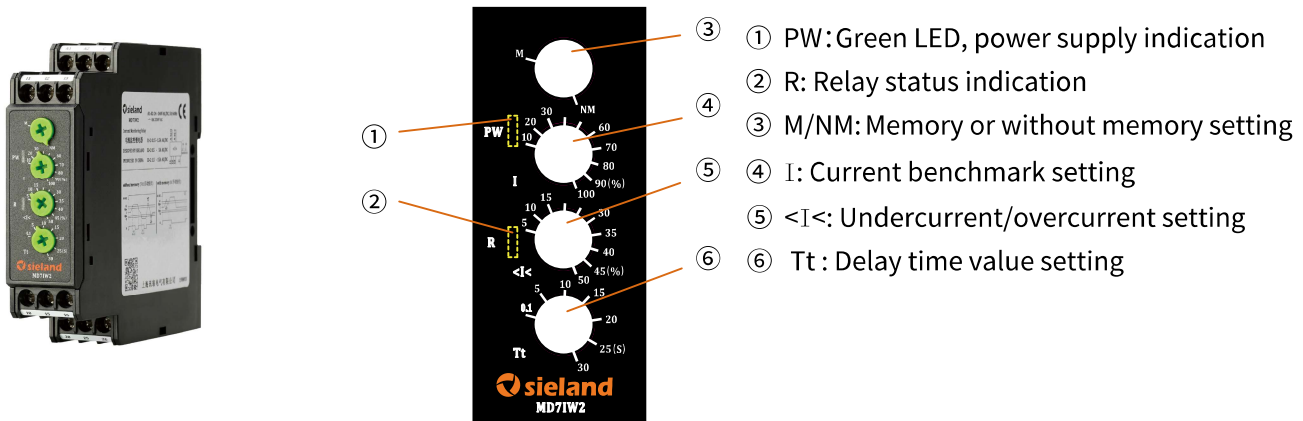


MD7IW2 Current monitoring relays specification



Products features:

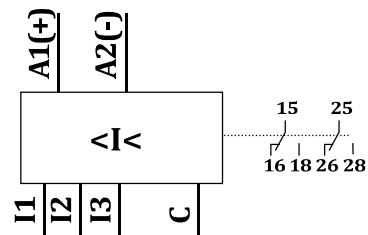
- Power supply: 24-240V AC/DC
- Three monitoring channels: I1/I2/I3 - C
- Memory mode can be set on the panel, M: with memory, NM: without memory

Technical data:

Power supply:	24 - 240V AC/DC
Current benchmark:	10 - 100% (I1/I2/I3 - C)
Under/overcurrent:	5 - 50% (current benchmark)
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 MD7IW2:

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

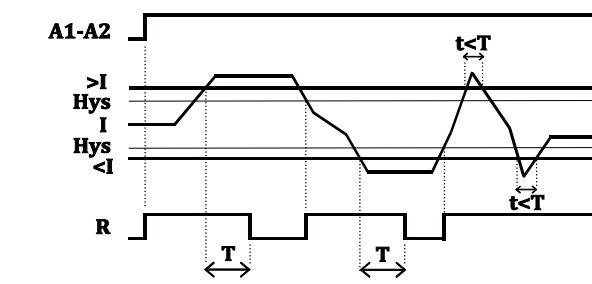


Note:

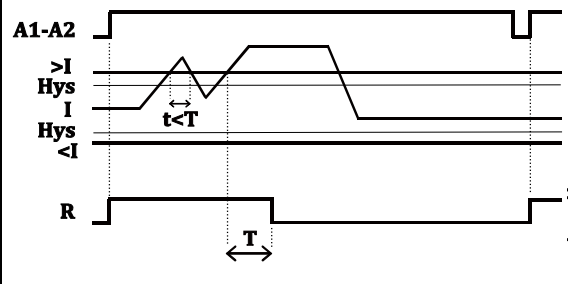
- If A1-A2 is DC power supply, then A1 must be positive, A2 must be negative
- Three current monitoring channels: **I1-C: 0.15A - 1.5A** **I2-C: 0.5A - 5A** **I3-C: 1.5A - 15A AC/DC**, select one channel according to the current under monitoring

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:

- Current monitoring

Setting:

NM: without memory
 I: 60% (current benchmark setting)
 <I< setting: 20%
 Delay time value setting: 5s

If I3-C is connected
 Then:

Current benchmark: $15 \times 60\% = 9 \text{ A}$
 Current threshold: $9 \times 0.2 = 1.8 \text{ A}$
 $>I: 9 + 1.8 = 10.8 \text{ A}$
 $<I: 9 - 1.8 = 7.2 \text{ A}$
 Hysterisis: $1.8 \times 10\% = 0.18 \text{ A}$ (hysterisis value 10% fixed in firmware)

Current: $10.8 - 0.18 = 10.62 \text{ A}$ (return from $>I$ fault)
 Current: $7.2 + 0.18 = 7.38 \text{ A}$ (return from $<I$ fault)

Conclusion:

1. If current is between 7.2A and 10.8A, current is normal, relay c/o switch on, led R turn on
2. If current is over 10.8A, over-current fault occur, relay c/o switch off, led R turn off, if current fall to 10.62A, relay c/o switch on, led R turn on
3. If current is under 7.2A, under-current fault occur, relay c/o switch off, led R turn off, if current rise to 7.38A, relay c/o switch on, led R turn on