#### **Features**

Three input voltage ranges provide the versatility to handle global applications.

Bicolor LED indicator light is green in normal conditions and red during trip conditions.

Optional 15A @ 240VAC high current relay can switch heavier current loads

The microcontroller-based circuit provides better accuracy and higher reliability than analog designs.

Transient protection meets IEC 1000-4-5:1995 standards to handle tough conditions.

Single-phase conditions are detected regardless of regenerated voltages.



**Model 350** 3-phase voltage monitor is perfect for heavy-duty applications such as rural pump panels, commercial and rural HVAC equipment, and oil rigs. The Model 350 is a versatile voltage monitor designed for 200, 400, or 600V applications. The Model 350-200 monitors 190 to 240V input voltages, the Model 350-400 monitors 380 to 480V input voltages, and the Model 350-600 monitors 475 to 600V input voltages.

A unique microcontroller-based voltage and phase-sensing circuit constantly monitors the 3-phase voltage to detect harmful power line conditions such as single-phasing, low voltage, phase reversal, voltage unbalance, and high voltage (optional). When a harmful condition is detected, the MotorSaver's output relay is deactivated after a specified trip delay. The output relay reactivates after power line conditions return to an acceptable level for a specified amount of time (restart delay). The trip delay prevents nuisance tripping due to rapidly fluctuating power line conditions.

The Model 350-400 and 350-600 are equipped with one standard 470VA @ 600V contact. The Model 350-400 and 350-600 can be ordered with 15A general purpose contacts to switch heavier current loads.



# Protects 3-Phase Motors from:

- Loss of any phase (single-phasing)
- Low voltage
- Voltage unbalance
- Phase reversal
- Optional high voltage

#### Additional Features:

- Diagnostic LED indicates:
   Run
   Restart delay
   Reverse phase
   Unbalance/single-phase
   High/low voltage
- Standard surface mount
- UL and cUL listed
- 5-year warranty
- Made in USA

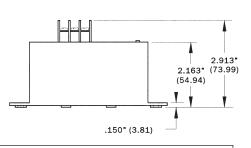


### Model 350 Three-Phase Voltage Monitor

## Specifications

## Operating Points

### **Special Options**



#### 3-Phase Line Voltage

Fliase Lille vollage
350-200
350-400
350-600
(Consider value of value)

#### Low Voltage (% of setpoint)

•Trip 90%

•Reset......93%

#### Voltage Unbalance (NEMA)

•Trip 6%

#### Trip Delay Time

#### **Restart Delay Time**

#### Output Contact Rating

SPDT (350-400, 350-600) . . . . . . . . 470VA @ 600VAC 10A General Purpose

1-15A General Purpose 480VA @ 240VAC Pilot Duty

1hp @ 240VAC

DPDT (-8 Option)......2-15A General Purpose 480VA @ 240VAC Pilot Duty

1hp @ 240VAC

Transient Protection (Internal) . . . . IEC 1000-4-5;1995 ± 6kV

Power Consumption . . . . . . . 5 Watts (max.)

Weight ......1.5 lbs.

#### **Operating Temperature**

Ambient Öperating .....-20° to 70° C (-4° to 158°F) Ambient Storage ....-40° to 80° C (-40° to 176°F)

#### Special Options on Model 350

High Voltage (% of setpoint)

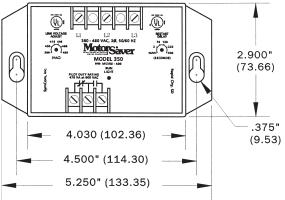
•Adjustable Restart Delay . . . . . 2-300 seconds •Adjustable Trip Delay . . . . . . . 2-30 seconds

•Manual Reset . . . . . Standard with adj. restart delay

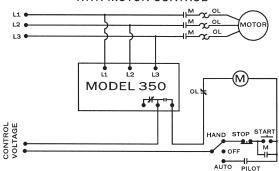
•Relay Options . . . . . . . . . Consult Factory

\*Note: 50 Hz will increase all delay timers by 20%.

SymCom warrants its microcontroller-based products against defects in material or workmanship for a period of five (5) years from the date of manufacture. All other products manufactured by SymCom shall be warranted against defects in material and workmanship for a period of two (2) years from the date of manufacture. For complete information on warranty, liability, terms, returns, and cancellations, please refer to the SymCom Terms and Conditions of Sale document.



#### TYPICAL WIRING DIAGRAM FOR MODEL 350 WITH MOTOR CONTROL



## TYPICAL WIRING DIAGRAM FOR MODEL 350 WITH ALARM CONTROL

