

FCAC-325 Series, 25 Amperes, 3PST-NO with 2 Amp SPDT Auxiliary Contacts



Product Facts

- Hermetically Sealed
- All Welded Construction
- Balanced Force
- Permanent Magnet Drive
- Contacts Silver Cadmium **Oxide with Gold Plating**
- Coils for DC, 50 to 400Hz and 400Hz AC
- Weight 2.89 ounces max. (82grams)



in both states over that of a spring return nonpolar design. We also manufacture other versions of this relay:

FCA-125 — 25 Ampere SPDT Relay

FCA-325 — 25 Ampere **3PDT Relay**

Contact Rating — Amperes **Ratings Are Continuous Duty**

Type of Load	Life (Min.) Cycles x10 ³	28 V Main		115V 400 Main		115/200VAC 400Hz-3Ø	115/200VAC 60Hz-3Ø*
Resistive	50	25	2	25	2	25	2.5
Inductive	10	12	1	—	—		2.5
Inductive	20	—	—	15	1	15	—
Motor	50	10	—	10	—	10	2.0
Lamp	50	5	.5	5	.5	.5	1.0

*60 Hz loads rated for 10,000 operations

Overload Current — 50 AMPS DC, 80 AMPS 400Hz Rupture Current — 60 AMPS DC, 100 AMPS 400Hz Contact Make Bounce —1 MILLISECOND AT NOMINAL VOLTAGE Auxiliary Contact Bounce — 4 MILLISECONDS MAX. Max. Contact Drop at 25 Amps — INITIAL 0.150 VOLTS End of Life - 0.175 VOLTS

Coil Data

Coil Code	Nominal Voltages	Freq. Hz	DC Res.	Over Temperature Range			
			AC Amps (B)	Pickup or Below Volts	Dropout or Above Volts	Must Hold Voltage (C)	
1	6	DC	18 Ω	4.5	0.3	2.5	
2	12	DC	70 Ω	9.0	0.75	4.5	
3	28	DC	290 Ω	18.0	1.5	7.0	
4 (A)	28	DC	290 Ω	18.0	1.5	7.0	
5	48	DC	865 Ω	32.0	2.5	14.0	
6	28	400Hz	225 mA	22.0	1.25	10.0	
7	28	50/400Hz	120 mA	22.0	1.25	10.0	
8	115	400 Hz	40 mA	90.0	5.0	40.0	
9	115	50/400 Hz	30 mA	95.0	5.0	40.0	

A. CODE 4 COILS HAVE BACK EMF SUPPRESSION TO 42 VOLTS MAX.

B. DC COIL RESISTANCE ± 10% AT 25°C; AC COIL MAX. CURRENT AT NOMINAL VOLTAGE.

C. RELAY WILL STAY IN PICKED-UP STATE DOWN TO MUST HOLD VOLTAGES SHOWN. D. MAX. OVERVOLTAGE: 6 & 12 VDC COILS 120% OF NOMINAL; ALL OTHERS 110% OF NOMINAL.

E. COILS AVAILABLE FOR OTHER VOLTAGES AND FOR AC 50/60HZ.

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

General Specifications

Temperature Rating — -70°C TO + 125°C Altitude — 300,000 Feet

Shock* -

Z. Y. & V Enclosures — 200 g for 6 mS W, X & M Enclosures -

100 g for 6 mS Vibration, Sinusoidal* —

Z, Y, & VEnclosures

30 g 33-3000Hz W, X & M Enclosures — 20 g 33-3000Hz

Vibration, Random* ----

Z, Y, & V Enclosures -0.4 g²/Hz 50-2000Hz W, X & M Enclosures 0.2 q2/Hz 50-2000Hz

Dielectric Strenath —

At Sea Level -All circuits to ground and circuit to circuit — 1250 V rms Coil to ground — 1000 V rms At 80.000 Feet - 350 V rms

Insulation Resistance -

Initial (500 VDC) — 100 MΩ Min. After Life or Environmental Tests 50 MΩ Min.

Operate Time at Nominal Voltage -

DC Relays — 15 ms or less AC Relays — 10 ms or less

Release Time at Nominal Voltage ·

DC Relays - 15 ms or less AC Relays — 50 ms or less

* Max. contact opening under vibration or shock 10 microseconds

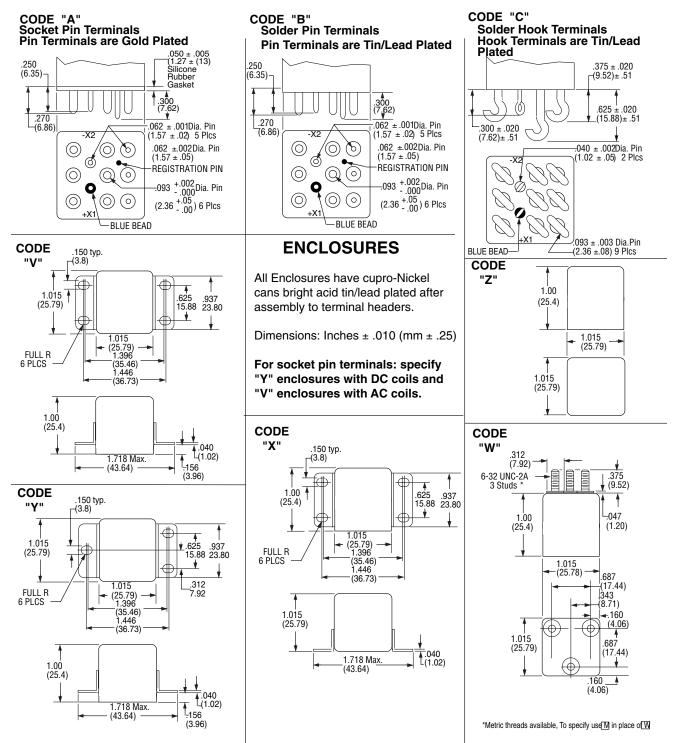
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FCAC-325 Series (Continued)

Below are shown the standard terminal types and the enclosures available. Specify the assembly as indicated under How To Order. Dimensions are shown in inches \pm .010 and (Millimeters \pm .25).

Terminals



Catalog 5-1773450-5 D Revised 3-13 rd S

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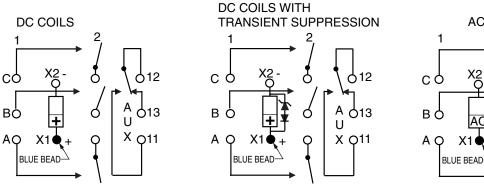
Dimensions are in millimeters unless otherwise specified.

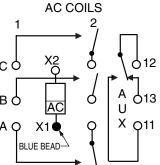
USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com



FCAC-325 Series (Continued)

Terminal Wiring

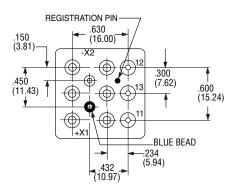




NOTE: Polarity must be observed with DC coil supply. Relay is polarized with a permanent magnet and will not operate or be damaged by reverse polarity.

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.



TERMINAL VIEW

HOW TO ORDER

FCAC-325 - A Y 4

