

## UNDER / OVER SINGLE-PHASE D.C. VOLTAGE RELAYS



### 1RSLVC - Under voltage relay 1RSHVC - Over voltage relay

- Multiple Choice Inputs: 1V, 5V and 10V (60mV and other voltages on request)
- BURDEN 2W
- FREQUENCY 50 ÷ 60 Hz
- POWER SUPPLY STANDARD 230V 50Hz ±10%
- DC power supplies, galvanically insulated, on request
- ACCURACY 5%
- TEMPERATURE operating -10°C ÷ +55°C / storage -25°C ÷ +70°C
- SIGNALLING operating relay red led light  
power supply (ON) green led light  
operating time flashing green led
- GALVANIC SEPARATION BETWEEN INPUTS AND OUTPUTS
  - insulation between inputs, outputs, power supply 2kV for 1min at 50Hz
  - insulation between the all circuits and earth 4kV for 1min at 50Hz
- OUTPUT RELAY 16A 250V ~ resistive load
- HYSTERESIS 1 ÷ 45% adjustable potentiometer on front
- DELAY TIME 1 ÷ 30 sec adjustable potentiometer on front
- CALIBRATION 30 ÷ 100% adjustable potentiometer on front
- OVERLOADING 2 Vn for 10 sec
- DIMENSIONS / WEIGHT Kg. 3 DIN modules / 0,25
- For the connection diagram see page 91

## INSULATION CONTROL RELAYS



### 1RCI

- POWER SUPPLY 230V CA ±20% (others on request)
- MAXIMUM VOLTAGE OF THE SYSTEM TO CONTROL ≤ 400V CA
- MEASUREMENT VOLTAGE ≤ 24V CC
- FREQUENCY OPERATING AND SYSTEM TO CONTROL 50÷60 Hz
- BURDEN 2 W
- MAXIMUM MEASUREMENT CURRENT ≤ 25µA
- INTERNAL RESISTANCE ≥ 1 Mohm
- CALIBRATION 30÷300 and 300÷800 Kohm adjustable potentiometer on front (the range is selectable by a switch located under a removable section of the upper case wall)
- ACCURACY ±10%
- INSULATION VOLTAGE 2,5 kV for 1 minute
- TEMPERATURE operating -10°C ÷ +55°C / storage -25°C ÷ +70°C
- DIMENSIONS / WEIGHT Kg. 3 DIN modules / 0,35
- For the connection diagram see page 92

The 1RCI is a relay used to monitor the insulation in a singlephase or threephase system, with or without a neutral insulated to earth. This device operates under the principle of a continuous voltage applied between the system voltage and earth. The 1RCI indicates the current absorbed by the system after the application of the aforementioned voltage. The effective value of the insulation resistance of the system is given by the relation between the applied voltage and the current pointed out.

## OVER SPEED CONTROL RELAYS



### 1RSV 1224

- POWER SUPPLY 12 VDC and 24 VDC present on the same relay
- For petrol and diesel engines, input by pick-up
- Speed limit adjustable from 0 to 6000 Hz
- Two output relays: one for engine operating  
the second for the overspeed control
- DIMENSIONS 3 DIN modules
- WEIGHT Kg. 0,19
- For the connection diagram see page 92