

XM-52M-VA500 - Voltage monitoring relay, 16 A, 2 C/O Manual

Description

The XM-52M-VA500 is a 1-phase voltage monitoring relay with 3 measuring ranges:

- 10...50 VAC (terminal C-B1)
- 32...160 VAC (terminal C-B2)
- 100...500 VAC (terminal C-B3)

The relay is equipped with 2 C/O contacts. Via the output dipswitch the overvoltage (U_{max}) and undervoltage (U_{min}) are separately adjustable. Or both types have the same function.

The adjustable time delay is set between $1 \, s... 10 \, s.$ Umax and Umin can be set within 20...100 % of the selected measuring range.

Layout

See back page.

Technical information

Supply voltage	230 VAC
Measuring range	C-B1 1050 VAC/DC
	C-B2 32160 VAC/DC
	C-B3 100500 VAC/DC
Contacts	2 C/O contacts
Rated current	16 A / AC1
Inrush current	30 A <u><</u> 3 s
Adj. overvoltage (Umax)	20100 % of sel. range
Adj. undervoltage (Umin)	20100 % of sel. range
Ambient temperature	-20 °C+55 °C



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Connection diagram



Connection



Function

When energising the coil the relay will start voltage monitoring. The overvoltage (U_{max}) and undervoltage (U_{min}) are separately adjustable in % of controlled rated voltage range.

Selectable function 'Memory' which keeps the faulty state until pressing 'Reset'.

Dipswitch no 3: There is option of output relay state separately switching foreach level or parallel switching by overrunning any voltage level.

Dipswitch no 4: Adjusting of hysteresis, which is shown by passing from faulty to normal state.

The relay has protection against poling of DC voltage or incorrectly chooses AC-DC voltage (indicated by blinken Un LED).



Time delay setting

The time delay can be set between 0...10 s.



Undervoltage setting (Umin)

The undervoltage (Umin) can be set within 20...100 % of the connected range.



Example: if the range is 160 V, the overvoltage (Umin) can be set between 32 V (20 %) and 160 V (100 %).

Overvoltage setting (Umax)



The overvoltage (Umax) can be set within 20...100 % of the connected range.

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• 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