Voltage and current protector RM-FVA

Features

- Microcontroller based
- Double 3 digit display for operating voltage value
- Protect electrical device against overvoltage and undervoltage
- Reset/start delay adjustable(5~600s)
- Voltage measurement accuracy ≤1%
- Parameters setting by keys
- **Asynchronous and synchronous modes**
- LEDs indication for overvoltage and undervoltage faults
- 5 Modules, DIN Rail mounting

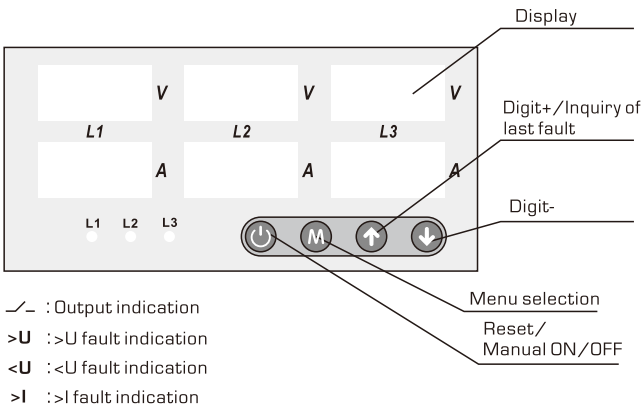
Technical data

Rated supply voltage	AC 220V
Operation voltage range	AC 50V~450V
Rated frequency	50/60Hz
Overvoltage(U>) setting range	220~300V
Undervoltage(U<) setting range	80~210V
Hysteresis	2%
Reset/start delay	Ts: 5s~600s
Overcurrent faults trip delay range	Ta: 5s~600s
Overvoltage(U>) trip delay	<0.1s
Undervoltage(U<) trip delay	≥80V:0.5s ,<80V: 0.1s
Overcurrent(I>) trip delay	In<Ir *<80A: Ta; Ir *≥Imax: ≤0. 1s
Voltage measurement accuracy	1%(over the whole range)
Rated insulation voltage	400V
Output contact	1NO
Electrical life	10^5
Mechanical life	10^6
Protection degree	IP20

* Operating current value

Technical parameter	Setting range	Step	Factory setting
Overvoltage trip value	220V~300V	1V	250V
Undervoltage trip value	80V~210V	1V	170V
Reset/start delay	5s~600s	1s	5s
Overcurrent trip value	1A~63A	1A	63A
Overcurrent trip delay	5s~600s	1s	15s
Asymmetry trip value	20V~99V	1V	50V
Continuous overcurrent faults times	OFF-1~20	1	3
Phase sequence protection	ON-OFF		OFF

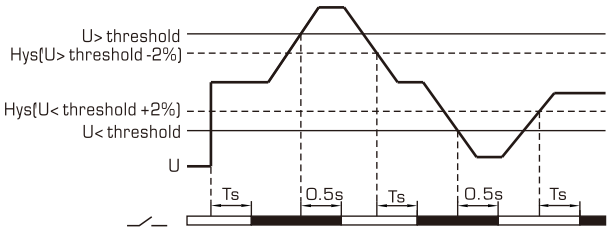
Front panel



⎍ : Output indication
>U : >U fault indication
<U : <U fault indication
>I : >I fault indication

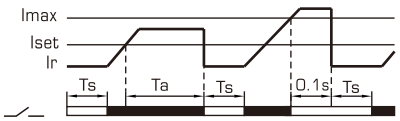
Function diagrams

- Overvoltage and undervoltage

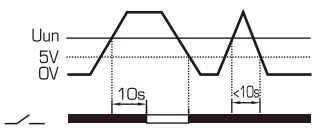


- Overcurrent

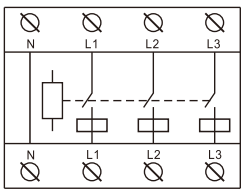
Ts: Reset/start delay
Ta: Overcurrent faults trip delay



- Asymmetry



Symbol



Wiring diagram