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

Product Facts
■ Non-latching relay
■ Balanced force design

- Corrosion protected metal enclosure

■ All welded hermetically sealed enclosure occupies about 1 in ${ }^{3}$ ( $16.4 \mathrm{~cm}^{3}$ )
■ 1 Form X (SPST-NO-DM)
■ 6, 12 and 28 Vdc coils
■ Weight: 90 grams

- Designed and built in accordance to MIL-PRF-6106


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.

1 Form X (SPST-NO-DM) configuration with main contacts rated 50 Amps.

Specifications


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

| Specifications |  |
| :--- | ---: |
| Electrical Data | 100 megohms, minimum, at 500 Vdc, between each pin and case |
| Initial Insulation Resistance (note 1) | 50 megohms, minimum, at 500 Vdc, between each pin and case |
| Insulation Resistance After Life or Environmental Test (note 1) |  |
| Dielectric Strength At Sea Level | $1,250 \mathrm{Vrms}, 60 \mathrm{~Hz}$. |
| Contacts to Ground and Between Contacts | $1,000 \mathrm{Vrms}, 60 \mathrm{~Hz}$. |
| Coil to Ground | $500 \mathrm{Vrms}, 60 \mathrm{~Hz}$ |
| Dielectric Strength at 80,000 ft (25,000m), All Points (note 4) |  |
| Environmental Data | $-70^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Ambient Temperature Range, Operating | 300,000 feet |
| Altitude | $50 \mathrm{G} \mathrm{\prime s}, 11 \mathrm{~ms}$. |
| Shock Resistance | $20 \mathrm{G} \mathrm{\prime s}, 75-3000 \mathrm{~Hz}$. |
| Vibration Resistance, Sinusoidal |  |
| Mechanical Data | $3.2 \mathrm{oz} .(90 \mathrm{~g}) \mathrm{Max}$. |
| Approximate Weight |  |

## 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



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

## Outline Dimensions

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

## Enclosures



CODE
"X"


CODE
"R"


CODE
"Z"


## Terminal Wiring

DC Coils
DC Coils with Transient Suppression


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.


TERMINAL VIEW

## How to Order



| Catalog 5-1773450-5 | Dimensions are shown for | Dimensions are in millimeters | USA: +1 8005226752 | For additional support numbers please visit www.te.com |
| :---: | :---: | :---: | :---: | :---: |
| Revised 3-13 | reference purposes only. | unless otherwise specified. | Asia Pacific: +86 04008206015 |  |
|  | Specifications subject |  | UK: +44 800267666 |  |
| www.te.com | to change. |  |  |  |

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