

FEATURES

- Voltage Monitoring 1-Phase
- 24 VAC, 24 VDC, 230 VAC
- Multi Function
- 1 x DPDT Output
- 17.5mm Wide Compact Design

FUNCTIONS

- Undervoltage Monitoring
- Phase Sequence Monitoring



SPECIFICATIONS

Supply circuit

Terminals/Connections	E-F1+ (24 VDC), E-F2 (24 VAC), E-F3 (230 VAC)
Supply Voltage	Measuring Voltage (24 VAC/DC, 230 VAC)
Supply Voltage Tolerance	-25% .. +20%
Rated frequency [Hz]	48..63Hz (AC)
Power Consumption	0.6W (24 VDC), 0.8W/ 1.3VA (24 VAC), 0.6W/ 10VA (230 VAC)
Duty Cycle	100%
Reset Time	500ms
Drop-out Voltage	see undervoltage detection
Overvoltage Category	III (IEC 60661-1)
Rated Surge Voltage	4kV

Time Delays

Start-up Suppression time	N/A
Trip Delay	N/A

Indicators

Green LED ON	Supply Voltage present
Red LED OFF	Failure of corresponding threshold
Red LED ON/OFF	Indicator Relay Output

Mechanical/ Environmental Specs

Housing Material	V2
Protection Degree	IP40 (Enclosure) IP20 (Terminals)
Mounting	DIN Rail
Mounting Position	any
Dimensions	17.5 x 87 x 49 mm
Stripping Length	7 mm
Terminal Torque	1.0 Nm (8.5 lb.in)
Wire Size Terminals	20-14AWG
Ambient Temperature IEC	-25..+55°C (IEC 60068-1)
Ambient Temperature UL	-25..+40°C (UL 508)
Storage Temperature	-25..+70 °C
Transport Temperature	-25..+70 °C
Relative Humidity	15%..85% (IEC 60721-3-3 class 3K3)
Vibration Resistance	10..55 Hz 0.35 mm (IEC 60068-2-6)
Shock Resistance	15 g 11 ms (IEC 60068-2-27)
Pollution Degree	3 (IEC 60664-1)
Installation Altitude	Up to 2000 m above sea level

Output Circuit

Output Configuration	1 x DPDT (C/O)
Terminals Output	11/12/2014
Output Contact Rating	5A/ 250VAC
Mechanical Life	20 x 10 ⁶ Switching cycles
Electrical Life	2 x 10 ⁵ Switching cycles (1000 VA)
Utilization Category	AC 15
Switching Frequency	max. 60/min @ 100 VA resistive load max. 6/min @ 1000 VA resistive load (IEC 60947-5-1)
Rated Surge Voltage	4kV
Overvoltage Category	III (IEC 60664-1)

Measuring circuit

Measured Variable	Voltage, 1-Phase, 24 VAC/ DC, 230 VAC (48-63Hz)
Measuring Range 1	24 VDC
Terminals Range 1	E-F1+
Measuring Range 2	24 VAC
Terminals Range 2	E-F2
Measuring Range 3	230 VAC
Terminals Range 3	E-F3
Overload Capacity	120% of Supply
Input Resistance	N/A
Switching Threshold Minimum	N/A
Switching Threshold Maximum	N/A
Rated Surge Voltage	4kV
Overvoltage Category	III (IEC 60664-1)

Accuracy

Base Accuracy	≤5% (nom. value)
Adjustment Accuracy	+/-5% (nom. value)
Repetition Accuracy	≤2% (nom. Value)
Voltage Influence	N/A
Temperature Influence	≤0.05% / °C
Frequency Response	N/A

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