

DUAL VOLTAGE PHASE MONITORS

THREE PHASE MOTOR PROTECTION

MADE IN THE U.S.A.



UL FILE #E101681

PROTECTS AGAINST:

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



*UL listed models require use of an RB08 or RB08-PC socket.



The Dual Voltage Phase Monitor automatically selects which voltage scale to operate from, either the 200-280V or the 425-525V.

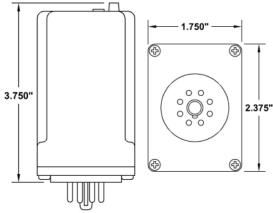
When the proper voltage is connected to the phase monitor the internal relay will be energized and the LED will be on steady. An abnormal condition will cause the LED to blink during the trip delay. When the trip delay has expired the internal relay will be denergized. The LED will then provide a series 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.

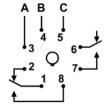
To add the Over Voltage feature select the OV option.

To extend the standard Reset Delay select one of the G options.





LED STATUS	CONDITION
ON STEADY	NORMAL
nnnnn	TRIP or RESET
л	UNDERVOLTAGE
7.7	OVERVOLTAGE
	Ø UNBALANCE
	Ø REVERSAL



SPECIFICATIONS

Under Voltage: Trip:

- 15% of 200-280V or -10% of 425-525V - 12% of 200-280V or -8% of 425-525V

Over Voltage:

Trip: + 15% of 200-280V or +10% of 425-525V Reset: + 12% of 200-280V or +8% of 425-525V

Phase Unbalance:

Reset:

Trip: 5% with 5 Second Trip Delay 10% with 1 Second Trip Delay

Dearts 40/

Reset: 4%

Trip Delay: 5 Seconds (Delay is Reduced to 1 Second (Delay on Release) if Phase Unbalance is 10% or Greater)
Reset Delay: 2 Seconds Standard (See Options)

(Delay on Operate)

Voltage Range: 200V to 280V or 425V to 525V

Output Rating: 10A Resistive @ 240VAC

Operating Temp: -40°C to +40°C
Storage Temp: -45°C to +85°C
Enclosure: White Lexan
Phenolic

ORDERING INFORMATION

One rating Voltage Upon (SPDT,SPST)

Base (8 Pin Octal) – 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

Order from: C A Briggs Company; 622 Mary Street; Suite 101 - Warminster, PA 18974 Phone: 267-673-8117 - Fax: 267-673-8118; E-Mail: Sales@cabriggs.com - www.cabriggs.com



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PROTECTS AGAINST:

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Phase Loss
Phase Reversal
Phase Unbalance
(Optional Over Voltage)



*UL listed models require use of an SD12-PC socket.

OPERATION

The Dual Voltage Phase Monitor automatically selects which voltage scale to operate from, either the 200-280V or the 425-525V.

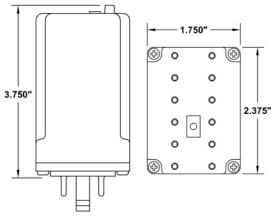
When the proper voltage is connected to the phase monitor the internal relay will be energized and the LED will be on steady. An abnormal condition will cause the LED to blink during the trip delay. When the trip delay has expired the internal relay will be deenergized. The LED will then provide a series 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.

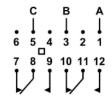
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To extend the standard Reset Delay select one of the G options.





LED STATUS	CONDITION
ON STEADY	NORMAL
www	TRIP or RESET
л	UNDERVOLTAGE
7.7	OVERVOLTAGE
	Ø UNBALANCE
	Ø REVERSAL



SPECIFICATIONS

Under Voltage: Trip:

- 15% of 200-280V or -10% of 425-525V - 12% of 200-280V or -8% of 425-525V

Over Voltage:

Trip: + 15% of 200-280V or +10% of 425-525V

Reset: + 12% of 200-280V or +8% of 425-525V

Phase Unbalance:

Reset:

Trip: 5% with 5 Second Trip Delay

10% with 1 Second Trip Delay

Reset: 4%

Trip Delay: 5 Seconds (Delay is Reduced to 1 Second (Delay on Release) if Phase Unbalance is 10% or Greater)
Reset Delay: 2 Seconds Standard (See Options)

(Delay on Operate)

Voltage Range: 200V to 280V or 425V to 525V

Output Rating: 10A Resistive @ 240VAC

Operating Temp: -40°C to +40°C
Storage Temp: -45°C to +85°C
Enclosure: White Lexan
Phenolic

ORDERING INFORMATION

One - DVM - 12 12 - XXXXX

Product Type J

Operating Voltage J

(Dual Voltage)

Relay Type (DPDT)

Base (12 Pin)

Options:

OV - Over Voltage

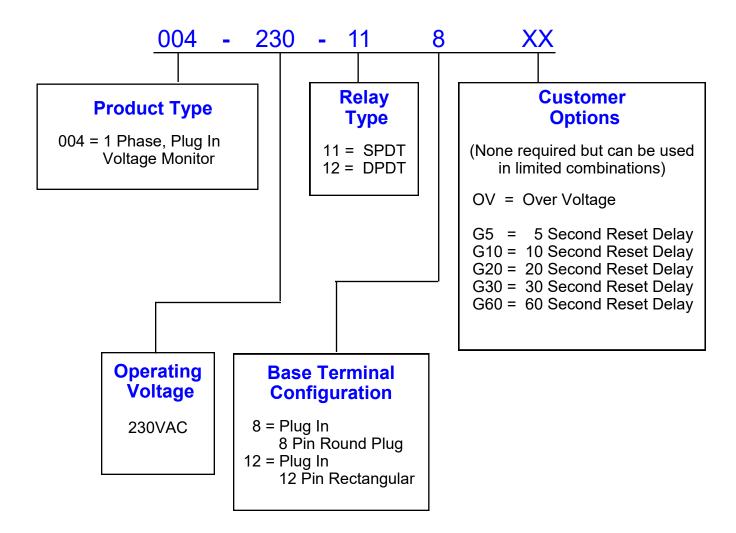
G5 - 5 Second Reset Delay G10 - 10 Second Reset Delay G20 - 20 Second Reset Delay G30 - 30 Second Reset Delay G60 - 60 Second Reset Delay

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Ordering Information - Voltage Monitors

Voltage Monitor Designations

Example: M.P.E. Product Number 004 - 230 - 118
Product Number Breakdown:





VOLTAGE MONITORS

SINGLE PHASE MOTOR PROTECTION



MADE IN THE U.S.A.

UL FILE #E101681

PROTECTS AGAINST:

Under Voltage Rapid Load Cycling (Optional Over Voltage)



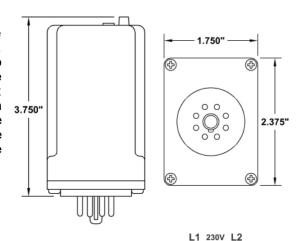
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OPERATION

When proper voltage is connected to the voltage 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.

To add the Over Voltage feature select the OV option. To extend the standard Reset Delay select one of the G options.



SPECIFICATIONS

Under Voltage:

- 15% of 200V-280V Trip: - 12% of 200V-280V Reset:

Over Voltage:

+ 15% of 200V-280V Trip: Reset: + 12% of 200V-280V

2 Seconds Standard (See Options)

Trip Delay: 5 Seconds

(Delay on Release)

Reset Delay:

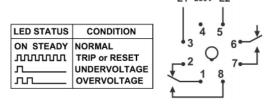
(Delay on Operate)

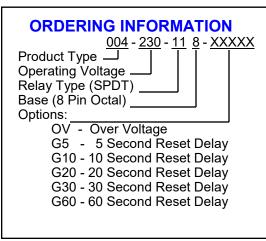
Voltage Range: 200V to 280V

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

Base: Phenolic





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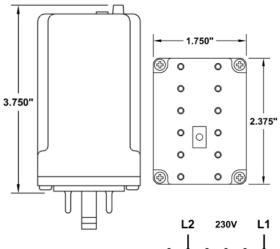
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SPECIFICATIONS

Under Voltage:

Trip: - 15% of 200V-280V Reset: - 12% of 200V-280V

Over Voltage:

Trip: + 15% of 200V-280V Reset: + 12% of 200V-280V

Trip Delay: 5 Seconds

(Delay on Release)

Reset Delay:

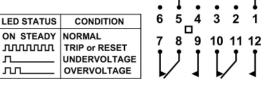
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