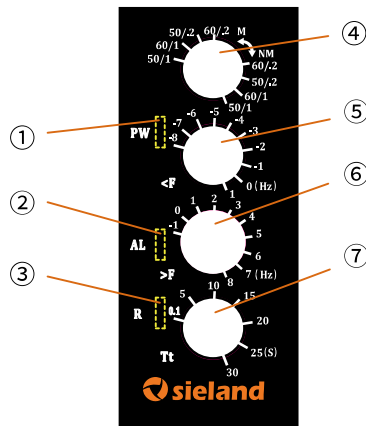


MD6FUV 100-300V Frequency monitoring relays specification



- 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 : 100 - 300 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 : 100 - 300 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

Hysteresis : 0.15Hz

Delay time : 0.1s - 30s

Relay output: 2 c/o

Repeatability: $\pm 0.5\%$

Temp. drift: $\pm 0.05\%/^{\circ}\text{C}$

Voltage drift: $\pm 1\%/V$

Relay capacity: 8A/250VAC

Electrical durability: 10^5 cycles

Mechanical durability: 10^7 cycles

IP degree: IP50/IP20

Operation Temp. : $-40^{\circ}\text{C} \dots 60^{\circ}\text{C}$

Storage Temp. : $-40^{\circ}\text{C} \dots 85^{\circ}\text{C}$

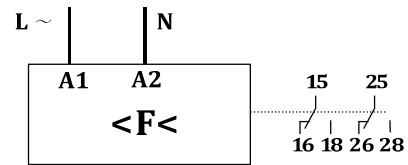
Size: 22.5*92*100 mm

Mounting: 35mm DIN rail

Standards: IEC60255-1、GB14048.5

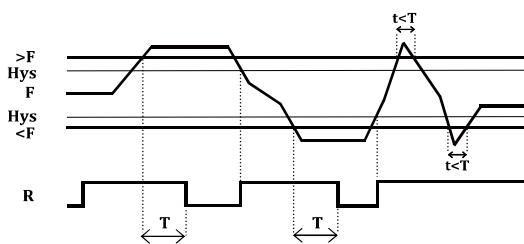
Reference figure for MD6FUV 100-300V:

T: 0.1s-30s
L-N: 100 - 300V AC
 — 8A 250V AC

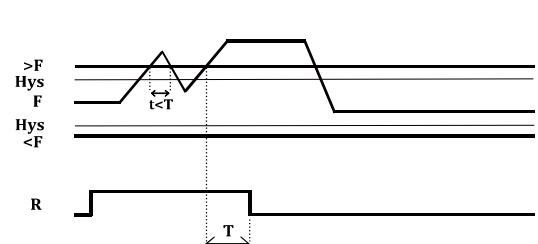


Function figure:

(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: $50 - 2 \times 1 = 48$ Hz
 Over-frequency threshold value: $50 + 3 \times 1 = 53$ 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: $50 - 2 \times 0.2 = 49.6$ Hz
 Over-frequency threshold value: $50 + 3 \times 0.2 = 50.6$ 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