MD6PUVA Three-phase monitoring relays specification
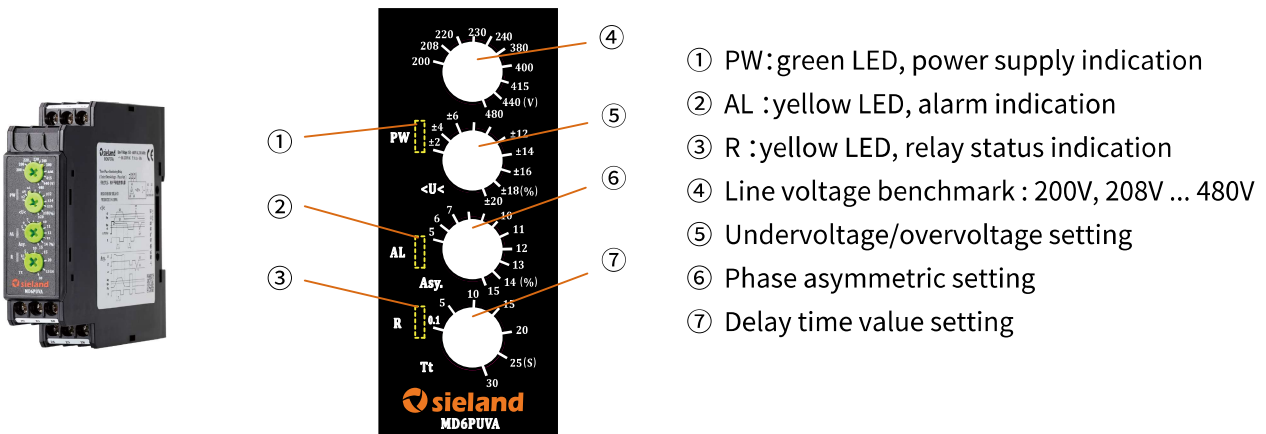

① PW：green LED, power supply indication
② AL：yellow LED, alarm indication
③ R：yellow LED, relay status indication
④ Line voltage benchmark : 200V, 208V … 480V
⑤ Undervoltage/overvoltage setting
⑥ Phase asymmetric setting
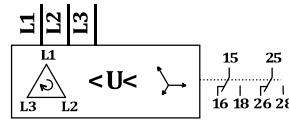⑦ Delay time value setting

Products features:

■ Monitoring self-power supply
■ Phase sequence / absence、 undervoltage、 overvoltage、 phase unbalance
■ Line voltage benchmark: 200V, 208V, 220V, 230V, 240V, 380V, 400V, 415V, 440V, 480V
■ Off delay mode

Technical data:

Rated voltage:	150 - 600V AC, 50/60 Hz (line voltage)
Undervoltage:	–2% … –20% (line voltage benchmark)
Overvoltage:	2% … 20% (line voltage benchmark)
Asymmetry:	5% … 15%
Time delay:	0.1s - 30s
Relay output:	2 c/o
Repeatability:	±0.5%
Temperature drift:	±0.05%/℃
Voltage drift:	±1%/V
Relay capacity:	8A/250VAC
Electrical durability:	10^5 cycles
Mechanical durability:	10^7 cycles
IP degree:	IP50/IP20
Operation temperature:	–40ºC…60ºC
Storage temperature:	–40ºC…85ºC
Width:	22.5 mm
Height:	92 mm
Length:	100 mm
Mounting:	35mm DIN rail
Standards:	IEC60255-1、GB14048.5

T: 0.1s-30s
Line voltage: 150-600V 50/60 Hz
⌁ : 8A 250V AC

L1 L2 L3

L1 <U< 15 25
L3 L2 16 18 26 28

Phase sequence / absence function:

L1
L2
L3
R
L3
L2
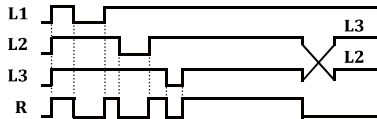
Under/over voltage function:

>U Hys
L1
L2
t<T
Hys <U
L1/L2/L3
L3
R
T   T
t<T
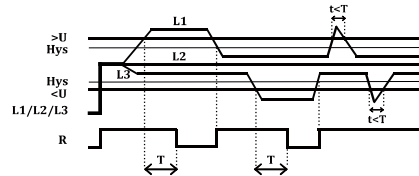
Phase unbalance function:

L1
L2
L3
Asy Hys 0%
R
T
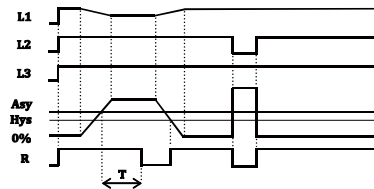
Example:

■ Equipment protect for line voltage benchmark 380V product

Setting：

<U<： ±10%
Asy.： 15%
Tt： 5s

Accordingly：

<U value： 380 - 380*10% = 342 V
>U value： 380 + 380*10% = 418 V
Asy. value： 380*15% = 57 V

Conclusion：

When voltage is between 342V and 418V， voltage is normal， relay c/o switch on，
    led R turn on ， led AL turn off

When voltage is over 418V， overvoltage fault occur， if the fault last for 5s, relay c/o switch off，
    led R turn off ， led AL fast flash

When voltage is under 342V， undervoltage fault occur， if the fault last for 5s, relay c/o switch off，
    led R turn off ， led AL slow flash

When asymmetry is over 57V， phase unbalance fault occur， if the fault last for 5s, relay c/o switch off，
    led R turn off ， led AL slow flash

When phase sequence/phase loss fault occur， relay c/o switch off immedietely， led R turn off ， led AL turn on