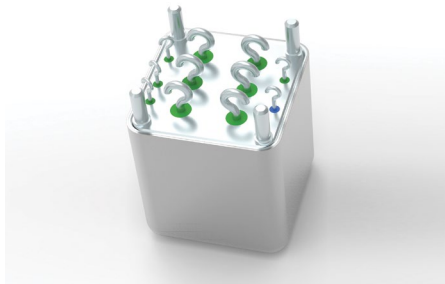


CII FCC-325 SERIES RELAY

HERMETICALLY SEALED, NON-LATCHING 25-AMP RELAY WITH AUXILIARY CONTACTS DESIGNED AND BUILT IN ACCORDANCE WITH MIL-PRF-6106 SPECIFICATIONS



Hermetically sealed, non-latching 25-AMP relay with auxiliary contacts designed and built in accordance with MIL-PRF-6106 specifications



RUGGED

- Hermetically sealed
- Provides corrosion-resistance
- All welded construction. No solder sealing

SPACE AND WEIGHT SAVING

- 1.5 inch cube enclosure
- 0.452 lbs

CAPABLE

- Excellent for switching harsh inductive, motor, and lamp loads
- -70°C to +125°C temperature range

VERSATILE

- 28 Vdc or 115 Vac coils

MARKETS SERVED

- Military Aerospace
- Commercial Aerospace
- Defense
- Naval/Marine

Description

The CII FCC-325 relay from TE Connectivity (TE) expands on the existing high-power switching capabilities of our current MS27418 relay by providing the added benefits of auxiliary contacts. The 2A SPDT auxiliary contacts can be used to perform additional functions related to the control of the relay such as providing circuit trip feedback status, turning on an indicator light, or other similar control functions. The CII FCC-325 relay is an excellent choice for harsh inductive, motor and lamp load applications needing additional connectivity.

MECHANICAL/ENVIRONMENTAL

- **Temperature Range:** -70°C to +125°C
- **Altitude:** 80,000 feet
- **Sinusoidal Vibration:** 10 g/5 to 1000 Hz
- **Shock:** 50 g/11 ms

ELECTRICAL

- **Dielectric Strength at Sea Level:**
Coil to Case: 1250 V_{rms}
All Other Points: 1500 V_{rms}
- **Dielectric Strength at 80,000 feet (25,000 m):** 500 V_{rms} (all points)
- **Insulation Resistance at 500 Vdc:**
Initial: 100 MΩ min.
After Life or Environmental Test: 50 MΩ min.
- **Contact Voltage Drop at Nominal Current:**
Initial Value: 150 mV max.
After Life: 175 mV max.

OPERATIONAL

- **Operate Time at Nominal Voltage:**
AC: 25 ms max.
DC: 20 ms max.
- **Release Time at Nominal Voltage:**
AC: 50 ms max.
DC: 10 ms max.
- **Bounce Time at Nominal Voltage:** 2 ms max.

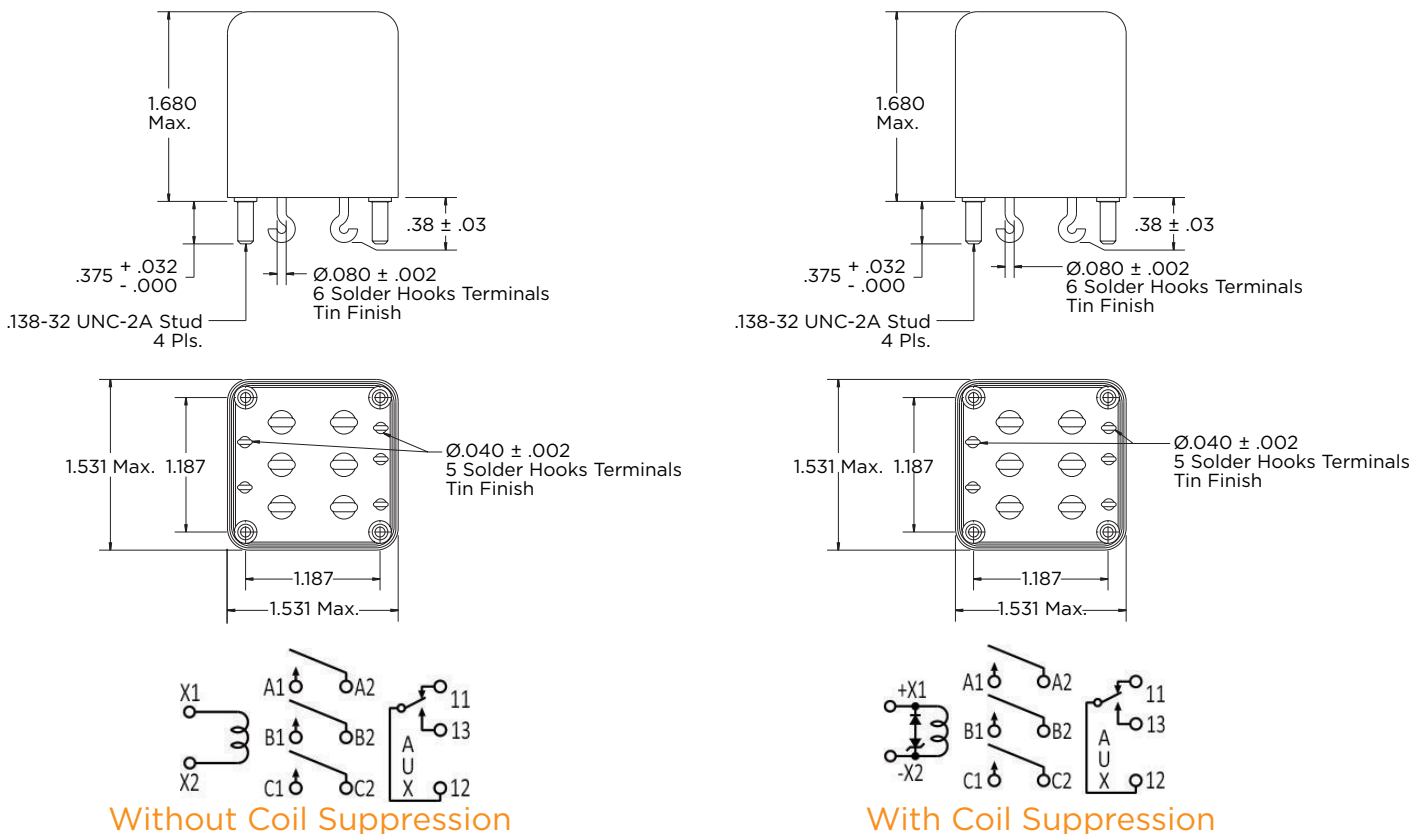
APPLICATIONS

- Launch Systems
- Power Distribution
- Fuel Pumps
- Guidance and Navigation Systems
- Weapons Systems
- Ground Support Equipment
- Naval / Marine Equipment

STANDARDS AND TEST REPORTS

- Designed to the performance standards of MIL-PRF-6106

CII FCC-325 Series Relay



Without Coil Suppression

With Coil Suppression

Coil Characteristics

	AC Coil	DC Coil
Nominal Operating Voltage	115 Vac	28 Vdc
Maximum Operating Voltage	122 Vac	32 Vdc
Maximum Pick-Up Voltage at +125°C	95 Vac	18 Vdc
Maximum Pick-Up Voltage at +125°C (Continuous Current Test)	108 Vac	22.5 Vdc
Drop-Out Voltage at +125°C (Amps Max)	5.0 Vac	1.5 Vdc
Coil Current at +25°C	.06 A @ 50/60 Hz 0.055 A @ 400 Hz	—
DC Coil Resistance ($\pm 10\%$)	—	160 Ω
Back EMF Suppresses to (Vdc) (Suppressed Versions)	—	42 Vdc

Contact Characteristics

Load Type	Life Cycles	Current Rating (A)				
		28 Vdc	115 Vac, 1 Phase Power		115/200 Vac, 3 Phase Power	
			400 Hz	50/60 Hz	400 Hz	50/60 Hz
Resistive	50,000	25	25	25	25	25
Inductive	10,000	15	25	25	25	25
Motor	50,000	20	20	12	20	12
Lamp	50,000	10	10	10	10	10
Mechanical Life, Reduced Current	200,000	6.3	6.3	6.3	6.3	6.3

Part Numbers (With 2A 28 Vdc SPDT Auxiliary Contact)

Coil	Terminal	Mounting	Comml Part No.
28 Vdc	Solder Hook	Stud	FCC-325-CW3
28 Vdc (Suppressed)	Solder Hook	Stud	FCC-325-CW4
115 Vac, 50/60 Hz	Solder Hook	Stud	FCC-325-CW9
115 Vac, 400 Hz	Solder Hook	Stud	FCC-325-CW8

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