

# XM-17M-VA230 - Voltage monitoring relay, 16 A, 1 C/O

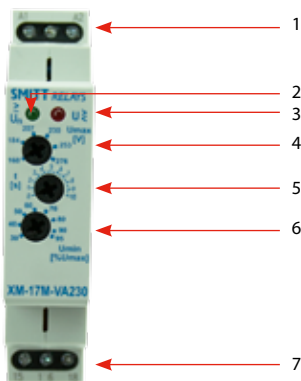
## Manual

### Description

The XM-17M-VA230 is a 1-phase voltage monitoring relay against under- and overvoltage with a range of 48...276 VAC and an adjustable time delay of 0...10 seconds.

The  $U_{max}$  can be set within a range of 160...276 VAC,  $U_{min}$  can be set within 30...95 % of the range of  $U_{max}$ .

### Layout

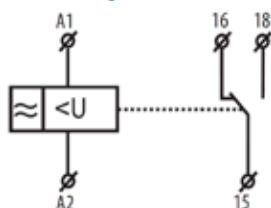


1. Supply terminals
2. Supply indication (green LED)
3. Output indication (red LED)
4.  $U_{max}$  setting
5. Time setting
6.  $U_{min}$  setting
7. Output contacts

### Technical information

Supply voltage	48...276 VAC
Contacts	1 C/O contact
Rated current	16 A / AC1
Inrush current	30 A $\leq$ 3 s
Adj. overvoltage ( $U_{max}$ )	160...276 VAC
Adj. undervoltage ( $U_{min}$ )	35...95 % of $U_{max}$
Ambient temperature	-20 °C...+55 °C

### Connection diagram



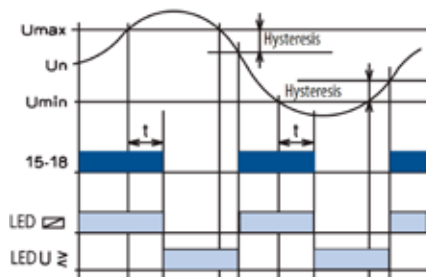
### Connection



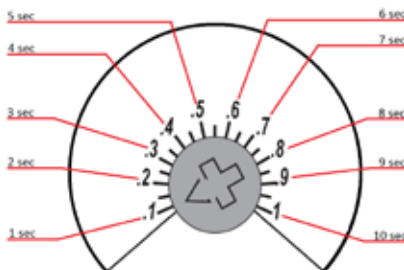
### Function

Energising of the coil will start the measurement. When the voltage drops below the set  $U_{min}$  or overrides the set  $U_{max}$ , the set timing will start.

When the selected time has expired the contact switches

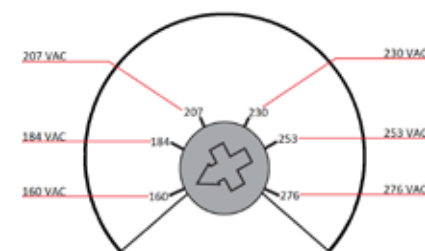


### Time delay setting



The time delay can be set 1...10 seconds.

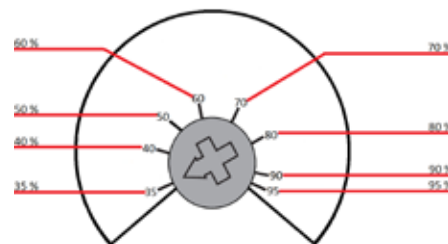
### Overvoltage setting ( $U_{max}$ )



Select the maximum overvoltage.

### Undervoltage setting ( $U_{min}$ )

The undervoltage setting ( $U_{min}$ ) can be set within 35...95% of the selected overvoltage ( $U_{max}$ ).



Example: if the overvoltage setting is 230 VAC, the undervoltage can be set between 69 VAC (35 %) and 218.5 VAC (95 %).

### Installation

- Install and connect wiring according the identification on the terminals and connection diagram
- Do not reverse the polarity of the coil connection
- Relays can be mounted next to each other
- Warning! Never use silicon near the relays

### Operation

- Before first operation; always apply voltage to supply and check correct operation
- Switching the load a few times before first use is advisable
- When the LED is green, coil voltage is indicated
- When the relay does not operate but coil voltage is present, coil polarity can be reversed
- Warning: Do not use the relay in locations with flammable gas, as the arc generated by switching could ignite the gas

### Maintenance

- If the relay does not operate correctly, check the presence of the coil voltage by using a multimeter
- If the relay does not work after inspection, replace the relay by a similar model



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