

CURRENT SENSING RELAYS

CM SERIES STANDARD AC PLUG-IN



- ◆ Monitors AC single phase 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



(with appropriate socket)

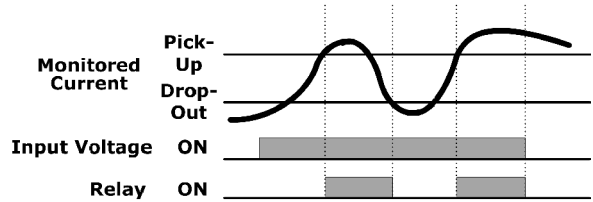


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The CM Series is used to detect either an overcurrent or undercurrent condition. The pick-up current setting is user-adjustable within one of three ranges as shown in the Product Selection Table below. An external current transformer can be used to 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 (for products with adjustable time delay on pick-up, see Page 19; for adjustable time delay on drop-out, see Page 20).

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	
		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	
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A62 CMKP05A62 CMKP10A62	

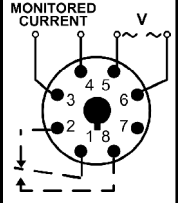


DIAGRAM 21

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	
		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	
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	CMKP01A22 CMKP05A22 CMKP10A22	

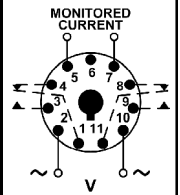


DIAGRAM 22

Application Data & Dimensions—Page 21
Sockets & Accessories—Pages 80 & 81

CURRENT SENSING RELAYS

CM, CO & CU SERIES

AC PLUG-IN

APPLICATION DATA & DIMENSIONS

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 & CO Series

Pick-up: Fixed 100ms

Drop-out: Adjustable 0.1-10 seconds

CU Series

Pick-up: Adjustable 0.1-10 seconds

Drop-out: Fixed 100ms

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:

-28° to 55° C (-18° to 131° 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--see page 80.

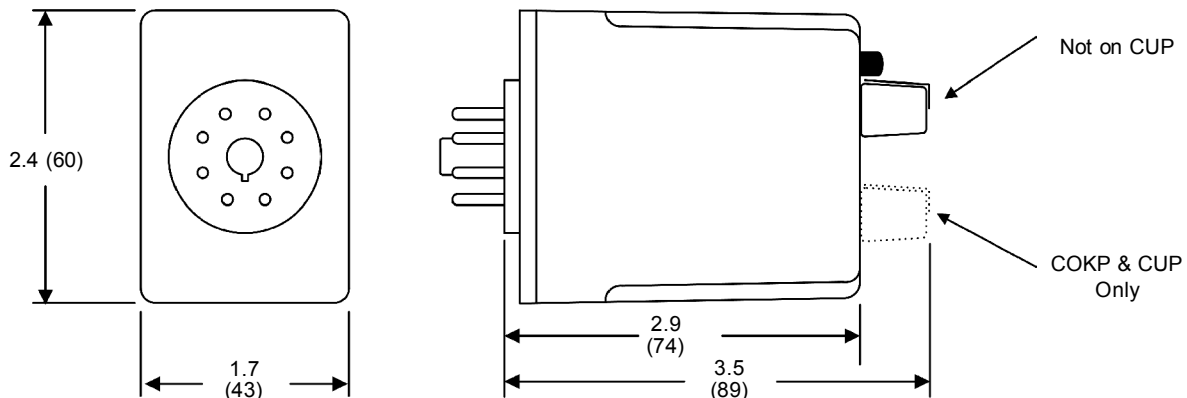
Approvals:



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

with
appropriate
socket
File #E109466

DIMENSIONS



All dimensions are inches
(millimeters)