

# AC STANDARD

## CM SERIES



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



(with appropriate socket)



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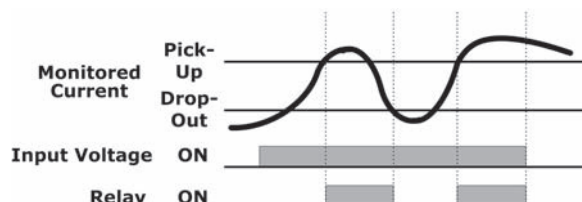
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The CM Series is used to detect either an overcurrent or undercurrent condition. The pick-up current setting is user-adjustable within one of three ranges as shown in the Product Selection Table below. An external current transformer can be used to 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, and will de-energize when the monitored AC current is below the drop-out setting. The time delay on both pick-up and drop-out is fixed at 100ms.



**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	CMP01A68 CMP05A68 CMP10A68	 <b>8 Pin 70169-D</b>
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMP01A62 CMP05A62 CMP10A62	
Adjustable (Across Monitored Range)	Adjustable (From 50-95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A68 CMKP05A68 CMKP10A68	 <b>DIAGRAM 21</b>
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A62 CMKP05A62 CMKP10A62	

**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	CMP01A28 CMP05A28 CMP10A28	 <b>11 Pin 70170D</b>
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMP01A22 CMP05A22 CMP10A22	
Adjustable (Across Monitored Range)	Adjustable (From 50-95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A28 CMKP05A28 CMKP10A28	 <b>DIAGRAM 22</b>
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A22 CMKP05A22 CMKP10A22	

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

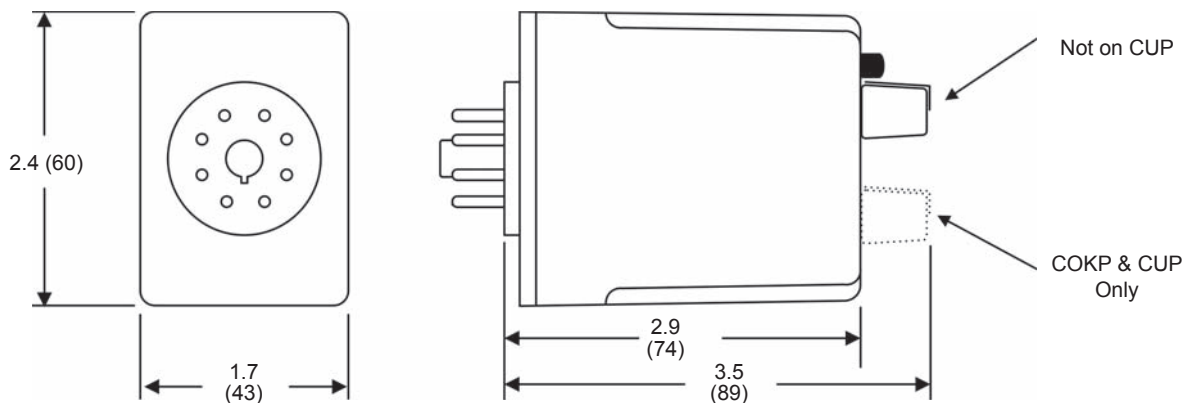
### Approvals:



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



## DIMENSIONS



All dimensions are inches  
(millimeters)