

XM-17M-VA230 relay - Voltage monitoring, Datasheet

1 C/O, 16 A



Description

The XM-17M-VA230 is monitoring voltage relay. The monitored voltage serves also as supply voltage. When the voltage increases or decreases the relay will switch, depending of the set U_{min} and U_{max}. As well U_{min} as U_{max} can be monitored independently from each other.

A adjustable time delay can be set between 0 and 10 seconds to eliminate short voltage drops or peaks. The 3-state LED will give a indication depending of the status of the relay, normal state and 2 fault states.

Application

Monitoring voltage level in 1-phase circuits. Serves to control supply voltage for appliances sensitive to supply tolerance, protection of the device against under and overvoltage.

Features

- Voltage monitoring relay
- Monitored voltage serves also as supply voltage
- U_{max} and U_{min} can be monitored independently
- Voltage U_{min} adjusted as % of U_{max}
- Adjustable time delay 0...10 s
- 1 C/O contact 16 A / AC1
- 35 mm rail mounting
- Output status by LED indicator
- Universal supply voltage 48...276 VAC
- Modular housing, 1 module

Benefits

- Rated current 16 A / AC1
- Long term availability
- 17.6 mm wide
- No maintenance

Industry compliancy

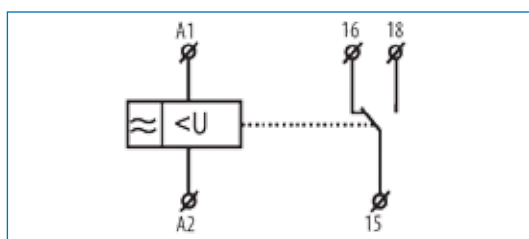
All our relays and accessories are designed according to regulations:

- EN 60255-6
- EN 61010-1
- CE

XM-17M-VA230

Technical specifications

Connection diagram



Time range

Time ranges	Adjustable 0 - 10 s
Time setting	Potentiometer
Setting accuracy	5 %
Repeat accuracy	<1 %

Output

Number of contacts	1x change-over / SPDT (AgNi/silver alloy)
Rated current	16 A / AC1
Breaking capacity	4000 VA / AC1, 384 W / DC
Inrush current	30 A / < 3 s
Switching voltage	250 V AC1 / 24 V DC
Min. breaking capacity DC	500 mW
Output indication	Red / green LED
Mechanical life	30 x 10 ⁶ operations
Electrical life (AC1)	7 x 10 ⁴ operations

Supply and measuring

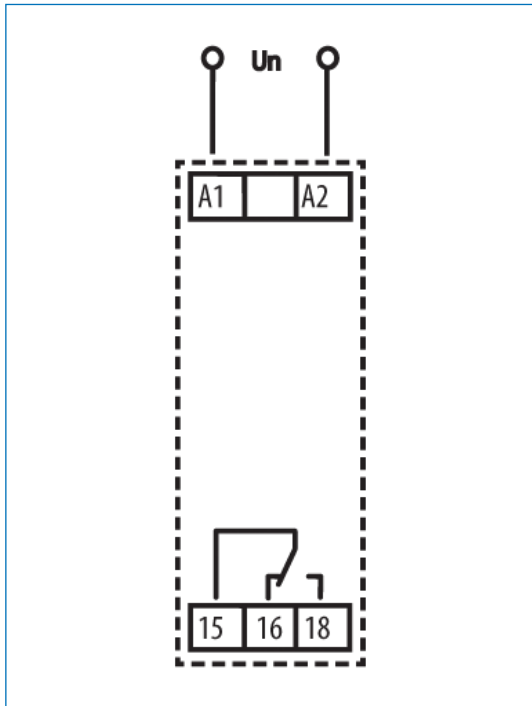
Supply terminals	A1 - A2
Supply voltage	48 - 276 VAC 50 Hz
Consumption	AC 1.2 VA
Upper level (U _{max})	160 - 276 VAC
Bottom level (U _{min})	30 95 % U _{max}
Max. permanent	276 VAC
Peak overload	290 VAC



XM-17M-VA230

Technical specifications

Connection



Environmental conditions

Operating temperature	-20.. +55 °C
Storage temperature	-30.. +70 °C
Electrical strength	4 kV (supply - output)
Operating position	Any
Mounting	35 mm rail EN 60715
Protection degree	IP40 front panel
Overvoltage category	III.
Pollution degree	2
Max. cable size	solid wire max. 1x 2.5 or 2x1.5 mm ² / with sleeve max. 1x2.5 mm ²

Mechanical data

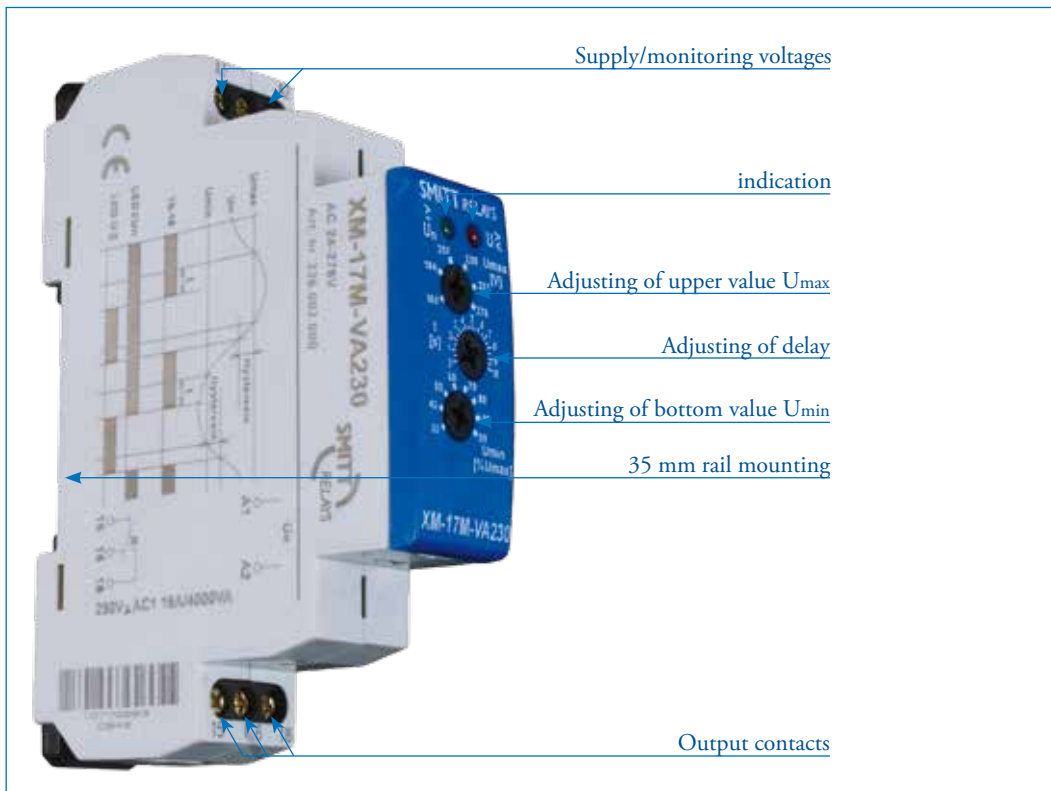
Dimensions (d, w, h)	90 x 17.6 x 64 mm
Weight	61 g
Standard	EN 60255-6, EN 61010-1



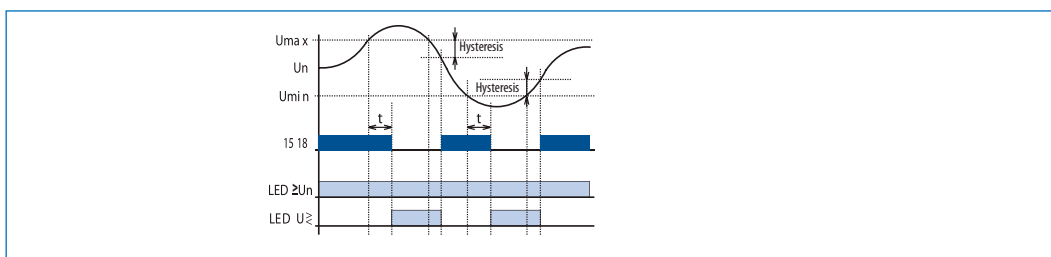
XM-17M-VA230

Technical specifications

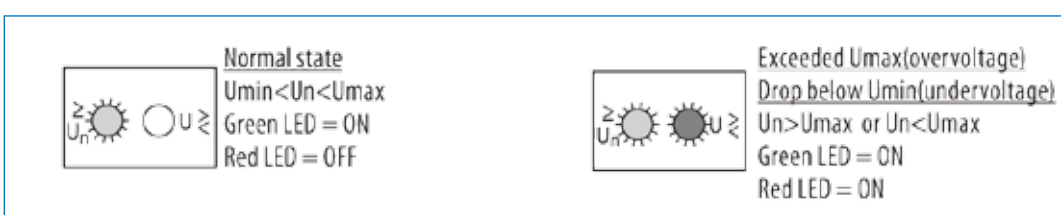
Design



Functions



LED indication



XM-17M-VA230

Ordering codes

Art. no.	Type	Function	Contacts	Voltage range
326001027	XM-17M-IA25U	AC 1-phase current monitoring	1 C/O	230 VAC 50/60 Hz
326002003	XM-17M-M400L	AC 3-phase voltage monitoring	1 C/O	3x 400 VAC 50 Hz
326002004	XM-17M-M400LN	AC 3-phase + N voltage monitoring	1 C/O	3x 400 VAC / 230 VAC 50 Hz
326002000	XM-17M-VA230	AC 1-phase voltage monitoring	1 C/O	48-276 VAC 50 Hz
326002002	XM-17M-2XVA230	AC 1-phase voltage monitoring	2x 1 C/O	48-276 VAC 50 Hz
326002011	XM-17M-VA400LN	AC 3-phase + N voltage monitoring	1 C/O	3x 400 VAC / 230 VAC 50 Hz
326002001	XM-17M-VD24	DC 1-phase voltage monitoring	1 C/O	6-30 VDC
326002006	XM-52M-M400L	AC 3-phase complete monitoring	2 C/O	230 VAC / 400 VAC 50/60 Hz
326002007	XM-52M-M400LN	AC 3-phase + N voltage monitoring	2 C/O	230 VAC / 400 VAC 50/60 Hz
326002005	XM-52M-VA500	AC/DC 1-phase voltage monitoring	2 C/O	10-500 VAC/DC 50 Hz





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