

# AC OVERCURRENT COKP SERIES

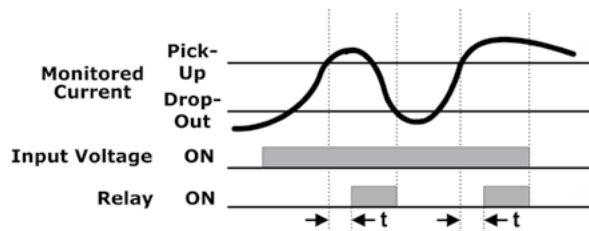


- ◆ Monitors AC currents for overcurrent conditions
- ◆ Three separate current monitoring ranges covering 0.1 - 10 amperes
- ◆ External CT can be used to extend ranges
- ◆ Adjustable Pick-up and Drop-out Settings
- ◆ Adjustable time delay of 0.1-10 seconds on pick-up
- ◆ LED indicates output relay status
- ◆ Uses industry-standard 8 pin octal socket
- ◆ 10A SPDT output contacts



Current sensing relays can be used in several applications where protection of sensitive or expensive equipment against over or under current conditions is required, such as detecting (sensing) conveyor jam-up conditions, machine tool wear, no load conditions or monitoring status of heater or lamp loads.

The COKP 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 of these products. The drop-out setting is adjustable from 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.



PICK-UP SETTING	DROP-OUT SETTING	INPUT VOLTAGE	CURRENT RANGE MONITORED	CATALOG NUMBER	WIRING/SOCKET
Adjustable (Across Monitored Range)	Adjustable (From 50-95% of Pick-Up)	24V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A68 COKP05A68 COKP10A68	<p>8 Pin <b>70169-D</b> MONITORED CURRENT</p>
		120V AC	0.1 - 1A 0.5 - 5A 1 - 10A	COKP01A62 COKP05A62 COKP10A62	



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Sockets & Accessories available

# AC OVERCURRENT COKP SERIES

## APPLICATION DATA

### Input Voltage Tolerance:

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

### Load (Burden):

Less than 5VA

### Current Settings:

Pick-up: Adjustable throughout current range monitored

Drop-out: Adjustable from 50-95% of pick-up setting

### Response Times:

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:** 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

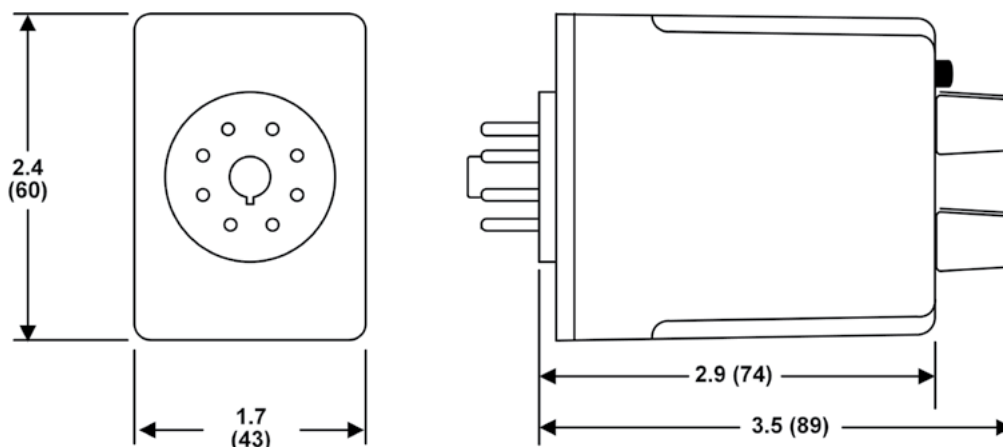
### Mounting:

Requires 8 pin octal socket (Macromatic 70169-D or equivalent)

### Approvals:



## DIMENSIONS



All Dimensions in  
Inches (Millimeters)

# SOCKETS & ACCESSORIES

## 8 Pin Octal Socket- Surface or DIN Rail-Mounted

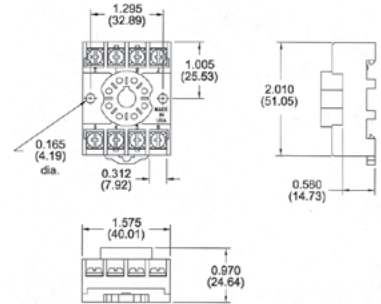
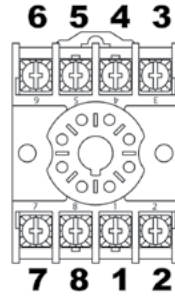
- ◆ 10A @ 600V
- ◆ 1 or 2 #12-20 AWG Wire
- ◆ Pressure Wire Clamp Terminations
- ◆ Recommended Tightening Torque  
12 in-lbs



File #E169693 File #LR701114



Catalog Number:  
70169-D



## 11 Pin Octal Socket Surface or DIN Rail-Mounted

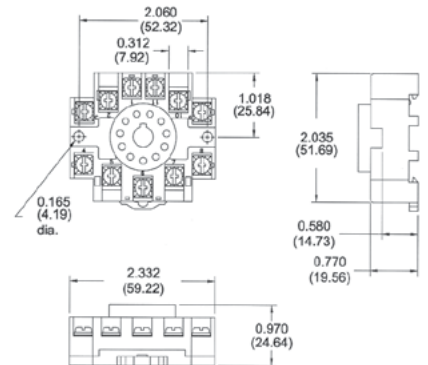
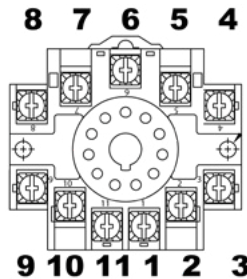
- ◆ 10A @ 300V
- ◆ 1 or 2 #12-20 AWG Wire
- ◆ Pressure Wire Clamp Terminations
- ◆ Recommended Tightening Torque  
12 in-lbs



File #E169693 File #LR701114



Catalog Number:  
70170-D



## Hold Down Spring Catalog Number 70166

Can be used for:

- ◆ Panel-Mounted Sockets
- ◆ Sockets Mounted to 35mm DIN Rail \*

\* Requires two #8, 3/4" length machine screws with washers & nuts--contact Macromatic or [www.macromatic.com/70166](http://www.macromatic.com/70166) for more information.

