

XM-52M-M400LN relay- 3-phase+N Datasheet monitoring, 2 C/O, 16 A



Description

The XT-52M-M400LN is 3-phase voltage relay for phase failure, phase sequence and exceeding of monitored voltage in 3-phase circuits +N. An adjustable time delay can be set between 0 and 10 seconds to eliminate short voltage drops or peaks. The 4 LEDs will give a indication depending of the status of the relay.

Application

Monitoring phase failure, phase sequence and exceeding of monitored voltage in 3-phase circuits with neutral for general purpose applications.

Features

- Monitors voltage 3 x 400 / 230 VAC
- Monitors 3-phase + N phase failure, phase sequence, asymetry and exceeding of set voltage
- Adjustable time delay 0 - 10 s
- 2 C/O contact 16 A / AC1
- Supply voltage 230 VAC
- 35 mm rail mounting
- Output status by LED indicator
- Modular housing, 3 modules

Benefits

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

Industry compliancy

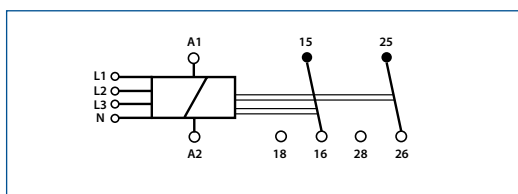
All our relays and accessories are designed according to regulations:

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

XM-52M-M400LN

Technical specifications

Connection diagram



Time range

Time range T1	Fixed, max. 200 ms
Time range T2	Adjustable 0 - 10 s
Time setting	Potentiometer

Measuring range

Nominal voltage	3x 400 V / 230 V 50 Hz
Terminals	L1, L2, L3, N
Upper level U_{max}	138 - 276 V
Bottom level U_{min}	35 - 99% U_{max}
Max. permanent overload	3x 480 V
Hysteresis	Adjustable 5% or 10 % of set value
Asymetry	5 - 20 %
Peak overload < 1 ms	350 V < 1 ms

Accuracy

Set. accuracy	5%
Repeat accuracy	< 1%
Temperature dependence	< 0.1% / °C
Limit values tolerance	5%

Output

Number of contacts	2x 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 VDC
Min. breaking capacity DC	500 mW
Output indication	LED
Mechanical life	4 x 10 ⁶ operations
Electrical life (AC1)	7 x 10 ⁴ operations



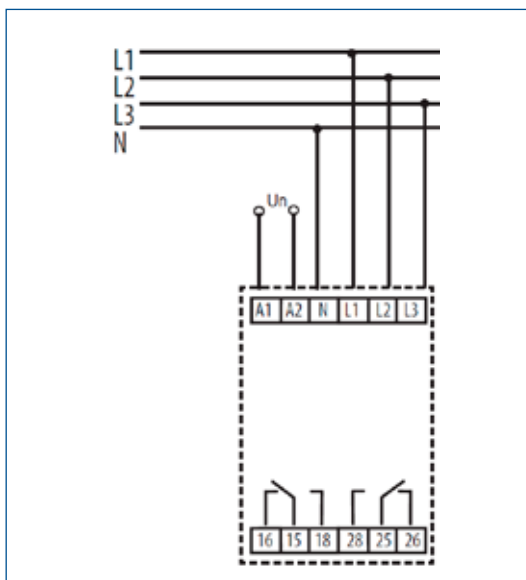
XM-52M-M400LN

Technical specifications

Supply

Supply terminals	A1, A2
Supply voltage	230 VAC
Burden	Max. 4.5 VA
Supply voltage tolerance	0.85...1.1 Un

Connection



Environmental conditions

Operating temperature	-20 °C... +55 °C
Storage temperature	-30 °C... +70 °C
Electrical strength	4 kV (supply - output)
Operating position	Any
Mounting	35 mm rail EN 60715
Protection degree	IP40 front panel, IP20 terminals
Overvoltage category	III
Pollution degree	2
Max. cable size	Solid wire maximum 1 x 2.5 or 2 x 1.5 mm ² With sleeve maximum 1 x 1.5 mm ²

Mechanical data

Dimensions (d x w x h)	90 x 52 x 65 mm
Weight	239 g



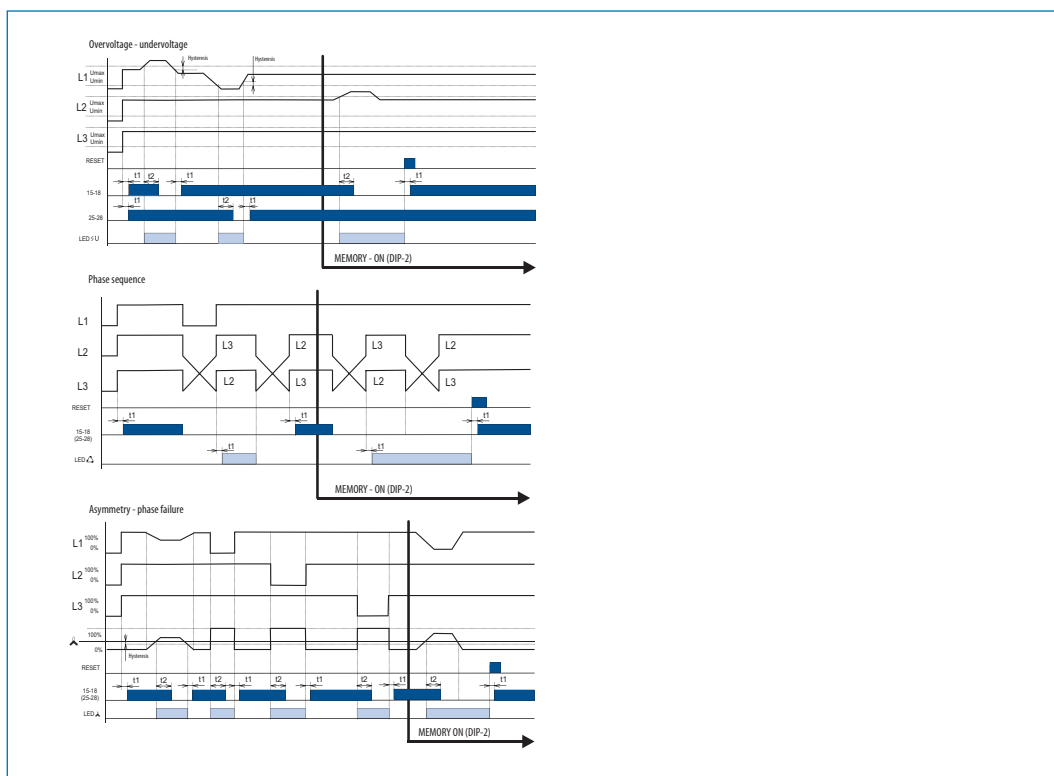
XM-52M-M400LN

Technical specifications

Design

1. Memory function
2. Function of 2nd relay (1st-parallel, 2nd-independent)
3. Hysteresis from faulty to OK normal state
4. Supply voltage
5. Indication overvoltage/undervoltage, failure
6. Sequence indication
7. Asymmetry indication
8. Time delay T2
9. Adjusting upper level – Umax
10. Asymmetry 5-20 % setting
11. Adjusting bottom level - Umin

Functions



XM-52M-M400LN

Technical specifications

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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