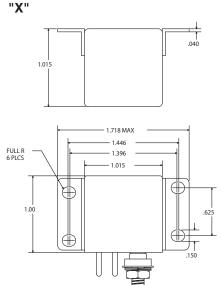
FCAC-150 Series, 50 Amps, 1PST/NO (DM) with 1PDT Auxiliary Contacts (Continued)

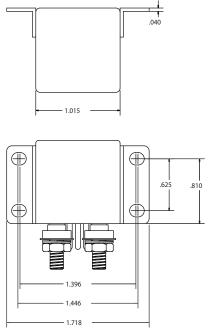
Outline Dimensions

The standard terminal types and enclosures are illustrated below with dimensions in inches ± 0.010 and (millimeters ±0.25).

Enclosures





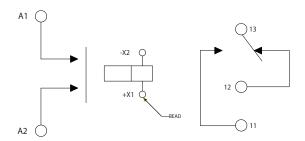




FCAC-150 Series, 50 Amps, 1PST/NO (DM) with 1PDT Auxiliary Contacts (Continued)

Terminal Wiring

DC Coils

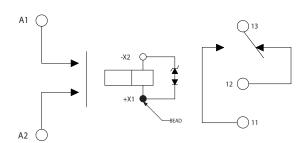


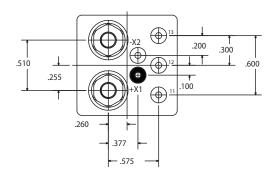
NOTE: Polarity must be observed with DC coil supply. Relay is polarized with a permanent magnet and will not operate or be damaged by reverse polarity.

Diodes used in transient suppression and in AC rectifier circuits have peak inverse voltage rating of 600 VDC minimum. Zener diodes have a minimum rating of 1 watt.

Terminal designations are for reference only and do not appear on the header.

DC Coils with Transient Suppression





TERMINAL VIEW

How to Order

