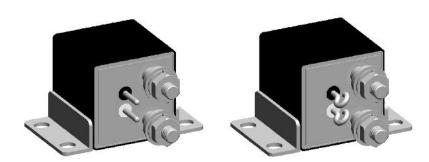


FCA-150NC Series, 50 Amps, 1PST/NC (DB) Relay

Product Facts

- Non latching hermetically sealed relay
- Balanced force design
- Hermetically sealed, corrosion protected metal can
- All welded construction
- 6, 12 and 28Vdc coils available.
- Weight 90 grams
- Designed and built in accordance to MIL-PRF-6106



Specifications

General Characteristics					
Temperature range		-70° C to +125° C			
Altitude	300,000 feet				
Dielectric strength at sea level - Contacts to ground and between contacts - Coil to ground	1250 Vrms / 60 Hz 1000 Vrms / 60 Hz				
Dielectric strength at altitude 25000 m (80,000 ft) (all p	500 Vrms / 60 Hz				
Initial insulation resistance at 500 Vdc	100 MΩ min.				
Initial insulation after life or environmental test		50 MΩ min.			
Sinusoidal vibration		20g / 75 to 3000 Hz			
Shock			50g / 11 ms		
Operate time at nominal voltage	15 ms max.				
Release time	15 ms max.				
Bounce time		1 ms max.			
Contact voltage drop at nominal current -initial value -after life		150 mV max. 175 mV max.			
Coil Data					
Coil Code	1	2	3	4(A)	
Nominal Operating Voltage (Vdc) Maximum Operating Voltage (Vdc)	6 7.3	12 14.5	28 29	28 29	
Aximum Pick-Up Voltage at +125°C 4.5 Aximum Pick-Up Voltage at +125°C, continuous current test (Vdc) 5.7		9 11.25	18 22.5	18 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 (mA)	.50	.26	.15	.15	
Back EMF Suppressed to (Vdc)	N/A	N/A	N/A	-42	
Coil Resistance	18Ω	70Ω	290Ω	290Ω	

For other coil voltages, consult factory.

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Catalog 5-1773450-5 Revised 3-13 Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666

For additional support numbers please visit www.te.com



FCA-150NC Series, 50 Amps, 1PST/NC (DB) Relay (Continued)

Contact Electrical Characteristics

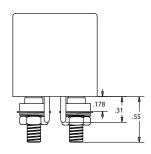
Contact Type	Rated Current	Rated Voltage	
Main Contact	50A	28Vdc	
Minimum Operating cycles	Contact rating per pole and load type MAIN Contact	Load Currents in Amps	
50,000 cycles	Resistive load	50	
20,000 cycles	Inductive load (L/R=5ms)	20	
20,000 cycles	Motor load	20	
50 cycles	Resistive overload	200	
100,000 cycles	No Load		

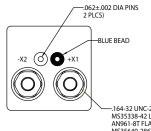
All endurance ratings are subject to validation - consult factory

Terminals

CODE "B"

Solder Pin Terminals Tin/Lead Plated



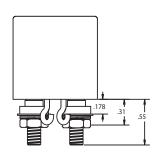


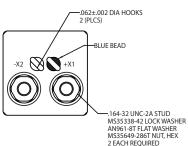
-.164-32 UNC-2A STUD MS35338-42 LOCK WASHER AN961-8T FLAT WASHER MS35649-286T NUT, HEX 2 EACH REQUIRED

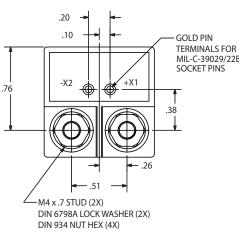


Solder Hook Terminals Tin/Lead Plated

CODE "K" **Terminal Shield**







CII Mid-Range Relays

to change.

Dimensions are in millimeters unless otherwise specified.

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Catalog 5-1773450-5

5-35

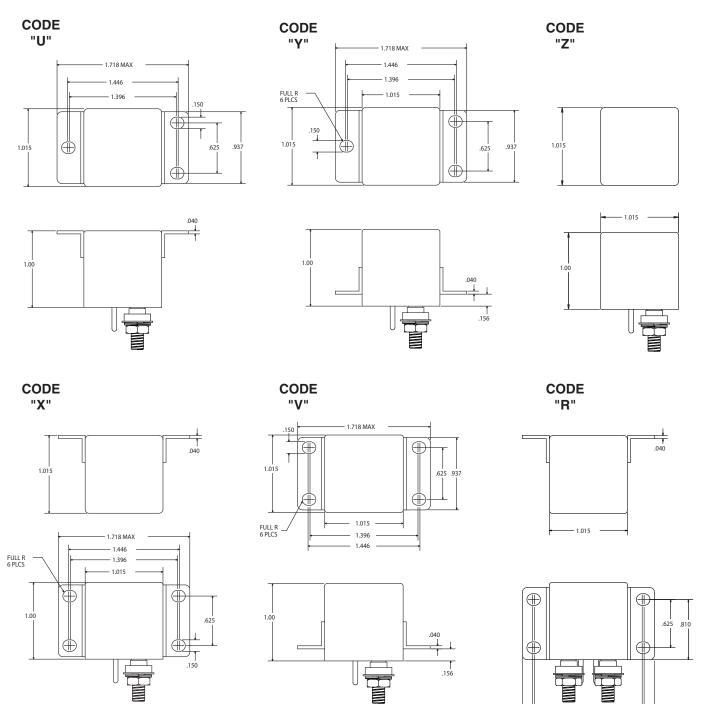


FCA-150NC Series, 50 Amps, 1PST/NC (DB) Relay (Continued)

Outline Dimensions

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

Enclosures



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Catalog 5-1773450-5 E Revised 3-13 r

Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

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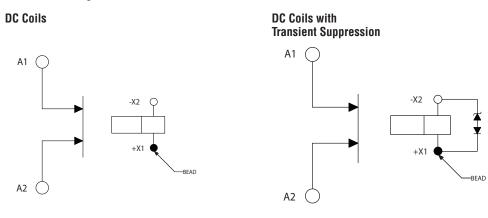
For additional support numbers please visit www.te.com

1.446 1.718



FCA-150NC Series, 50 Amps, 1PST/NC (DB) Relay (Continued)

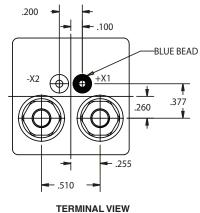
Terminal Wiring



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.



IERMINAL VIEW

PART NUMBERING SYSTEM

	FCA - 150NC	В	Y	4
RELAY TYPE				
TERMINALS				
ENCLOSURE				
COIL				

CII Mid-Range Relays

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