

## FEATURES

- Voltage Monitoring 3-Phase
- 208V/120V to 480V/277V
- Multi Function
- 1 x DPDT Output
- 17.5mm Wide Compact Design

## FUNCTIONS

- Phase Failure
- Phase Sequence
- Phase Assymetry (adjustable)
- Tripping Delay



## SPECIFICATIONS

## Supply Circuit

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| <b>Terminals/Connections</b>    | L1, L2, L3                                        |
| <b>Supply Voltage</b>           | Measuring Voltage<br>( 208V/120V - 480V/277V)     |
| <b>Supply Voltage Tolerance</b> | -10% .. +10%                                      |
| <b>Rated Frequency [Hz]</b>     | 48..63Hz                                          |
| <b>Power Consumption</b>        | 1W/ 10VA (400V/ 50Hz),<br>1.5W/ 16VA (480V/ 60Hz) |
| <b>Duty Cycle</b>               | 100%                                              |
| <b>Reset Time</b>               | 500 ms                                            |
| <b>Drop-out Voltage</b>         | >20% supply                                       |
| <b>Overvoltage Category</b>     | III (IEC 60664-1)                                 |
| <b>Rated surge Voltage</b>      | 4kV                                               |

## Time Delays

|                                  |         |
|----------------------------------|---------|
| <b>Start-up Suppression time</b> | N/A     |
| <b>Trip Delay</b>                | 0.1-10s |

## Indicators

|                           |                          |
|---------------------------|--------------------------|
| <b>Green LED ON</b>       | Supply Voltage present   |
| <b>Red LED ON</b>         | Indicator Failure        |
| <b>Red LED Flashes</b>    | Indicator Tripping Delay |
| <b>Yellow LED ON/ OFF</b> | Indicator Relay Output   |

## Mechanical/ Environmental Specs

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Housing Material</b>        | V2                                    |
| <b>Protection Degree</b>       | IP20 (Enclosure)<br>IP20 (Terminals)  |
| <b>Mounting</b>                | DIN Rail                              |
| <b>Mounting Position</b>       | any                                   |
| <b>Dimensions</b>              | 17.5 x 87 x 49 mm                     |
| <b>Stripping Length</b>        | 7 mm                                  |
| <b>Terminal Torque</b>         | 1.0 Nm (8.5 lb.in)                    |
| <b>Wire Size Terminals</b>     | 20-14AWG                              |
| <b>Ambient Temperature IEC</b> | -25..+55°C (IEC 60068-1)              |
| <b>Ambient Temperature UL</b>  | -25..+40°C (UL 508)                   |
| <b>Storage Temperature</b>     | -25..+70 °C                           |
| <b>Transport Temperature</b>   | -25..+70 °C                           |
| <b>Relative Humidity</b>       | 15%..85%<br>(IEC 60721-3-3 class 3K3) |
| <b>Vibration Resistance</b>    | 10..55 Hz 0.35 mm (IEC 60068-2-6)     |
| <b>Shock Resistance</b>        | 15 g 11 ms (IEC 60068-2-27)           |
| <b>Pollution Degree</b>        | 3 (IEC 60664-1)                       |
| <b>Installation Altitude</b>   | Up to 2000 m above sea level          |

## Output Circuit

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Output Configuration</b>  | 1 x DPDT (C/O)                                                                                |
| <b>Terminals Output</b>      | 11/12/2014                                                                                    |
| <b>Output Contact Rating</b> | 5A/ 250VAC                                                                                    |
| <b>Mechanical Life</b>       | 2 x 105 Switching cycles (1000 VA)                                                            |
| <b>Electrical Life</b>       | 17.5 x 87 x 49 mm                                                                             |
| <b>Utilization Category</b>  | AC 15                                                                                         |
| <b>Switching Frequency</b>   | max. 60/min @ 100 VA resistive load<br>max. 6/min @ 1000 VA<br>resistive load (IEC 60947-5-1) |
| <b>Rated Surge Voltage</b>   | 4kV                                                                                           |
| <b>Overvoltage Category</b>  | III (IEC 60664-1)                                                                             |

## Measuring Circuit

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Measurand</b>            | Voltage, 3-Phase (48-63Hz)  |
| <b>Measuring Range</b>      | 208V/120V - 480V/277V       |
| <b>Terminals</b>            | L1, L2, L3                  |
| <b>Overload Capacity</b>    | Tolerance of Supply voltage |
| <b>Input Resistance</b>     | N/A                         |
| <b>Assymetry Threshold</b>  | 5% - 25%                    |
| <b>Rated surge Voltage</b>  | 4kV                         |
| <b>Overvoltage Category</b> | III (IEC 60664-1)           |

## Accuracy

|                              |             |
|------------------------------|-------------|
| <b>Base Accuracy</b>         | ≤5%         |
| <b>Adjustment Accuracy</b>   | ≤5%         |
| <b>Repetition Accuracy</b>   | +/-2%       |
| <b>Voltage Influence</b>     | N/A         |
| <b>Temperature Influence</b> | ≤0.05% / °C |
| <b>Frequency Response</b>    | N/A         |

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