Ordering Information - Phase Monitors

Phase Monitor Designations

Example: M.P.E. Product Number
001 - DVM - 118
Product Number Breakdown:

001 - DVM - 11 8 XX

Product Type

001 = Phase Monitor

Relay Type

11 = SPDT
12 = DPDT
DR = DPDT

Customer Options

(None required but can be used in limited combinations)

OV = Over Voltage Protection

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

Operating Voltage

DVM - (Dual Voltage Monitor) (230VAC and 480VAC)

Base Terminal Configuration

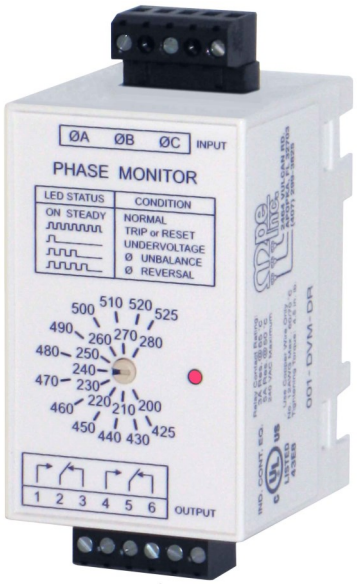
8 = Plug In
8 Pin Round Plug
12 = Plug In
12 Pin Rectangular

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)

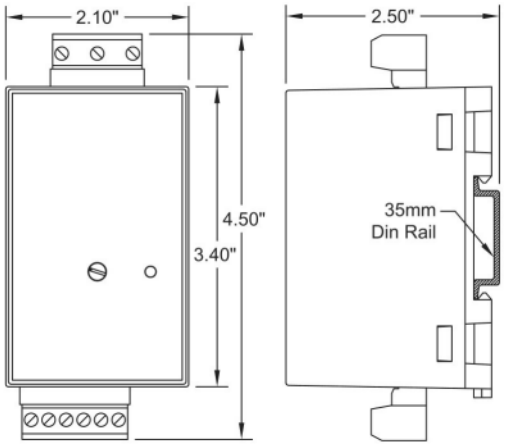
OPERATION

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

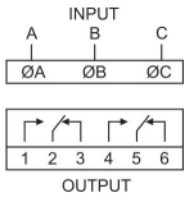
When the proper voltage is connected to the phase monitor the internal relay will be energized and the LED will be on steady. An abnormal condition will cause the LED to blink during the trip delay. When the trip delay has expired the internal relay will be de-energized. The LED will then provide a series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

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
	TRIP or RESET
	UNDERVOLTAGE
	OVERVOLTAGE
	Ø UNBALANCE
	Ø REVERSAL



SPECIFICATIONS

Under Voltage:		
Trip:	- 15% of 200-280V or -10% of 425-525V	
Reset:	- 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:		
Trip:	5% with 5 Second Trip Delay 10% with 1 Second Trip Delay	
Reset:	4%	
Trip Delay: (Delay on Release)	5 Seconds (Delay is Reduced to 1 Second if Phase Unbalance is 10% or Greater)	
Reset Delay: (Delay on Operate)	2 Seconds Standard (See Options)	
Input Voltage Range:	200V to 280V or 425V to 525V	
Output Voltage Rating:	240VAC Maximum	
Output Current Rating:	3A* @ -40°C to +65°C 5A* @ -40°C to +50°C	*Total Load on Both Outputs
Storage Temp:	-45°C to +85°C	
Enclosure:	White Plastic	

ORDERING INFORMATION

001 - DVM - DR - XXXXX

Product Type
Operating Voltage (Dual Voltage)
Din Rail 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

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

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.

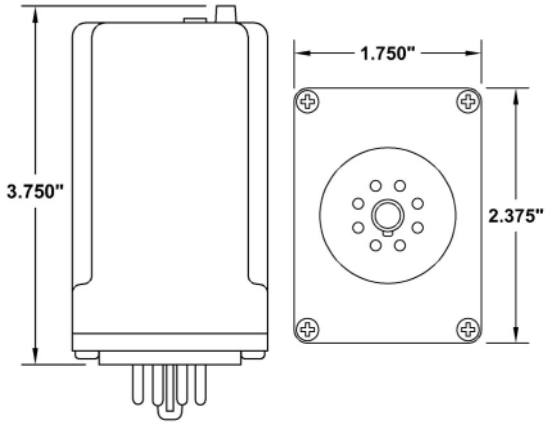
OPERATION

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

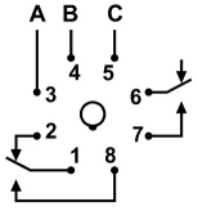
When the proper voltage is connected to the phase monitor the internal relay will be energized and the LED will be on steady. An abnormal condition will cause the LED to blink during the trip delay. When the trip delay has expired the internal relay will be de-energized. The LED will then provide a series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

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
	TRIP or RESET
	UNDERVOLTAGE
	OVERVOLTAGE
	Ø UNBALANCE
	Ø REVERSAL



SPECIFICATIONS

Under Voltage:	
Trip:	- 15% of 200-280V or -10% of 425-525V
Reset:	- 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:	
Trip:	5% with 5 Second Trip Delay 10% with 1 Second Trip Delay
Reset:	4%
Trip Delay: (Delay on Release)	5 Seconds (Delay is Reduced to 1 Second if Phase Unbalance is 10% or Greater)
Reset Delay: (Delay on Operate)	2 Seconds Standard (See Options)
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
Base:	Phenolic

ORDERING INFORMATION

001 - DVM - 11 8 - XXXXX

Product Type
Operating Voltage (Dual Voltage)
Relay Type (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

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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 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 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.

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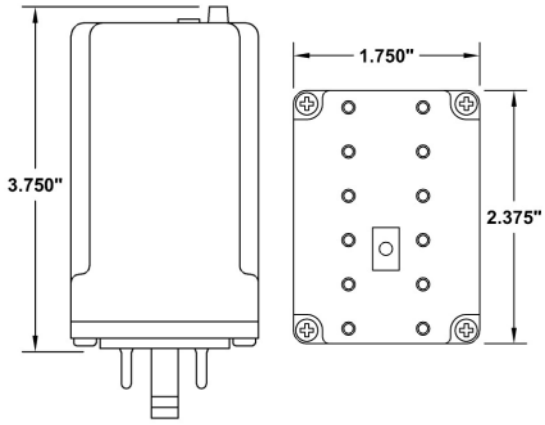
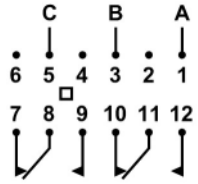
To extend the standard Reset Delay select one of the G options.



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



SPECIFICATIONS

Under Voltage:	
Trip:	- 15% of 200-280V or -10% of 425-525V
Reset:	- 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:	
Trip:	5% with 5 Second Trip Delay 10% with 1 Second Trip Delay
Reset:	4%
Trip Delay: (Delay on Release)	5 Seconds (Delay is Reduced to 1 Second if Phase Unbalance is 10% or Greater)
Reset Delay: (Delay on Operate)	2 Seconds Standard (See Options)
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
Base:	Phenolic

ORDERING INFORMATION

001 - DVM - 12 12 - XXXXX

Product Type
Operating Voltage (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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