

FCA-325 Series, 25 Amperes, 3PDT



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. (82 grams)
- Qualified to M83536/32, /33

The Series FCA-325 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 nonpolar design. We also manufacture other versions of this relay:

FCA-125 – 25 Amp SPDT Relay

FCAC-325 — 25 Ampere 3PST-NO Relay with 2 amp SPDT auxiliary

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

Type of	Life (Min.)	28 VDC	115VAC	115/20	OVAC	
Load	Cycles x 103	20 000	400Hz	400Hz-3Ø	60Hz-3Ø*	
Resistive	50	25	25	25	2.5	
Inductive	10	12	_	_	2.5	
Inductive	20	—	15	15	_	
Motor	50	10	10	10	2.0	
Lamp	50	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 Max. Contact Drop at 25 Amps — INITIAL 0.150 VOLTS End of Life — 0.175 VOLTS

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

General Specifications

Temperature Rating -

Altitude — 300,000 Feet

Z. Y. & V Enclosures ----

W, X & M Enclosures -

Z, Y, & V Enclosures 30 g 33-3000Hz

Vibration, Sinusoidal* -

-70°C TO + 125°C

Shock* -

200 g for 6 mS

100 g for 6 mS

circuit — 1250 V rms Coil to ground — 1000 V rms At 80.000 Feet - 350 V rms

Insulation Resistance -

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

Operate Time at Nominal

Voltage DC Relays — 15 ms or less

AC Relays - 20 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

Coil Data

Coil	Nominal	Freq. Hz	DC Res.	Ove	Over Temperature Range			
Code	Voltages		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.

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

RELAY WILL STAY IN PICKED-UP STATE DOWN TO MUST HOLD VOLTAGES SHOWN. C.

D. MAX. OVER-VOLTAGE: 6 & 12 VDC COILS 120% OF NOMINAL; ALL OTHERS 110% OF NOMINAL.

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

NOTE: Only DC Coil Models are QPL Approved.

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.

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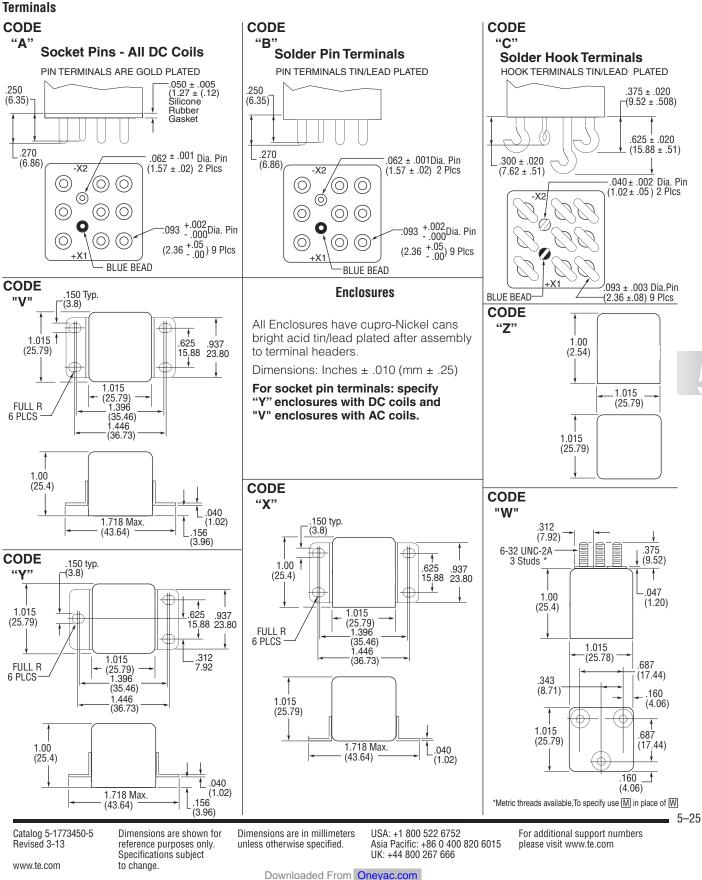
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FCA-325 Series, 25 Amperes, 3PDT (Continued)

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).



CII Mid-Range Relays

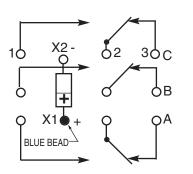


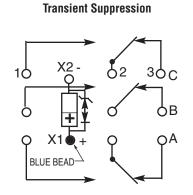
FCA-325 Series, 25 Amperes, 3PDT (Continued)

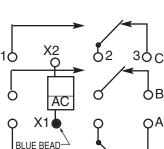
DC Coils with

Terminal Wiring

DC Coils





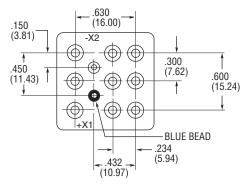


AC Coils

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

FCA-325-A Y 4

RELAY TYPE		
TERMINALS (Socket Pins, DC Coil)		
ENCLOSURE (With Flanges)		
COIL (28 VDC With Transient Suppression). —		

NOTE: Only DC coil models are QPL Approved

* The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15.

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单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)