

# 3 Phase Voltage Monitor WVM Series 10A SPDT Motor Protector with 10 Fault Memory

3 Phase  
Line Monitor



ANSI Device #27/47/59

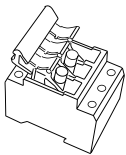
TEN YEAR  
WARRANTY

- Protects Against: Phase Loss & Reversal; Over, Under & Unbalanced Voltages; Short Cycling
- 10 Fault Memory & Status Displayed on 6 LED Readout
- Switch Selectable Automatic Restart, Delayed Automatic Restart, & Manual Reset
- Isolated 10 A SPDT Relay Contacts
- Part Instrument Part Control
- Pays For Itself During One Single Phasing Event
- Universal Voltage Sensing Design Protects any Size Motor. From Fractional to 1200 Hp.

Complete Product Details:  
<http://www.ssac.com/pp1.htm>



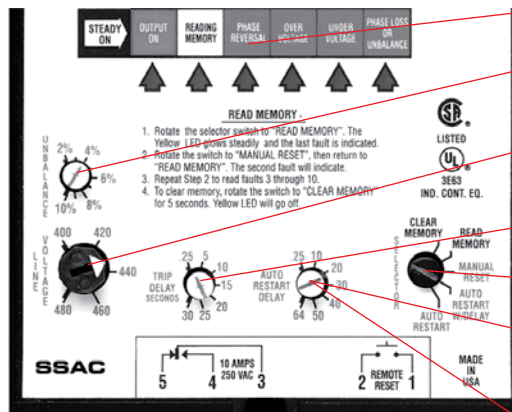
## Accessories



3-Pole Fuse Block  
35 mm DIN Rail  
Mounting  
P/N: FH3P



2 Amp Midget Fuse  
P/N: P0600-11



### 6 LED Status Panel

Displays current line status and faults in memory.

### Improved Phase Loss Protection

Unaffected by regenerated voltages, plus adjustable, 2 to 10%, unbalance protection.

### Adjust to the Motor's Operating Voltage

The unit automatically sets the over and under voltage trip points.

### Prevents Nuisance Tripping

Adjustable Trip Delay 0.25 to 30 Seconds

### Switch Selectable Reset Method

Automatic with or without Restart Delay, or Manual Reset

### A True Random Restart Delay

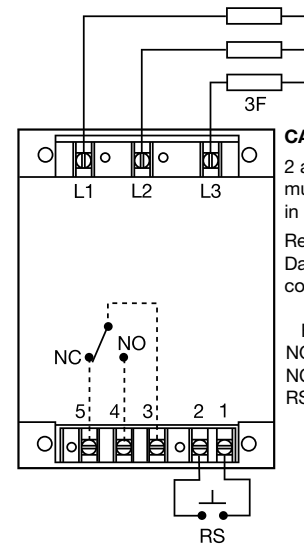
3 to 15 s delays the restart of protected motors until after momentary brownouts caused by lighting and heating loads have passed and the voltage stabilizes.

### Anti-Short Cycling & Staggered Restarting

Adjustable Restart Delay 0.25 s to 64 m prevents rapid cycling. Allows staggered restarting of multiple systems on a common power distribution system.

The WVM Series provides protection against premature equipment (motor) failure caused by voltage faults on the 3 Phase Line. The WVM's microcontroller design provides reliable protection even if regenerated voltages are present. It combines dependable fault sensing with a 10 fault memory and a 6 LED status display. Part instrument, part control, the WVM protects your equipment when you're not there and displays what happened when you return. The WVM is fully adjustable and includes time delays to prevent nuisance tripping and improve system operation. Time delays include a 0.25 to 30 s adjustable trip delay, an adjustable 0.25 to 64 m (in 3 ranges) restart delay, plus a unique 3 to 15 s true random start delay. The random start delay prevents voltage sags caused by simultaneous restarting of numerous motor loads after a power outage.

## Connection



### CAUTION:

2 amp max fast acting fuses must be installed externally in series with each input. (3)  
Relay contacts are isolated. Dashed lines are internal connections.

F = Fuses  
NO = Normally Open  
NC = Normally Closed  
RS = Optional Remote Reset Switch

## Technical Data

Phase Loss	≥ 15% unbalance	
Response Time	≤ 200 ms	
True Random Start Delay	3 ... 15 s	
Fault Memory	Stores last 10 faults	
Capacity	Stores last 10 faults	
Status Indicators	6 LEDs provide existing status & memory readout	
Output	10 A resistive @ 250 V AC; 6 A inductive (0.4 PF) at 250 V AC	
Rating	10 A resistive @ 250 V AC; 6 A inductive (0.4 PF) at 250 V AC	
Mechanical	Screw terminals with captive wire clamps for up to #12 AWG (3.2 mm <sup>2</sup> ) wire	
Termination	Screw terminals with captive wire clamps for up to #12 AWG (3.2 mm <sup>2</sup> ) wire	
Package Size	6.9 x 4.4 x 2.4 in (175.3 x 111.8 x 2.4 mm)	

## Ordering Table

Part Number	Line Voltage	Output Form	Adj. Unbalance	Adj. Trip Delay	Adj. Restart
WVM911AH	400 to 480 V AC	SPDT	2 to 10%	0.25 to 30 S	0.25 to 64M
WVM911AL					0.25 to 64S

See accessory pages

WVMpp 01.17.08