



# XM-52M-M400L - 3-phase monitoring relay, Datasheet 2 C/O, 16 A



#### Description

The XT-52M-M400L is 3-phase voltage relay for phase failure, phase sequence and exceeding of monitored voltage in 3-phase circuits where no neutral is present. A adjustable time delay can be set between 0 and 10 seconds to eliminate short voltage drops or peaks. The 4 LEDs will give an indication depending of the status of the relay.

#### **Application**

Monitoring phase failure, phase sequence and exceeding of monitored voltage in 3-phase circuits without neutral for general purpose applications.

#### **Features**

- Monitors voltage 3 x 400
- Monitors 3-phase 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

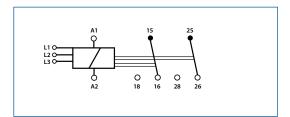
All our relays and accessories are designed according to regulations:

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





### **Connection diagram**



### Time range

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

### Measuring range

Nominal voltage	3x 400 V / 50 Hz		
Terminals	L1, L2, L3		
Upper level Umax	240580 V		
Bottom level Umin	3599% Umax		
Max. permanent overload	3x 480 V		
Hysteresis	Adjustable 5% or 10 % of set value		
Asymetry	5 -20%		
Peak overload < 1 ms	600 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	$4 \times 10^6$ operations	
Electrical life (AC1)	$7 \times 10^4$ operations	
	-	

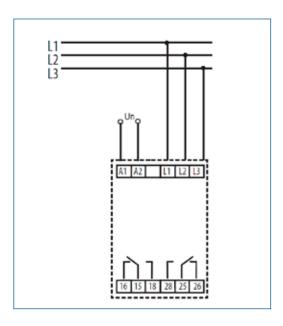




### Supply

Supply terminals	A1, A2
Supply voltage	230 VAC
Burden	Max. 4.5 VA
Supply voltage tolerance	0.851.1 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 <sup>2</sup>
	with sleeve maximum 1 x 1.5 mm <sup>2</sup>

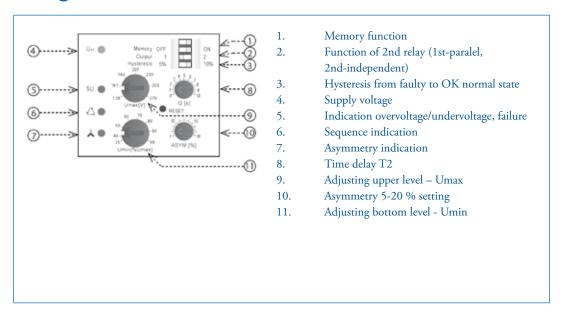
### Mechanical data

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

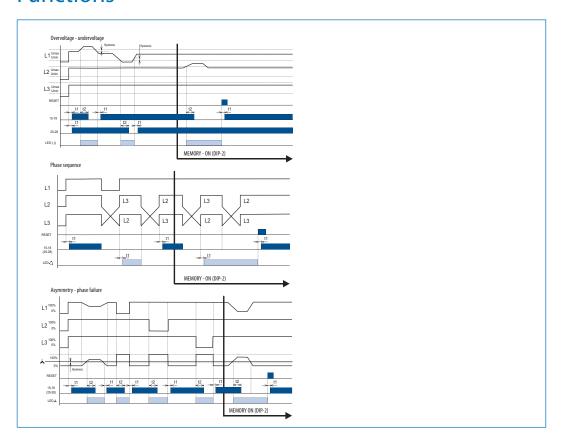




### Design



#### **Functions**







Art. no.	Туре	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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