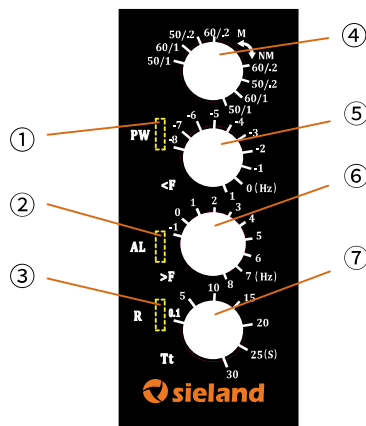# MD6FUV 200-600V Frequency monitoring relays specification

① PW：green LED, power supply indication
② AL：yellow LED, alarm indication
③ R：yellow LED, relay status indication
④ Frequency benchmark and memory mode setting
⑤ Under-frequency threshold setting
⑥ Over-frequency threshold setting
⑦ Delay time value setting

Products features:

■ Monitoring self-power supply : 200 - 600 V AC
■ Frequency and memory setting, M: with memory, NM: without memory
■ Ratio : 1 or 0.2 , e.g. 50/1 means 50Hz with ratio 1, 60/.2 means 60Hz with ratio 0.2

Technical data:

Rated voltage : 200 - 600 V AC
Under-frequency: 42-68Hz with ratio 1, 48.4-61.6Hz with ratio 0.2, accuracy is 0.2Hz
Over-frequency: 42-68Hz with ratio 1, 48.4-61.6Hz with ratio 0.2, accuracy is 0.2Hz
Hysterisys :   0.15Hz
Delay time :   0.1s - 30s
Relay output: 2 c/o
Repeatability: ±0.5%
Temp. drift: ±0.05%/°C
Voltage drift: ±1%/V
Relay capacity: 8A/250VAC
Electrical durability: 10^5 cycles
Mechanical durability: 10^7 cycles
IP degree: IP50/IP20
Operation Temp. : −40°C…60°C
Storage Temp. :   −40°C…85°C
Size: 22.5*92*100 mm
Mounting: 35mm DIN rail
Standards: IEC60255-1、GB14048.5

T: 0.1s-30s
L-N: 200 - 600V AC
⏦− 8A 250V AC

L ～   N

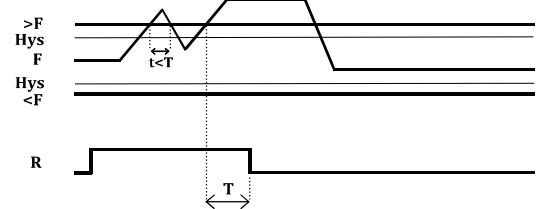| A1 A2		15 25
<F<		16 18 26 28

Shanghai Sieland Electric Co ., Ltd
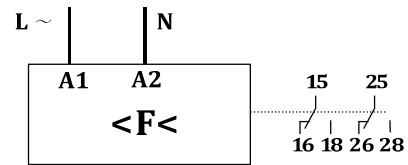
Function figure:

(NM：without memory)
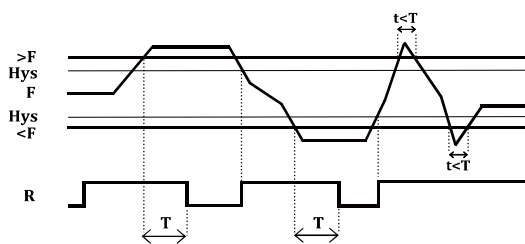
(M：with memory)

■ 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 （ratio :1)

■ Frequency monitoring

Setting：

NM 50/1 （without memory mode，benchmark： 50Hz，ratio： 1)
Under-frequency threshold setting： -2
Over-frequency threshold setting： 3
Delay time value setting： 5s

Then：
Under-frequency threshold value： 50 - 2*1 = 48 Hz
Over-frequency threshold value： 50 + 3*1 = 53 Hz

Conclusion：

When frequency is between 48 Hz and 53 Hz， frequency is normal，relay c/o switch on，led R turn on ，led AL turn off

When frequency is over 53 Hz，over frequency fault occur，relay c/o switch off, led R turn off ，led AL fast flash

When frequency is under 48 Hz，under frequency fault occur，relay c/o switch off, led R turn off ，led AL slow flash

Example （ratio :0.2)

■ Frequency monitoring

Setting：

NM 50/.2 （without memory mode，benchmark： 50Hz，ratio： 0.2)
Under-frequency threshold setting： -2
Over-frequency threshold setting： 3
Delay time value setting： 5s

Then：
Under-frequency threshold value： 50 - 2*0.2 = 49.6 Hz
Over-frequency threshold value： 50 + 3*0.2 = 50.6 Hz

Conclusion：

When frequency is between 49.6 Hz and 50.6 Hz， frequency is normal，relay c/o switch on，led R turn on，led AL turn off

When frequency is over 50.6 Hz，over frequency fault occur，relay c/o switch off, led R turn off ，led AL fast flash

When frequency is under 49.6 Hz，under frequency fault occur，relay c/o switch off, led R turn off ，led AL slow flash