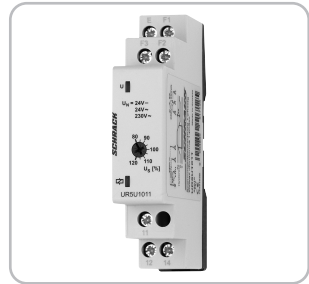


UR5U1011

Monitoring relays



- AC/DC voltage monitoring in 1-phase mains
- Undervoltage monitoring
- 1 change over contact
- Width 17.5 mm
- Installation design

Technical data

1. Functions

AC/DC undervoltage monitoring in 1-phase mains with adjustable threshold and fixed hysteresis.

UNDER Undervoltage monitoring

2. Time ranges

Tripping delay (Delay): Adjustment range -

3. Indicators

Green LED ON/OFF: indication of supply voltage
Yellow LED ON/OFF: indication of relay output

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
Mounted on DIN rail TS 35 according to EN 50022
Mounting position: any
Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20
Tightening torque: max. 1Nm
Terminal capacity:
1 x 0.5 to 2.5mm² with/without multicore cable end
1 x 4mm² without multicore cable end
2 x 0.5 to 1.5mm² with/without multicore cable end
2 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage: (= measuring voltage)
Terminals:
230V AC E-F3
24V AC E-F2 (distance > 5mm)
24V DC E-F1(+)
Rated voltage Un: see table ordering information or printing on the unit
Tolerance: -25% to +20% of Un
Rated consumption:
230V AC 10VA (0.6W)
24V AC 1.3VA (0.8W)
24V DC 0.6W
Rated frequency: AC 48 to 63Hz
Duration of operation: 100%
Reset time: 500ms
Wave form: DC, AC Sinus
Hold-up time: -
Drop-out voltage: >60% of supply voltage
Overvoltage category: III (according to IEC 60664-1)
Rated surge voltage: 4kV

6. Output circuit

1 potential free change over contact
Rated voltage: 250V AC
Switching capacity: 1250VA (5A / 250V)
Fusing: 5A fast acting
Mechanical life: 20 x 10⁶ operations
Electrical life: 2 x 10⁶ operations at 1000VA resistive load

Switching frequency: max. 60/min at 100VA resistive load
max. 6/min at 1000VA resistive load (according to IEC 947-5-1)
Overvoltage category: III. (according to IEC 60664-1)
Rated surge voltage: 4kV

7. Measuring circuit

Measuring variable: DC or AC Sinus, 48 to 63Hz
Measuring input: (= supply voltage)
Terminals:
230V AC E-F3
24V AC E-F2
24V DC E-F1(+)
Overload capacity: 120% of Un
Input resistance: -
Switching threshold Us: see table ordering information or printing on the unit
Hysteresis H: see table ordering information or printing on the unit
Overvoltage category: III (according to IEC 60664-1)
Rated surge voltage: 4kV

8. Accuracy

Base accuracy: ±5% of rated value
Adjustment accuracy: ±5% of rated value
Repetition accuracy: ≤2% of rated value
Voltage influence: -
Temperature influence: 0,05% / °C

9. Ambient conditions

Ambient temperature: -25 to +55°C (according to IEC 68-1)
Storage temperature: -25 to +70°C
Transport temperature: -25 to +70°C
Relative humidity: 15% to 85% (according to IEC 721-3-3 class 3K3)
Pollution degree: 2, if built in 3 (according to IEC 664-1)
Vibration resistance: 10 to 55 Hz 0.35mm (according to IEC 68-2-6)
Shock resistance: 15g 11ms (according to IEC 68-2-27)

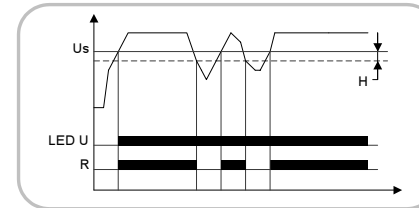
10. Weight

Single packing: 74g
Package of 10pcs: 676g per Package

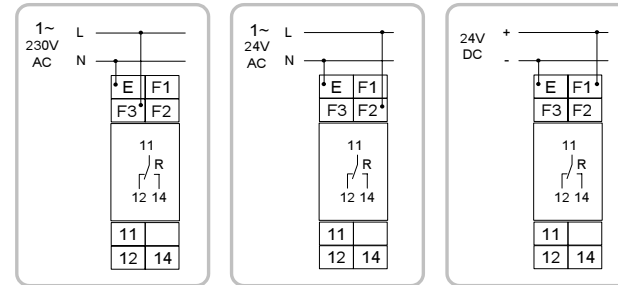
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Functions

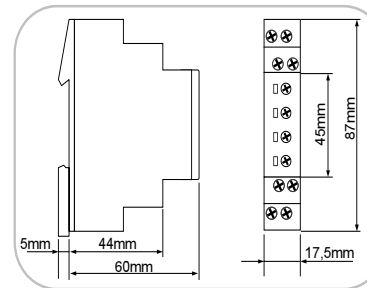
The supply voltage U must be constantly applied to the device (green LED illuminated).
The output relay R switches into on-position (yellow LED illuminated) when the measured voltage U exceeds the value adjusted at the Us-regulator. The output relay R switches into off-position (yellow LED not illuminated) when the measured value for the voltage falls below the set value by more than the fixed hysteresis.



Connections



Dimensions



Danger!

Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of an obvious damage. To be installed by an authorized person.