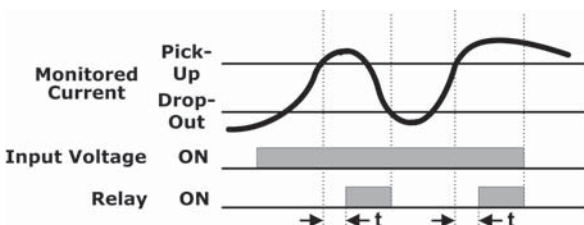


# AC OVERCURRENT CO SERIES

**OBSOLETE PRODUCTS**

The CO Series is used to detect an overcurrent condition. The pick-up 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.

Choose between a fixed drop-out current setting at 95% of the selected pick-up setting or an adjustable drop-out setting of 50-95% of the selected pick-up setting. The relay will energize when the monitored AC current is above the pick-up setting for a period longer than the adjustable time delay (t) of 0.1-10 seconds. This delay prevents nuisance tripping caused by inrush currents. It will de-energize when the monitored AC current is below the drop-out setting.



### SPDT 8 Pin Plug-in

Pick-up Setting	Drop-Out Setting	Input Voltage	Current Range Monitored	Product Number	Wiring/Socket
Adjustable (Across Monitored Range)	Fixed (At 95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COP01A68 COP05A68 COP10A68	 DIAGRAM 21
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COP01A62 COP05A62 COP10A62	
Adjustable (Across Monitored Range)	Adjustable (From 50-95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A68 COKP05A68 COKP10A68	
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A62 COKP05A62 COKP10A62	

### DPDT 11 Pin Plug-in

Pick-up Setting	Drop-Out Setting	Input Voltage	Current Range Monitored	Product Number	Wiring/Socket
Adjustable (Across Monitored Range)	Fixed (At 95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COP01A28 COP05A28 COP10A28	 DIAGRAM 22
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COP01A22 COP05A22 COP10A22	
Adjustable (Across Monitored Range)	Adjustable (From 50-95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A28 COKP05A28 COKP10A28	
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A22 COKP05A22 COKP10A22	

Sockets & Accessories available



- ◆ Monitors AC currents for overcurrent conditions
- ◆ Three separate current monitoring ranges covering 0.1 - 10 amperes
- ◆ External CT can be used to extend ranges
- ◆ Adjustable Pick-up Setting with Fixed Drop-out Setting
- ◆ Adjustable time delay of 0.1-10 seconds on pick-up
- ◆ 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.

CURRENT SENSING RELAYS | PLUG-IN

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

## OBSOLETE PRODUCTS

### 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:

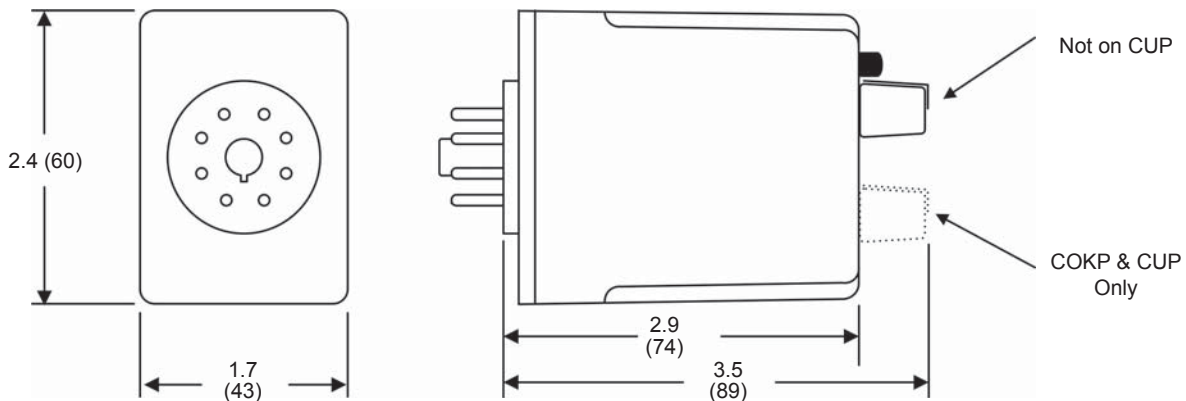


Low Voltage & EMC Directives  
EN60947-1, EN60947-5-1



**CONTACT MACROMATIC**

### DIMENSIONS



All dimensions are inches  
(millimeters)