# 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

## Tyco Electronics

Our commitment. Your advantage.

## KEY FEATURES

## Non-latching relay

## Balanced force design

Corrosion protected metal enclosure

All welded hermetically sealed enclosure occupies about 1 in $^{3}$

## 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



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## PERFORMANCE DATA

## Specifications

| Contact Data |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Contact Form |  |  |

## 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
Technical Support

| Internet: | www.tycoelectronics.com/adm |
| :--- | :--- |
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## TERMINALS

## CODE "B"

Solder Pin Terminals - Tin/Lead Plated FCA-150


## CODE "C"

Solder Hook Terminals - Tin/Lead Plated
FCA-150


FCAC-150



CODE "K"
Terminal Shield
FCA-150


FCAC-150


GOLD PIN TERMINALS FOR
MIL-C-39029/22B 192
SOCKET PINS

## Terminal View

FCA-150


FCAC-150


## Terminal Wiring

DC Coils
FCA-150



## 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


## CODE <br> "X"



CODE
"R"


CODE


