OVERVOLTAGE RELAY

RUWH-P

- Monitoring of .....: Alternating voltage
- Message of .....: Overvoltage
- with adjustable hysteresis and time delay
- without auxiliary voltage

CE

Function description

The RUWH-P measuring relay is used to monitor overvoltages in alternating current grids. It provides 2 floating changeover contacts as a message output.

If the relay is connected to the nominal voltage, then the green LED is illuminated and the output contacts 2 - 4 and 8 - 10 are closed. If the alternating voltage is above the trigger value, then the display changes from the green to the red LED. If the exceedance takes longer than the set delay time, then the relay is actuated and the output contacts 4 - 6 and 10 -12 will be closed.

The contacts switch immediately if the trigger value plus the set hysteresis has been undershot. The trigger value, the hysteresis and the time delay are continuously adjustable.

The contact position in the circuit diagram is valid for a condition without voltage and for normal operating voltage.

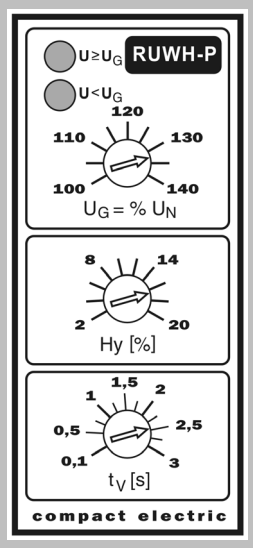
Housing: Plastic housing type KS1-01 (S&S) with locking bracket, matching the plug base "U" for fastening on a mounting plate or plug base "K" with adapter for rail installation, screw connections max 2x4 mm^2.

Technical data

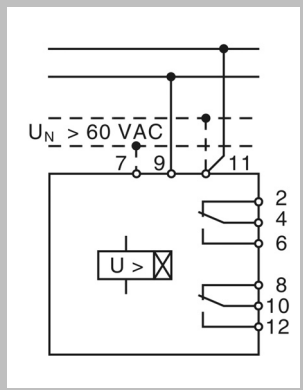
(Special specifications on request)

Nominal voltage U_N ..... :	110 V AC, 230 V AC
Adjustment range U_G .....:	100 - 140 % U_N
Hysteresis .....:	2 - 20 % of the trigger value
Time delay t_v .....:	0.1 - 3 s or 1 - 10 s,
Nominal consumption .....:	app. 2 VA
Time to return to standby after power loss .....:	0.3 s max.
Frequency range .....:	45 - 60 Hz
Operating ambient temperature :	0 - +60 °C

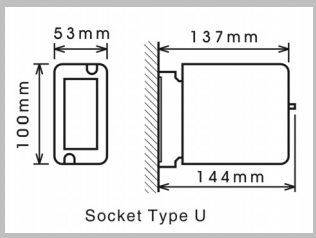
When ordering, please list **nominal voltage and time delay**.

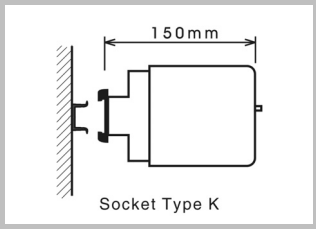


front view



wiring diagram





dimensions

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Output contacts (2 changeover contacts)

Nominal/max. switching voltage ..... :	250 V / 440 V AC
Nominal/starting current .....:	8 A (UL: 10 A) / 14 A AC
Nominal switching capacity .....:	2000 VA (cos φ = 1)
Switching capacity ..... :	250 V / 8 A AC (cos φ = 1)
	220 V / 0.6 A AC (cos φ = 0.8) (1.3 * 10^6 switching cycles)
	300 V / 0.2 A DC
	40 V / 8 A DC
Mechanical service life .....:	20 * 10^6 Switching cycles
Contact material .....:	Ag Cd O

Safety: EN60255-6 10.95

Test voltage in accordance with IEC 255-5 ..... :	Alternating voltage 2.5 kV_{eff} / 1 min
	Surge voltage 5 kV 1.2/50 µs
Mechanical stability .....:	IEC 255-21-1 class 1
	IEC 255-21-2 class 1
	IEC 255-21-3
Usage position .....:	any

Interference resistance

EN50082-2 (Industry) 2.95
IEC 255-22-1 1 MHz Interference test class III (2,5 kV)
IEC 255-22-2 (IEC801-2) ESD Interference resistance class III (8 kV)
IEC 801-3 HF Interference resistance 10 V/m
IEC 255-22-4 (IEC801-4) Burst class III, 2 kV 5/50 ns 5 kHz 15 ms

Maximum EMC influence at nominal operating conditions

Switching point displacement ..... :	≤ 3%
Trigger time displacement ..... :	≤ 10%

Interference emission

EN50081-1 (small industry) 3.92

Protection class ..... :	IP 40
Housing material .....:	Polycarbonate
Burning behavior .....:	UL 94 V-0, self extinguishing
Weight .....:	0.3 kg

Installation information

1) A distance of at least 1.5 cm to other devices and metallic surfaces must be adhered to at the side to guarantee the listed EMC interference resistance.
2) The relay can be secured against pulling off the pedestal using the two locking brackets of the housing. For locking, the brackets must be pressed at the outside notch (with a screwdriver) until they latch into the pedestal. The brackets will be unlocked by pressing the inner notch.

MADE IN AUSTRIA

Subject to technical changes

compact electric

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