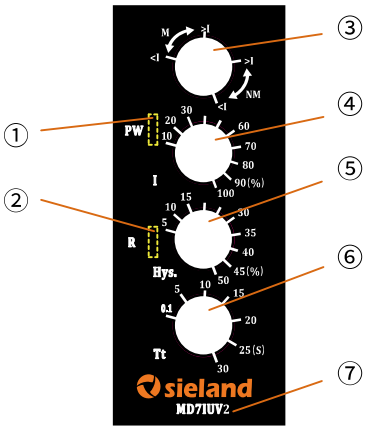
MD7IUV2 Current monitoring relays specification



① PW：Green LED, power supply indication
② R: Relay status indication
③ M/NM: Memory or without memory setting
<I: Undercurrent monitoring mode
>I: Overcurrent monitoring mode
④ I: Current threshold setting
⑤ Hys.: Hysterisys setting
⑥ Tt : Delay time value setting
⑦ Product model

Products features：

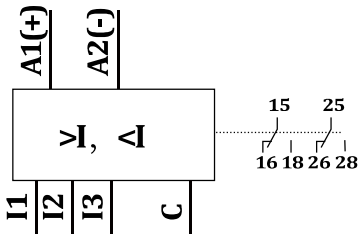
- Power supply: 24-240V AC/DC
- Three monitoring channels: I1/I2/I3 - C
- Memory mode can be set on the panel, M: with memory, NM: without memory

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
Temerature：	–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 MD7IUV2:

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

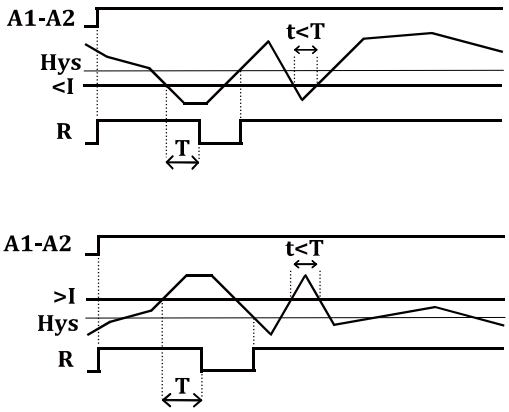


Note:

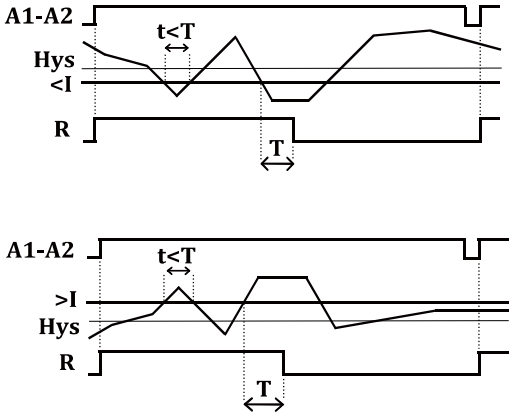
- If A1-A2 is DC power supply, then A1 must be positive, A2 must be negative
- Three current monitoring channels: **I1-C: 0.15A - 1.5A I2-C: 0.5A - 5A I3-C: 1.5A - 15A AC/DC,** select one channel according to the current under monitoring

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%
Hysterisys setting: 5%
Delay time value setting: 5s

If I3-C is connected
then:

Current threshold setting: 15*60% = 9 A
Hysterisys setting: 9*5% = 0.45 A
Hysterisys current: 9-0.45 = 8.55 A

Conclusion:
1. If current is under 9A, current is normal, relay c/o switch on, led R turn on
2. If current is over 9A, over-current fault occur, relay c/o switch off, led R turn off, if current fall to hysterisys current of 8.55A, relay c/o switch on, led R turn on

Undercurrent monitoring

Setting:

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

If I3-C is connected
then:

Current threshold setting: 15*60% = 9 A
Hysterisys setting: 9*5% = 0.45 A
Hysterisys current: 9+0.45 = 9.45 A

Conclusion:
1. If current is over 9A, current is normal, relay c/o switch on, led R turn on
2. If current is under 9A, under-current fault occur, relay c/o switch off, led R turn off, if current rise to hysterisys current of 9.45A, relay c/o switch on, led R turn on