## UNDER or OVER VOLTAGE RELAYS

# UB1/27 - UB1/59 UB3/27 - UB3/59 UBC/80 - UBC/45



#### GENERAL CHARACTERISTICS Six basic versions, all with adjustable definite trip time delay, are available: MICROELETTRICA SCIENTIFICA MILANO ITALIA $(\oplus)$ UB1/27 function 27 - undervoltage single phase function 27 - undervoltage UB3/27 three phase -**UBC/80** function 80 - undervoltage -DC NORMAL **UB1/59** function 59 - overvoltage single phase TRIP MEMOR1 □ UB3/59 function 59 - overvoltage three phase -Vs/Vn a₀+≥a □ UBC/45 function 45 - overvoltage -DC ao 0, 0.2 On request, all versions are fitted with time start output. Кt 2 – T=[sec]= SETTINGS = (1+≥t )Kŧ Settings are made on front face by means of two 4-poles DIP-SWITCH that allow to obtain a wide and accurate setting range of the trip level as well as of the trip time delay. SIGNALIZATIONS 1 Green led for signalization of auxiliary power supply presence and relay regular TEST operation. 1 Red led for trip signalization. □ 1 Yellow led for trip memory. RESET RELAY UB3/27 COMMANDS Test spring lever switch: when operated it simulates a voltage beyond the trip level and allows the complete functional check of the relay. In one position the test function does not operate the output relays; in the other it also operates the ORDERING DATA output relays. Output relays reset after trip can be: - manual by reset push button on front face Relay Type - manual by remote push button connected to the relevant terminals provided on the relay Rated Input Voltage - automatic by connecting a bridge on remote reset terminals. Auxiliary Power Supply The trip memory LED can be reset only by the front face reset push button. Setting Ranges **OUTPUT RELAYS** Two output relays can be provided: Output Relays Configuration R1 relay with two Change-over contacts rating 5A. R2 relay (supplied on request) with one Change-over contact rating 5A. Execution R1 relay is normally deenergized and is energized on trip. On request it can be normally energized and deenergized on trip. Options on Request R2 relay is always in the normally deenergized version (energised on trip).

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### **OPTIONS**

On request it is provided: Time start output **(TO)** on R2 relay.

#### **OVERALL DIMENSIONS**

See Overall Dimensions - 1 Module Relay.

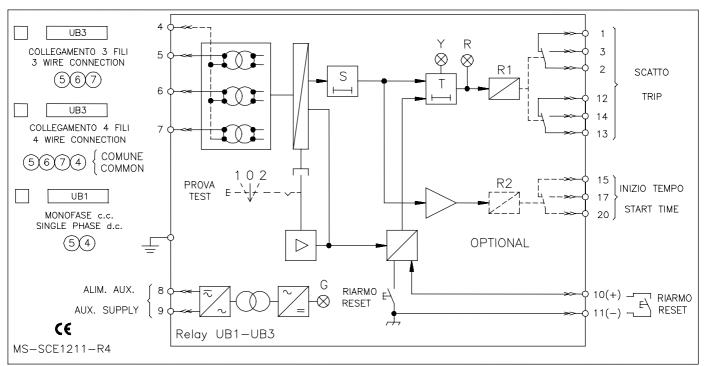
#### **ELECTRICAL CHARACTERISTICS**

Rated input voltage	:	100 V-380 V	Burden on input volt		out voltage	:	0,03VA @ Vn100√3 1VA @ Vn=380V
			Burden or	n po	ower supply	:	3W(d.c.); 6VA(a.c.)
Auxiliary power supply	:		Type 1 Type 2				a.c. $\pm$ 20% permanent a.c. $\pm$ 20% permanent

#### STANDARD SETTING RANGES (Different on request)

VOLTAGE SETTINGS	step of	TIME DELAY SETTINGS step of
$ \begin{split} & V_{s} = a_0 + (0 \div 0.75) \; x \; V_{n} \\ & a_0 = 0.15 : \; V_{s} = (0.15 \div 0.9) \; V_{n} \\ & a_0 = 0.35 : \; V_{s} = (0.35 \div 1.1) \; V_{n} \; \; \textbf{(1)} \\ & a_0 = 0.55 : \; V_{s} = (0.55 \div 1.3) \; V_{n} \; \; \textbf{(2)} \end{split} $	0.05 Vn 0.05 Vn 0.05 Vn	$\begin{array}{llllllllllllllllllllllllllllllllllll$

- (1) Standard on UB/27
- (2) Standard on UB/59
- (3) Standard version



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#### WIRING DIAGRAM