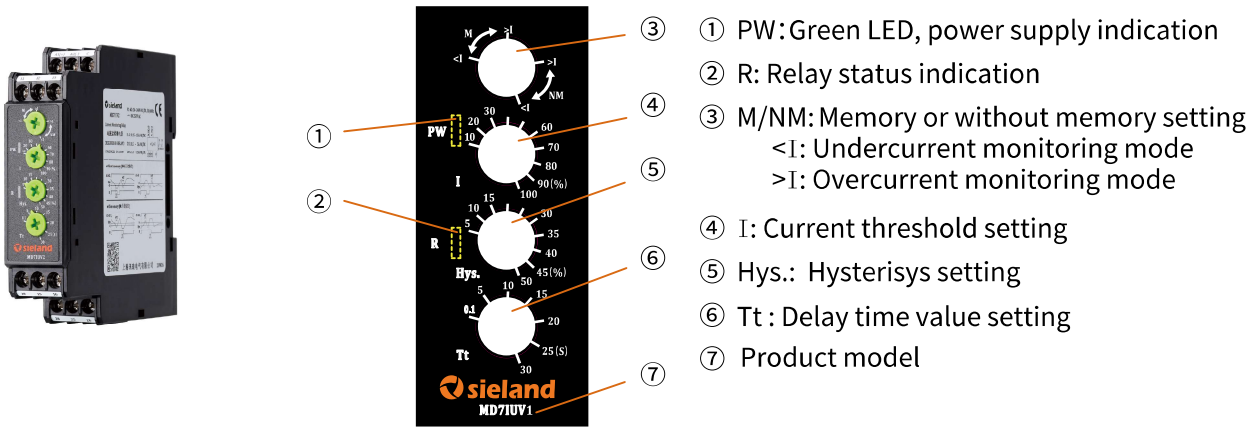


MD7IUV1 Current monitoring relays specification



Products features:

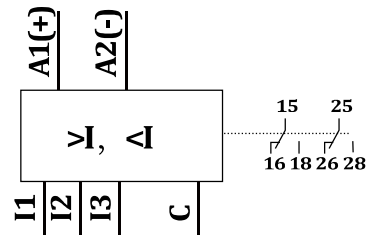
- Power supply: 24-240V AC/DC
- Three monitoring channels: I1/I2/I3 - C
- Memory mode can be set on the panel, M: with memory, NM: without memory

Technical data:

Power supply:	24 - 240V AC/DC
Current threshold:	10 - 100% (I1/I2/I3 - C)
Hysterisys setting:	5 - 50% (current threshold)
Delay setting:	0.1s - 30s
Relay output:	2 c/o
Repeatability:	±0.5%
Temp. drift:	±0.05%/°C
Voltage drift:	±1%/V
Switch current:	8A/250VAC
Electrical durability:	10 ⁵ cycles
Mechanical durability:	10 ⁷ cycles
IP degree:	IP50/IP20
Temperature:	-40°C...60°C
Store temperature:	-40°C...85°C
Size:	22.5*92*100 mm
Mounting:	35mm DIN rail
Standards:	IEC60255-1、GB14048.5

Reference figure for MD7IUUV1:

T: 0.1-30s
A1- A2: 24-240V AC/DC, 50/60Hz
— : 8A 250V AC

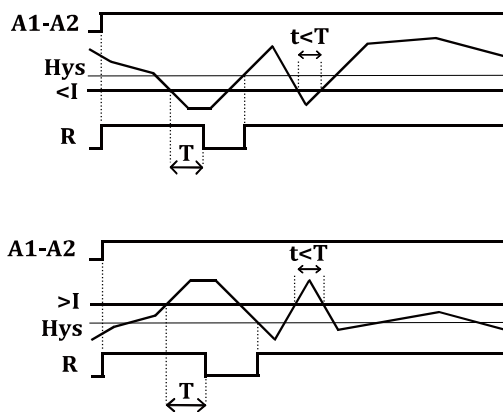


Note:

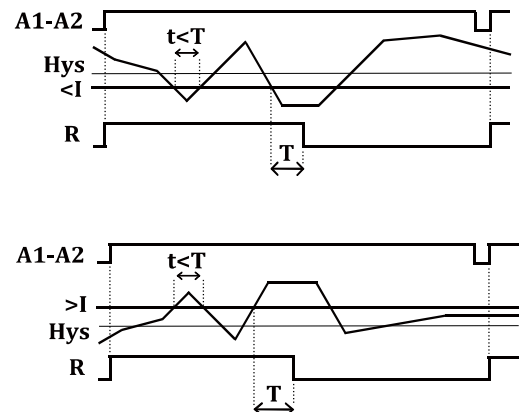
- If A1-A2 is DC power supply, then A1 must be positive, A2 must be negative
- Three monitoring channels: **I1-C: 2mA - 20mA** **I2-C: 10mA - 100mA** **I3-C: 50mA - 500mA AC/DC**
 select one channel according to the current under monitoring

Function figure:

(NM: without memory)



(M: with memory)



- M: with memory means if fault occur only for one time, relay c/o can not return to normal status automatically, unless power supply restart

Example:

Overcurrent monitoring

Setting:

>I, NM (overcurrent monitoring mode, without memory)
 Current threshold setting: 60%
 Hysterisis setting: 5%
 Delay time value setting: 5s

If I3-C is connected
 then:

Current threshold setting: $500 \times 60\% = 300 \text{ mA}$
 Hysterisis setting: $300 \times 5\% = 15 \text{ mA}$
 Hysterisis current: $300 + 15 = 315 \text{ mA}$

Conclusion:

1. If current is under 300 mA, current is normal, relay c/o switch on, led R turn on
2. If current is over 300 mA, over-current fault occur, relay c/o switch off, led R turn off, if current fall to hysterisis current of 285 mA, relay c/o switch on, led R turn on

Undercurrent monitoring

Setting:

<I, NM (undercurrent monitoring mode, without memory)
 Current threshold setting: 60%
 Hysterisis setting: 5%
 Delay time value setting: 5s

If I3-C is connected
 then:

Current threshold setting: $500 \times 60\% = 300 \text{ mA}$
 Hysterisis setting: $300 \times 5\% = 15 \text{ mA}$
 Hysterisis current: $300 + 15 = 315 \text{ mA}$

Conclusion:

1. If current is over 300 mA, current is normal, relay c/o switch on, led R turn on
2. If current is under 300 mA, under-current fault occur, relay c/o switch off, led R turn off, if current rise to hysterisis current of 315 mA, relay c/o switch on, led R turn on