

AC UNDERCURRENT

CU SERIES



- ◆ Monitors AC currents for undercurrent conditions
- ◆ Three separate current monitoring ranges covering 0.1 - 10 amperes
- ◆ External CT can be used to extend ranges
- ◆ Adjustable Drop-out Setting with Fixed Pick-up Setting
- ◆ Adjustable time delay of 0.1-10 seconds on drop-out
- ◆ LED indicates output relay status
- ◆ Choice of compact 8 Pin SPDT or 11 Pin DPDT plug-in case
- ◆ 10A output contacts



(with appropriate socket)



Better. By Design.

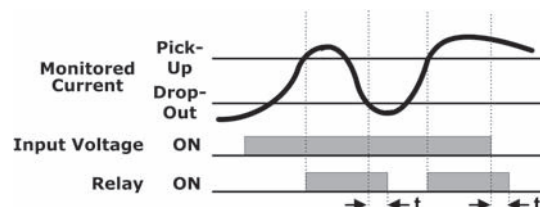
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The CU Series is used to detect an undercurrent condition. The drop-out current setting is user-adjustable within one of three ranges as shown in the Product Selection Table below. An external current transformer can be used to extend the range beyond 10 amperes.

The pick-up current setting is fixed at +5% of the selected drop-out setting. The relay will energize when the monitored AC current is above the pick-up setting. It will de-energize when the monitored AC current is below the drop-out setting for a period longer than the adjustable time delay (t) of 0.1-10 seconds. This delay prevents nuisance tripping caused by momentary line dips. The relay will energize when the current rises 5% above the drop-out setting.



SPDT 8 Pin Plug-in

Pick-up Setting	Drop-Out Setting	Input Voltage	Current Range Monitored	Product Number	Wiring/Socket
Fixed (At +5% of Drop-Out)	Adjustable (Across Monitored Range)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CUP01A68 CUP05A68 CUP10A68	8 Pin 70169-D DIAGRAM 21
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CUP01A62 CUP05A62 CUP10A62	

DPDT 11 Pin Plug-in

Pick-up Setting	Drop-Out Setting	Input Voltage	Current Range Monitored	Product Number	Wiring/Socket
Fixed (At +5% of Drop-Out)	Adjustable (Across Monitored Range)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CUP01A28 CUP05A28 CUP10A28	11 Pin 70170-D DIAGRAM 22
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CUP01A22 CUP05A22 CUP10A22	

Sockets & Accessories available

AC STANDARD, AC OVERCURRENT & AC UNDERCURRENT CM, CO & CU SERIES

APPLICATION DATA

Input Voltage Tolerance:

AC Operation: +10/-15% of nominal at 50/60 Hz.

Load (Burden):

Less than 5VA

Current Settings:

CM & CO Series

Pick-up: Adjustable throughout current range monitored

Drop-out: Fixed at 95% of pick-up setting (CMP & COP Series); or Adjustable from 50-95% of pick-up setting (CMKP & COKP Series)

CU Series

Pick-up: Fixed at 5% above adjustable drop-out setting

Drop-out: Adjustable throughout current range monitored

Response Times:

CM Series

Pick-up: Fixed 100ms

Drop-out: Fixed 100ms

CO Series

Pick-up: Adjustable 0.1-10 seconds

Drop-out: Fixed 100ms

CU Series

Pick-up: Fixed 100ms

Drop-out: Adjustable 0.1-10 seconds

Output Contacts:

10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.),
1/3HP @ 120/240V AC (N.C.)

Life:

Mechanical: 10,000,000 operations

Full Load: 100,000 operations

Temperature: Operating: -28° to 55°C (-18° to 131° F)
Storage: -40° to 85°C (-40° to 185°F)

Indicator LED: Green when Input Voltage is applied; Red when Relay is energized

Reset: Automatic

Mounting:

Requires an 8 or 11 pin octal socket

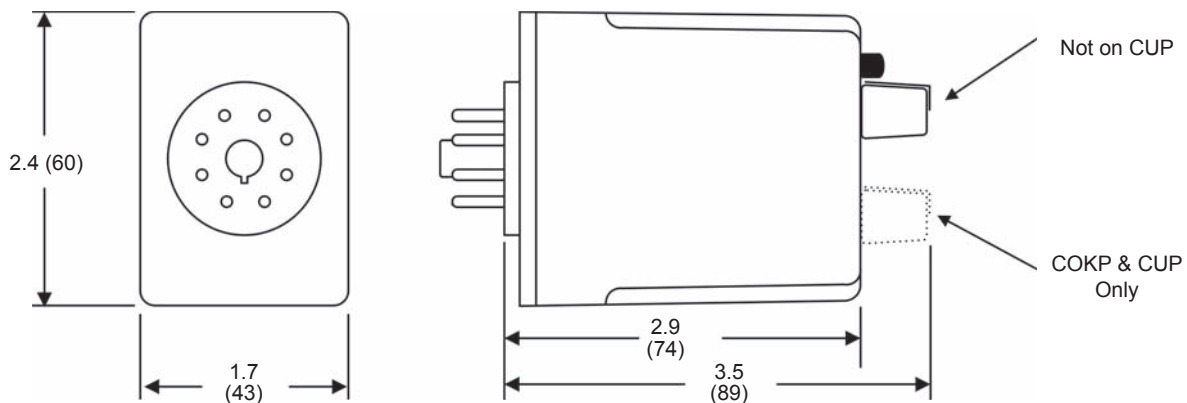
Approvals:



Low Voltage & EMC Directives
EN60947-1, EN60947-5-1



DIMENSIONS



All dimensions are inches
(millimeters)