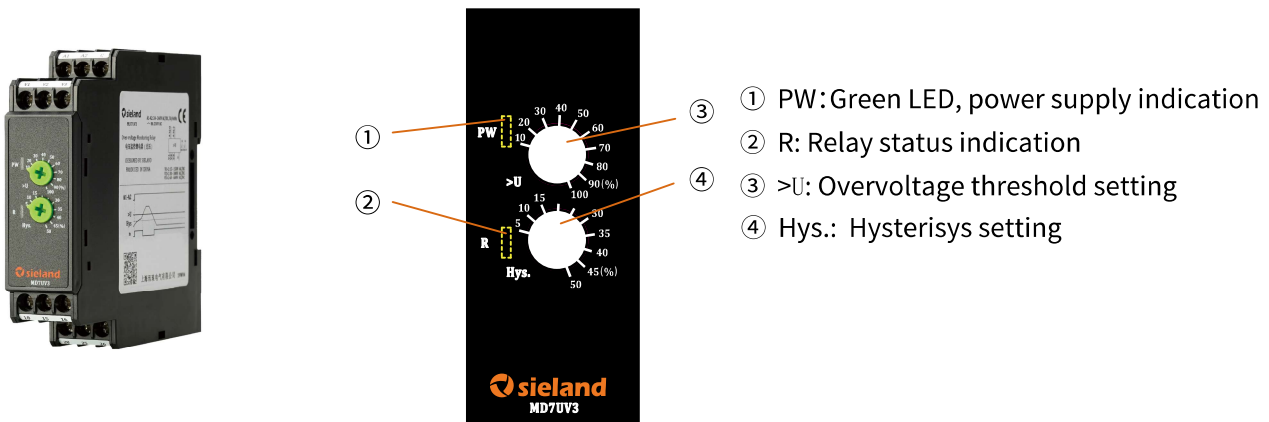


# MD7UV3 Overvoltage monitoring relays specification



Shanghai Sieland Electric Co., Ltd

## Products features:

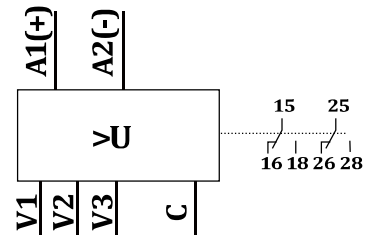
- Power supply: 24-240V AC/DC
- Three monitoring channels: V1/V2/V3 - C

## Technical data:

Power supply:	24 - 240V AC/DC
Voltage threshold:	10 - 100% (V1/V2/V3 - C)
Hysterisys setting:	5 - 50% (voltage threshold)
Relay output:	2 c/o
Repeatability:	±0.5%
Temp. drift:	±0.05%/°C
Voltage drift:	±1%/V
Switch current:	8A/250VAC
Electrical durability:	10 <sup>5</sup> cycles
Mechanical durability:	10 <sup>7</sup> 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 MD7UV3:

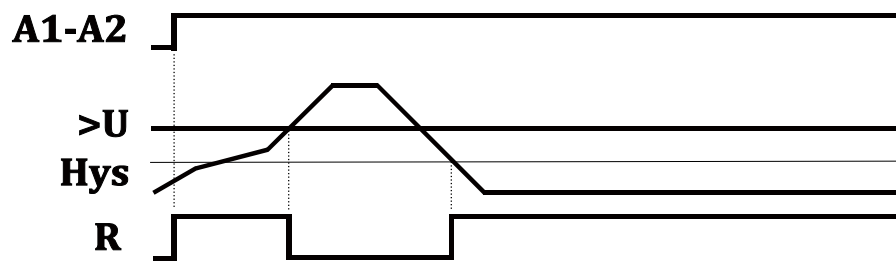
**T: 0.1-30s**  
**A1- A2: 24-240V AC/DC, 50/60Hz**  
**— : 8A 250V AC**



Note:

- If A1-A2 is DC power supply, then A1 must be positive, A2 must be negative
- Three voltage monitoring channels: **V1-C: 15V - 150V V2-C: 30V - 300V V3-C: 60V - 600V AC/DC**, select one channel according to the voltage under monitoring

Function figure:



Example:

- Overvoltage monitoring

Setting:

Voltage threshold setting: 60%

Hysterisys setting: 5%

If V3-C is connected

Then:

Voltage threshold setting:  $600 \times 60\% = 360 \text{ V}$

Hysterisys setting:  $360 \times 5\% = 18 \text{ V}$

Hysterisys voltage:  $360 - 18 = 342 \text{ V}$

Conclusion:

1. If voltage is under 360V, voltage is normal, relay c/o switch on, led R turn on
2. If voltage is over 360V, overvoltage fault occur, relay c/o switch off, led R turn off, if voltage fall to hysterisys voltage of 342V, relay c/o switch on, led R turn on