

Introducing

CII FCA-150 Series Relay 50 Amps, 1PST/NO (DM)

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





PERFORMANCE DATA

Specifications

Contact Data						
Contact Form	FCA-150: 1 Form X (SPST-NO-DM) FCAC-150: 1Form X (SPST-NO-DM) with 1 Form C (SPDT) Auxiliary Contacts					
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	-	_			
Overload Current (Resistive)	200 A, 50 cycles					
Max. Contact Drop at 10A	Initial 150mV; After Life 175mV					
Operate Time at Nominal Voltage	15ms					
Release Time	15ms					
Bounce Time	1ms					
Coil Data						
Coil Code	1	2	3	4		
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 +125°C	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)	N/A	N/A	N/A	-42		
Coil Resistance	18Ω	70Ω	290Ω	290Ω		
Electrical Data						
Initial Insulation Resistance (note 1)	100 megohms, minimum, at 500Vdc, between each pin and case					

100 megohms, minimum, at 500Vdc, between each pin and case		
50 megohms, minimum, at 500Vdc, between each pin and case		
1,250Vrms, 60 Hz.		
1,000Vrms, 60 Hz.		
500Vrms, 60 Hz		
-70°C to +125°C		
300,000 feet		
50 G's, 11 ms.		
20 G's, 75-3000Hz.		
	50 megohms, minimum, at 500Vdc, between each pin and case 1,250Vrms, 60 Hz. 1,000Vrms, 60 Hz. 500Vrms, 60 Hz -70°C to +125°C 300,000 feet 50 G's, 11 ms.	

3.2 oz. (90g) Max.

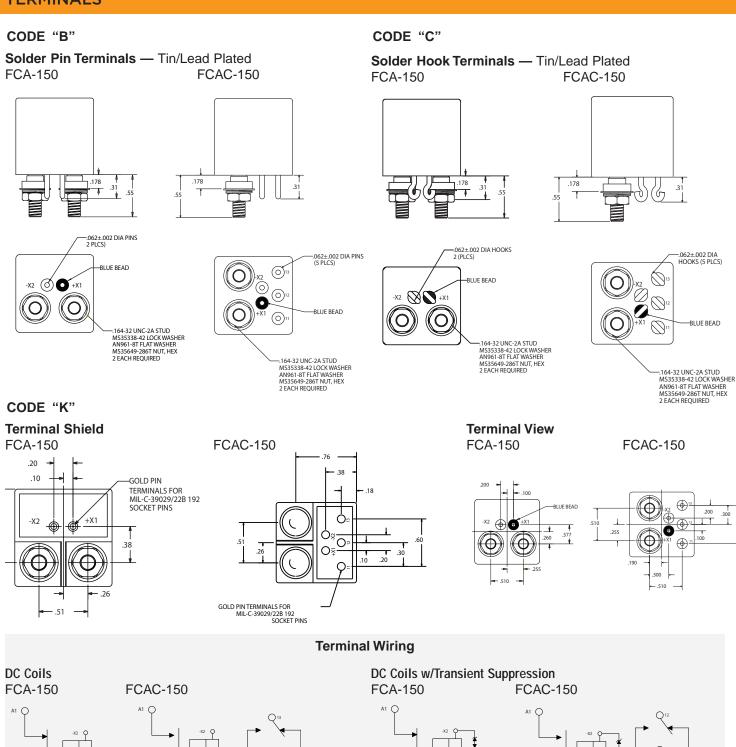
NOTES

Approximate Weight

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



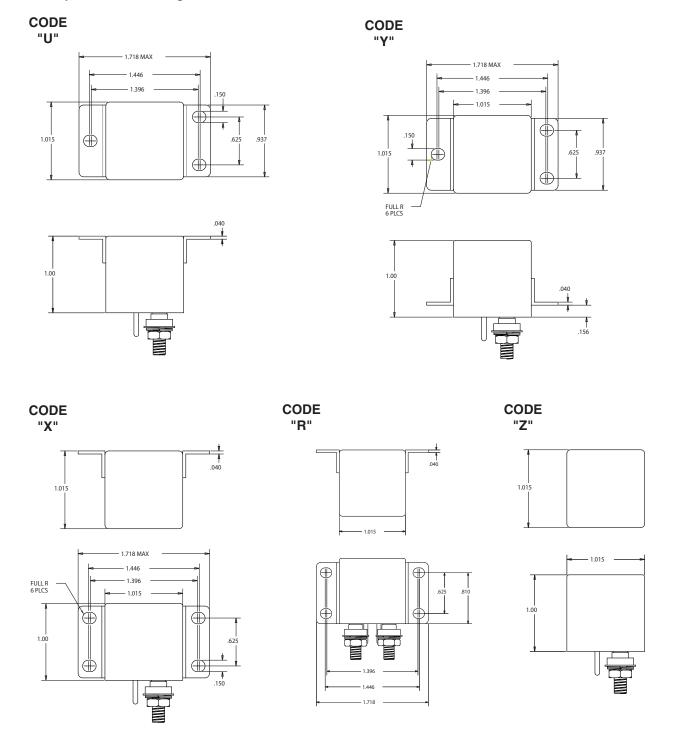
FCA-150 FCAC-150

Series Relay

PRODUCT OUTLINE DIMENSIONS

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

FCA-150 representative drawings shown below.



FCA-150 FCAC-150 Series Relay



KEY FEATURES

Non-latching relay

Balanced force design

Corrosion protected metal enclosure

All welded hermetically sealed enclosure occupies about 1 in³

1 Form X (SPST-NO-DM) Auxiliary versions available with 1 Form C (SPDT) aux.

6, 12 and 28 Vdc coils available

Weight: 90 grams

Designed and built in accordance with MIL-PRF-6106

Rated for altitude up to 300,000 ft.

Available with optional terminals and mounting styles

DESCRIPTION

The FCA-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. The FCAC-150 series has a 1 Form C (SPDT) auxiliary contact set rated at 2 Amps available.

Designed and built to perform under the most demanding environmental conditions and can withstand such changing environmental factors as temperature, altitude, shock, vibration, and salt spray.

Minimum mechanical life expectancy is 50,000 cycles under resistive load.

3 available coil voltages (6, 12 and 28 Vdc) with optional transient suppression.

APPLICATIONS

Used in military, aerospace, and associated ground support electrical and electronic systems. Principle areas of application include:

- Aircraft
- Missiles
- Power Distribution
- Fuel Pumps
- Avionics Main Power Feed
- Weapons Systems
- Ground Support Equipment

PART NUMBERING SYSTEM

Typical Part Numbe	r		FCA-150 or FCAC-150	-А	Y
Series and Contact Arra FCA-150 = Relay with		TS .			
FCAC-150 = Relay with	n 1 Form X Main Conta	cts and 1 Form C Auxiliary	Contacts		
Terminals (see drawing B = Solder Pin Coil Ter	,	rminals		_	
C = Solder Hook Coil T	erminals, Stud Power	Terminals			
K = Terminal Block, Stu	ıd Power Terminals				
Enclosure (see drawing R = Horizontal Flange N Y = Raised Vertical Flar	Mount, Rotated	U = Flush Vertical Flange I Z = No Mount	Mount	X = Horizontal	Flange Mount
Coil: 1 = 6Vdc nominal	2 = 12Vdc nominal	3 = 28Vdc nominal	4 = 28Vdc nom	ninal, with back E	MF suppression

FOR MORE INFORMATION

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