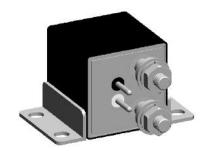
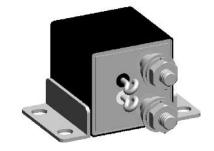


FCA-150 Series, 50 Amps, 1PST/NO (DM) Relay

Product Facts

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

Contact Data				
Contact Form	1 Form X (SPST-NO-DM)			
Contact Rating in Amps (Continuous Duty)				
	Type of	Life (Min.)		
	Load	Cycles	28 Vdc	
	Resistive	50,000	50	
	Inductive (L/R=5ms)	20,000	20	
	Motor	20,000	20	
	None	100,000	-	
Overload Current (Resistive)		200	A, 50 cycles	
Max. Contact Drop at 10A	Initial 30mV; 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 OTR	0.3 - 2.5	0.75 - 4.5	1.5 - 7.0	1.5 - 7.0
Maximum Coil Current at +25°C (A)	.50	.26	.15	.15
Back EMF Suppressed to (Vdc) (Max)	N/A	N/A	N/A	-42
Coil Resistance ±10%	18Ω	70Ω	290Ω	290Ω



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

Specifications

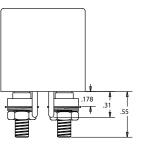
opositionio.			
Electrical Data			
Initial Insulation Resistance (note 1)	100 megohms, minimum, at 500Vdc, between each pin and case		
Insulation Resistance After Life or Environmental Test (note 1)	50 megohms, minimum, at 500Vdc, between each pin and case		
Dielectric Strength At Sea Level			
Contacts 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.		
Approximate Weight	3.2 oz. (90g) Max.		

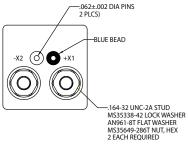
NOTES

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.

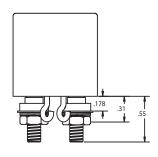
Terminals

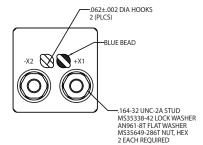
CODE "B" Solder Pin Terminals Tin/Lead Plated



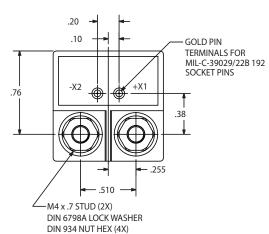


CODE "C" Solder Hook Terminals Tin/Lead Plated





CODE "K" Terminal Shield



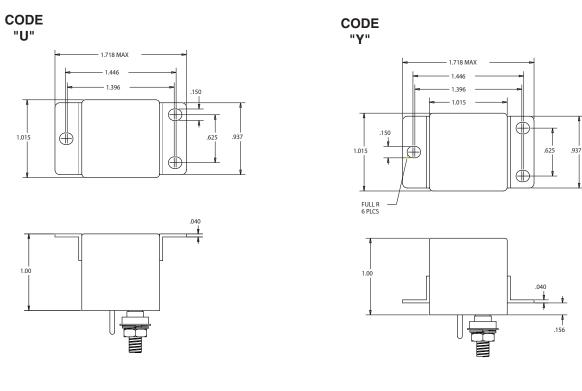


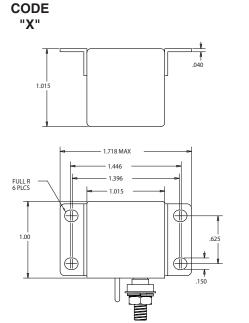
FCA-150 Series, 50 Amps, 1PST/NO (DM) Relay (Continued)

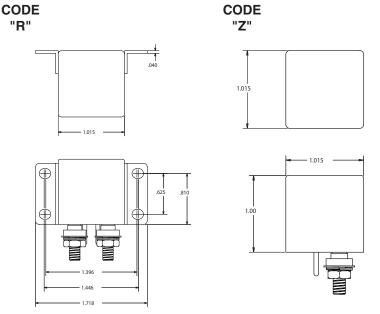
Outline Dimensions

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

Enclosures





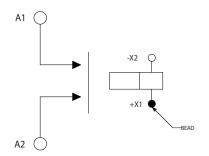




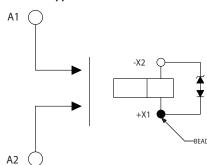
FCA-150 Series, 50 Amps, 1PST/NO (DM) Relay (Continued)

Terminal Wiring

DC Coils



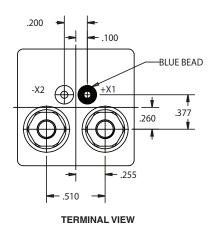
DC Coils with Transient Suppression



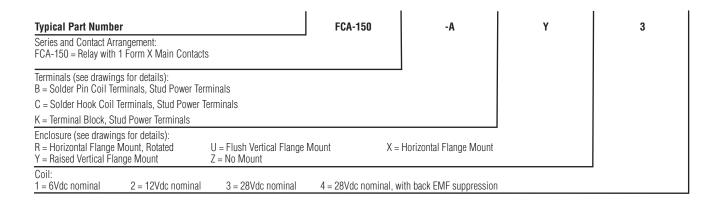
NOTE: Polarity must be observed with DC coil supply. Relay is polarized with a permanent magnet and will not operate or be damaged by reverse polarity.

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.



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