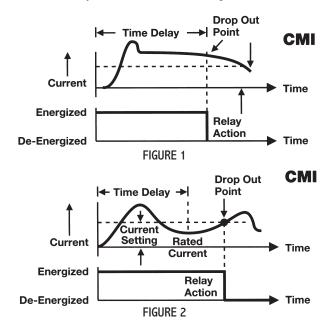
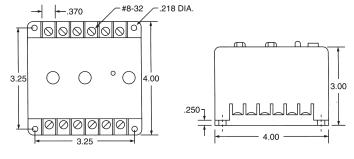
OPERATION

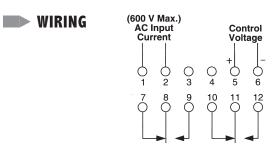
The CMI Series AC OVER CURRENT Monitor Relay operates in the FAIL-SAFE MODEL as the relay is energized (pick-up) when the monitored AC current is normal. The relay de-energizes (Drop-out) when the monitored current rises above the preset trip point or the control voltage is removed. When current is initially applied, a time delay begins. This inhibits the over current sensors while high inrush currents are present. The delay is field adjustable and is set so the delay period is slightly longer than the inrush time of the motor. If the monitored current is above the preset trip point when the delay elapses, the relay de-energizes. (Figure 1) If the current drops to the normal run current of the motor prior to the completion of the delay period, the relay remains energized until the current rises above the trip point, which indicates an abnormal condition. At that time the relay deenergizes and remains locked-out until the reset button is pressed or the control voltage is interrupted, and re-applied. (Figure 2) A typical application is for conveyor jam up detection.

An External CT may be used to extend the range of the Current Monitor. SPECIFICATIONS



DIMENSIONS (INCHES)







FAIL SAFE DETECTION OF MOTOR JAM UPS

AC Over Current Monitor

CONTROL VOLTAGE	24 or 120 VAC, 50/60 Hz					
TRIP POINTS	Pick-up Drop-out	See Order Information Press Reset Button or				
		Restore Control Voltage				
OUTPUT	DPDT, 10 Amps @ 120 VAC, Resistive					
TIME DELAY	0.2 to 10 SEC, Adjustable On Motor Starting					
OPERATING TIME	50 mSEC (After Initial Delay has Timed Out)					
CURRENT WITHSTAND	20 Times No	ominal for 1 Second				
ISOLATION	2500 Volts Between Input and All Other Terminals					
INDICATOR	Glows on Normal Current					
RESET	Manual, Press Button or Interrupt Control Voltage					
RESET TIME	100 mSEC After Lock-Out					
TEMPERATURE	Operate	32° to 131°F (0° to +55°C)				
RATING	Storage	-49° to 185°F (-45° to +85°C)				
ENCLOSURE	Lexan Surface Mounted; #8-32 Screw Terminals					
WEIGHT	11 oz.					

MODEL NUMBER

MODEL NUMBER	CMI		Α	S	Ε	
CONTROL VOLTAGE						
24 Volts		24				
120 Volts		120				
CURRENT TRIP POINTS						
0.05 to 0.25 amp adj.						.25
0.2 to 1 amp adj.						1
1.0 to 5.0 amps adj.						5
2.0 to 10 amps adj.						10
4.0 to 20 amps adj.					20	

CURRENT MONITORS