



PHASE MONITORS

THREE PHASE MOTOR PROTECTION

**MADE IN
THE U.S.A.**

BASIC MODELS:

DPDT / Surface Mount

002-230-123

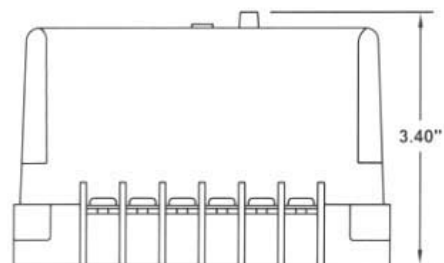
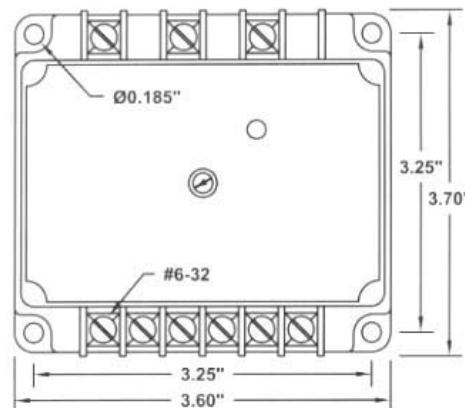
002-480-123

PROTECTS AGAINST:

Under Voltage
Phase Loss
Phase Reversal
Phase Unbalance
(Optional Over Voltage)



UL FILE #E101681



OPERATION

When proper voltage is connected to the phase monitor the internal relay will be energized and the LED will come on steady. An abnormal condition will cause the LED to blink during the trip delay. When the trip delay has expired the internal relay will be de-energized. The LED will then provide a series of pulses that indicate which fault condition is present. When conditions return to normal, the LED will blink during the reset delay. When the reset delay has expired, the LED will come on steady and the internal relay will be energized. The reset delay is also active immediately after power is turned on to the unit.

These units can be used on Delta or Wye systems, 50/60 Hz.

SPECIFICATIONS

Under Voltage:

Trip: - 15% of Setting for 230V (-10% for 480V)

Reset: - 12% of Setting for 230V (-8% for 480V)

Over Voltage:

Trip: + 15% of Setting for 230V (+10% for 480V)

Reset: + 12% of Setting for 230V (+8% for 480V)

Phase Unbalance:

Trip: 7% with 5 Second Trip Delay

15% with 1 Second Trip Delay

Reset: 6%

Trip Delay:

5 Seconds (Delay is Reduced to 1 Second if Phase Unbalance is 15% or Greater)

Reset Delay:

2 Seconds Standard (See Options)

Voltage Range:

200V to 240V or 425V to 525V

Output Rating:

10A Resistive @ 240VAC

6A Inductive @ 240VAC

Operating Temp:

-40°C to +50 °C

Storage Temp:

-45°C to +85 °C

Enclosure:

White Lexan

LED STATUS	CONDITION	A	B	C
ON STEADY	NORMAL	1	3	5
BLINKING	TRIP or RESET			
PULSES	UNDERVOLTAGE			
PULSES	OVERVOLTAGE			
PULSES	Ø UNBALANCE			
PULSES	Ø REVERSAL			

ORDERING INFORMATION

002 - XXX - 12 3 - XXXXX

Product Type —
Operating Voltage —
(230,480)
Relay Type (DPDT) —
Base (Surface Mount) —
Options: —
OV - Over Voltage
G5 - 5 Second Reset Delay
G10 - 10 Second Reset Delay
G20 - 20 Second Reset Delay
G30 - 30 Second Reset Delay
G60 - 60 Second Reset Delay