

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



FCA-150 FCAC-150 Series Relays



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 Numb	er		FCA-150 or FCAC-150	-A	Y
Series and Contact Ar FCA-150 = Relay with	rrangement: n 1 Form X Main Contac				
FCAC-150 = Relay wi	th 1 Form X Main Conta	cts and 1 Form C Auxiliary C	ontacts		
	igs for details): erminals, Stud Power Te Terminals, Stud Power T			_	
K = Terminal Block, S	,				
Enclosure (see drawings for details): R = Horizontal Flange Mount, Rotated Y = Raised Vertical Flange Mount		U = Flush Vertical Flange Mount Z = No Mount		X = Horizontal Flange Moun	
Coil: 1 = 6Vdc nominal	2 = 12Vdc nominal	3 = 28Vdc nominal	4 = 28Vdc nom	inal, with back El	WF suppression

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PERFORMANCE DATA

Specifications							
Contact Data							
Contact Form		FCAC-15	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 D	utv)	10/10/10					
	Type of	Life (Min.)		115 Vac			
	Load	Cycles	28 Vdc	400Hz			
	Resistive	50,000	50	50			
I	nductive (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 (V			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) Back EMF Suppressed to (Vdc)		.50 N/A	.26 N/A	.15 N/A	.15 -42		
Coil Resistance		18Ω	70Ω	290Ω	290Ω		
Electrical Data		1052	7052	29052	29052		
		10	10 meanhms minimum at	500V/dc_between each	nin and case		
	Initial Insulation Resistance (note 1) Insulation Resistance After Life or Environmental Test (note 1)		100 megohms, minimum, at 500Vdc, between each pin and case 50 megohms, minimum, at 500Vdc, between each pin and case				
Dielectric Strength At Sea Level		J	o moyonno, minimum, al c				
Contacts to Ground and Between Con	tacte		1 050	Vrme 60 Hz			
Contacts to Ground and Between Contacts		1,250Vrms, 60 Hz. 1,000Vrms, 60 Hz.					
Dielectric Strength at 80,000 ft (25,000	m) All Points (note 4)		500Vrms, 60 Hz				
Environmental Data			5007	11113, UU 112			
	,		700/	2 to 125°C			
Ambient Temperature Range, Operating			-70°C to +125°C 300,000 feet				
			50 G's, 11 ms.				
Shock Resistance			20 G's, 75-3000Hz.				
Vibration Resistance, Sinusoidal Mechanical Data			20 G S	s, 70-3000HZ.			
			0.0	(00a) Max			
Approximate Weight			3.2 02	r. (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.

FOR MORE INFORMATION

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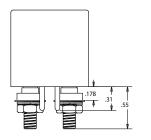


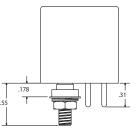
FCA-150 FCAC-150 Series Relays

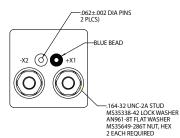
TERMINALS

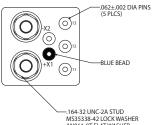
CODE "B"

Solder Pin Terminals — Tin/Lead Plated FCA-150 FCAC-150





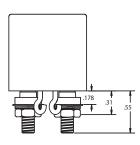


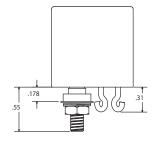


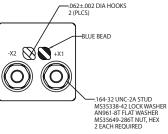
-..164-32 UNC-2A STUD MS35338-42 LOCK WASHER AN961-8T FLAT WASHER MS35649-286T NUT, HEX 2 EACH REQUIRED

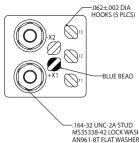
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Solder Hook Terminals — Tin/Lead Plated FCA-150 FCAC-150



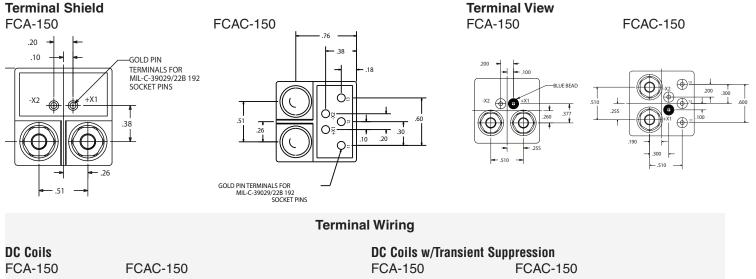






-.164-32 UNC-2A STUD MS35338-42 LOCK WASHER AN961-8T FLAT WASHER MS35649-286T NUT, HEX 2 EACH REQUIRED

CODE "K"



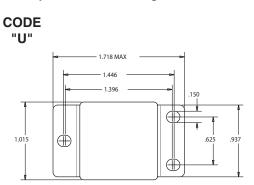
A1 () A1 C A1 C A1 () C 12 C 0" A2 🖒 A2 0 A2 0 A2 C

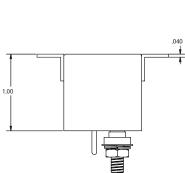
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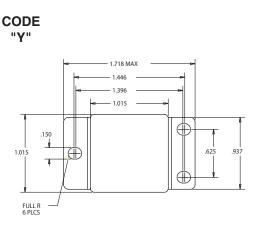
FCA-150 FCAC-150 Series Relays

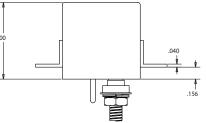
PRODUCT OUTLINE DIMENSIONS

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 are shown below.**



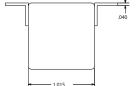


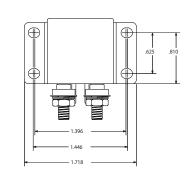




CODE "X" .040 1.015 1.718 MAX 1.446 FULL R 6 PLCS 1.396 - 1.015 \oplus È 1.00 62 \oplus .150

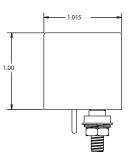












单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)