

# ZERO SEQUENCE OVERVOLTAGE RELAY DESENSITISED TO THE THIRD HARMONIC

## UB0

  
Microelettrica Scientifica

CAT. B3-91

12-01-99

## GENERAL CHARACTERISTICS

Two basic versions are available:

- UB0/D** function 64 - definite time
- UB0/I** function 64 - inverse time (see curves page 78-79)

On request both versions are available with blocking input and output and with time start output.

## SETTINGS

Settings are made on front face by means of two 8-poles DIP-SWITCHES that allow to obtain a wide and accurate setting range for the trip level as well as for the trip time delay.

## SIGNALIZATIONS

- 1 Green led for signalization of auxiliary supply presence and relay regular operation.
- 1 Red led for trip signalization.
- 1 Yellow led for trip memory.

## COMMANDS

- Test spring lever switch: when pressed it simulates a measured voltage of 2 times the maximum set voltage and allows the complete functional check of the relay and of the trip time delay. In one position test function does not operate the output relays; in the other it also operates the output relays.
- ON-OFF switch which enables or blocks the tripping of the output relays.
- Output relays reset after trip can be:
  - manual by reset push button on front face
  - manual by remote push button connected to the relevant terminals
  - provided on the relay.
  - automatic by connecting a bridge on remote reset terminals.

The trip memory led can be reset only by the front face reset push button.

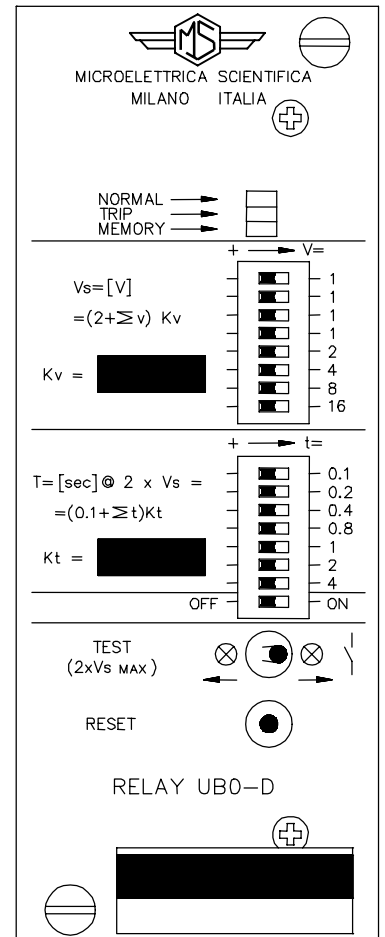
## OUTPUT RELAYS

- Trip signal: 1 relay with two Change-over contacts rating 5A.
- Blocking output or time start signal: 1 relay with one Change-over contact rating 5A.

The output relays are normally deenergized (energized on trip).

On request they can be normally energized (deenergized on trip).

The time start signalling relays are always in the normally deenergized version.



## ORDERING DATA

- Relay Type
- Rated Input Voltage
- Auxiliary Power Supply
- Setting Ranges
- Output Relays Configuration
- Execution
- Options on request

## OPTIONS

On request are provided:

- Blocking input (**BI**).
- Blocking output (**BO**) relay R2.
- Start time output (**TO**) relay R2.

## OVERALL DIMENSIONS

See Overall Dimensions - 1 Module Relay.

## ELECTRICAL CHARACTERISTICS

Rated input voltage	: 100 V-380 V	Burden on input voltage	: 0,03VA @ $V_n = 100\sqrt{3}$
		Burden on supply voltage	: 3W(d.c.); 6VA(a.c.)
Auxiliary power supply	:	Type 1	: 24-110 V d.c./a.c. $\pm 20\%$ permanent
		Type 2	: 90-220 V d.c./a.c. $\pm 20\%$ permanent

## STANDARD SETTING RANGES (Different on request)

### VOLTAGE SETTINGS

#### UB0-D

- $V_s = [2+(0 \div 34)] \times K_v$  passo  $1 \times K_v \times V$
- $K_v = 1 : V_s = (2 \div 36) V$  (\*)
- $K_v = 2 : V_s = (4 \div 72) V$

#### UB0-I

- $V_s = [2+(0 \div 34)] \times K_v$  passo  $1 \times K_v \times V$
- $K_v = 1 : V_s = (2 \div 36) V$
- $K_v = 2 : V_s = (4 \div 72) V$

### TRIP TIME DELAY

- $T = [0.1+(0 \div 8.5)] \times K_t$  [s.]
  - $K_t = 0.5 : T = (0.05 \div 4.3) s$
  - $K_t = 1 : T = (0.1 \div 8.6) s$  (\*)
- 
- $T = [0.1+(0 \div 8.5)] \times K_t$  [s.]
  - $K_t = 0.5 : T = (0.05 \div 4.3) s$  @2XVs
  - $K_t = 1 : T = (0.1 \div 8.6) s$  @2XVs

(\*) Standard version

## WIRING DIAGRAM

