

# XM-17M-IA25U relay - 1-phase 25 A current monitoring, 1 C/O, 8 A

## Datasheet



### Description

The XT-17M-IA25U relay monitors the current level in 1-phase AC circuits. Slight setting of release current level makes the relay suitable for many applications. Output relay is in normal state switched off. When set current level is overrun, the relay closes after preset delay. By return from error to normal status hysteresis is used.

Advantage of the XT-17M-IA25U relay is the hole for threaded conductor, located under the level for covering in the switchboard. This way the threaded conductor is not accessible for unwanted manipulation.

The measuring range can be increased by optional current transformers.

### Application

Modular monitoring AC current relay for 1-phase circuits. Suitable for general purpose applications.

#### Features

- AC current monitoring relay 25 A
- Measuring range up to 600 A (with current transformer)
- Current adjustment by potentiometer
- Supply galvanic separated from measuring current
- 1 C/O contact 8 A / AC 1
- 35 mm rail mounting
- Output status by LED indicator
- Supply voltage 230 VAC 50/60 Hz
- Modular housing, 1 module
- Optional: external transformer

#### Benefits

- Rated current 8 A / AC1
- Long term availability
- 17.6 mm wide
- No maintenance

#### Industry compliance

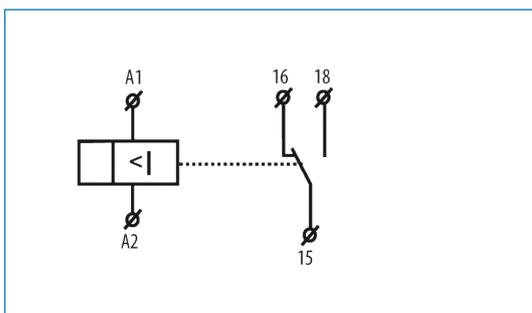
All our relays and accessories are designed according to regulations:

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

# XM-17M-IA25U relay

## Technical specifications

### Connection diagram



### Measuring circuit

Current range	0.5...25 AAC 50 Hz
Max. permanent current	25 A
Inrush overload	Max. 100 A < 10 s
Current adjustment	Potentiometer
Time delay	Adjustable 0.5...10 s

### Output

Number of contacts	1x change-over contact / SPDT (AgNi/silver alloy)
Rated current	8 A / AC1
Breaking capacity	2500 VA / AC1, 240 W / DC
Output indication	Red LED

### Accuracy

Setting accuracy	10 %
Repeat accuracy	< 1 %
Temperature dependance	< 0.2 % / °C
Limit values tolerance	5 %
Hysteresis	0.25 A

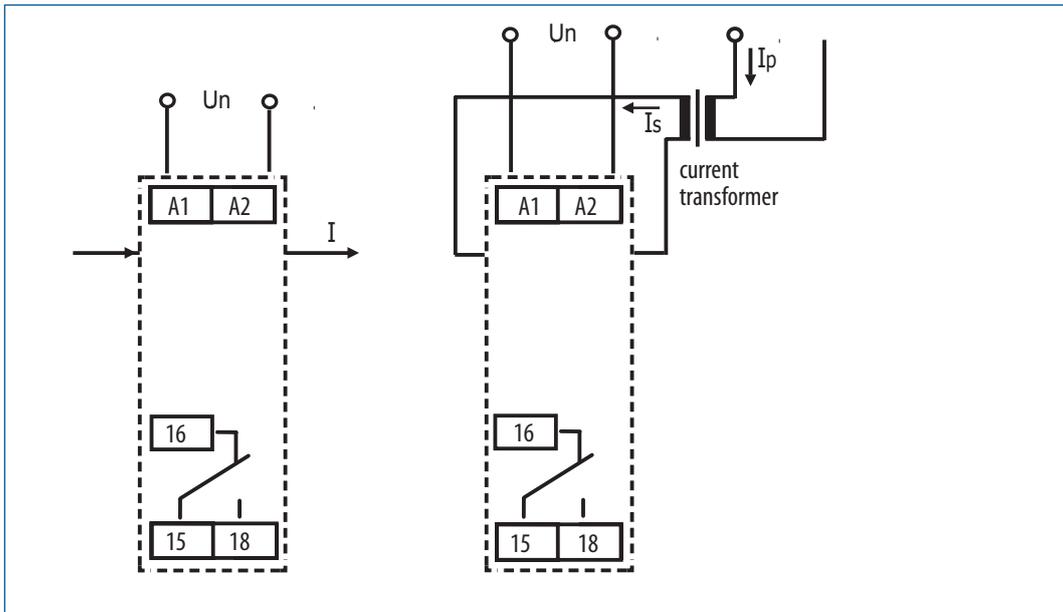
### Supply and measuring

Supply terminals	A1 - A2
Supply / measuring voltage	230 VAC 50/60 Hz
Power consumption (apparent)	Max. 5 VA
Power consumption (loss)	Max. 1.4 W
Operating range	0.85...1.1 U <sub>n</sub>

# XM-17M-IA25U relay

## Technical specifications

### 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 / IP10 terminals
Overvoltage category	III
Pollution degree	2
Max. cable size	Solid wire max. 2 x 2.5 mm <sup>2</sup> or 1 x 4 mm <sup>2</sup> / with sleeve max. 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup>

### Mechanical data

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



# XM-17M-IA25U relay

## Accessories

### XT-CM .... - Current transformer, 1-phase



Accessories for the XM-17M-IA relays to extend the maximum controlled current.

- Frequency 50/60 Hz
- Installable on panel or rail mounting
- Busbar to max. dimension 40 x 10 mm
- Constant overload capacity: 1.2 x  $I_n$
- Output current: 0-5 A

Cable size solid conductor                      max 6 mm<sup>2</sup>  
 Cable size wire                                      max 4 mm<sup>2</sup>  
 Operating temperature                            -20 °C...+55 °C

	XM-CT50	XM-CT100	XM-CT150	XM-CT200	XM-CT250	XM-CT300	XM-CT400	XM-CT600
Max. wire diameter	22	22	22	23	23	35	35	35
Max. busbar profile	-	-	-	30 x 10	30 x 10	40 x 10	40 x 10	40 x 10
Primary current	50 A	100 A	150 A	200 A	250 A	300 A	400 A	600 A
Accuracy class 0.5	-	2	3	4	6	4	8	12
Accuracy class 1	1.25	2.5	4	7	9	8	12	15
Accuracy class 3	1.5	3.5	5	8.5	11	12	15	15

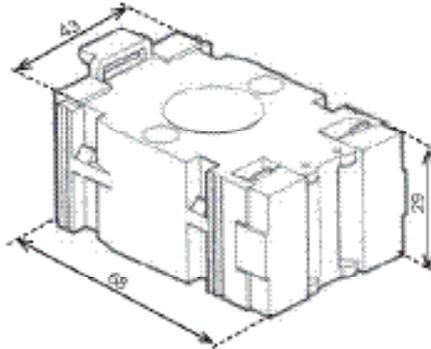


# XM-17M-IA25U relay

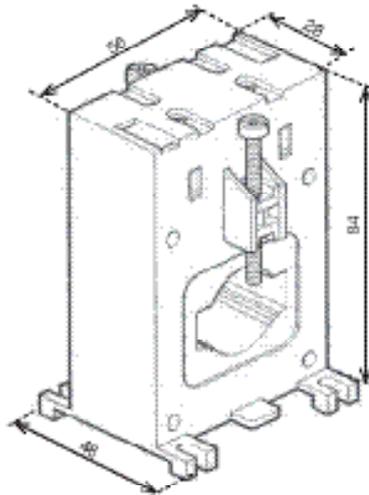
## Accessories

### Dimensions

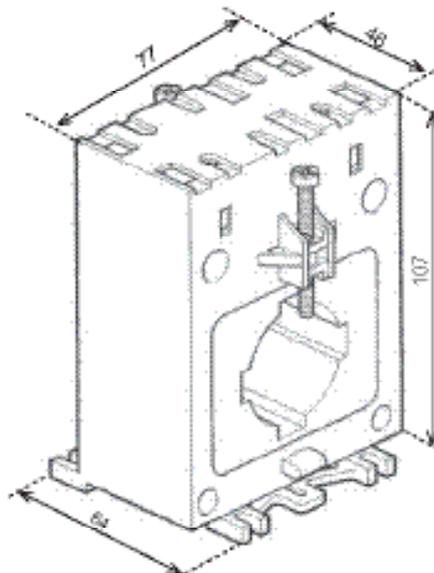
XM-CT50  
XM-CT100  
XM-CT150



XM-CT200  
XM-CT250



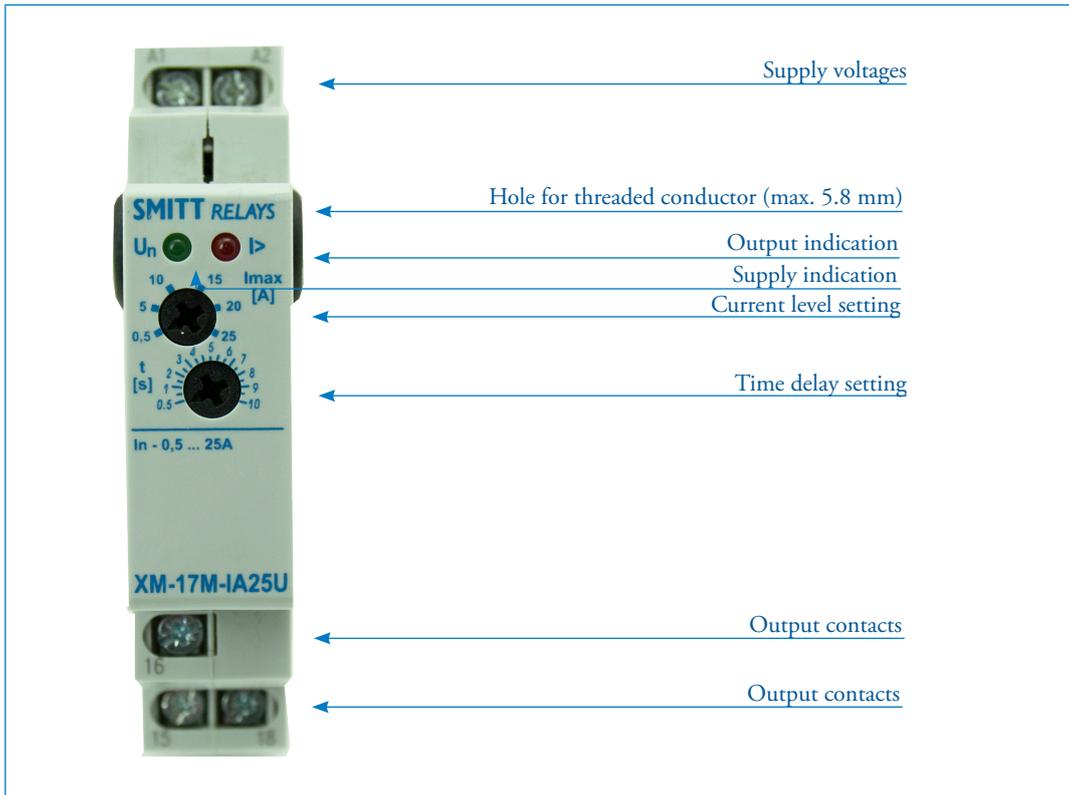
XM-CT300  
XM-CT400  
XM-CT600



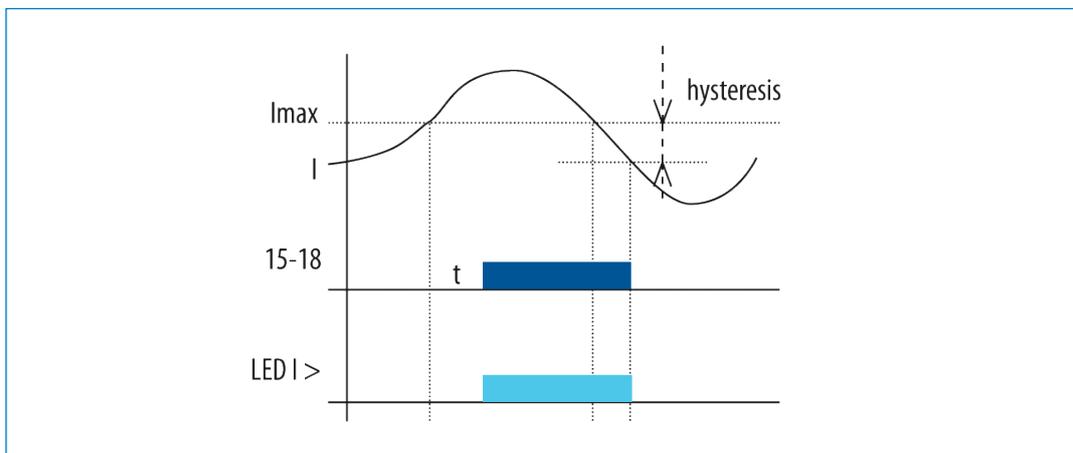
# XM-17M-IA25U relay

## Technical specifications

### Design



### Functions

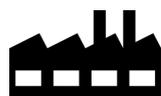


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## Ordering codes

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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