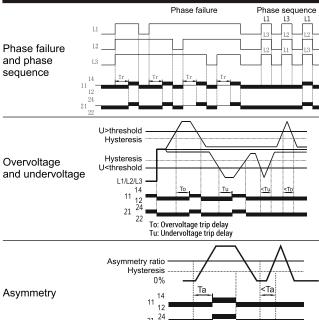
### **SAFETY PRECAUTIONS**

- 1. The device must be installed by a qualified person,
- 2. Disconnect all power before working on the device. Don't touch any terminal when the power is ON
- 3. Verify correct terminal connection when wiring.
- 4. Don't dismantle or repair the device whether it operates normally, otherwise no responsibility is assumed by producer and seller.
- 5. Never use the device at the site which can be invaded by corrode gas, strong sunshine light and rain.
- 6. Clean the device with a dry cloth.
- 7. Fail to follow these instructions will result in serious injury or death.

### **FEATURES**

- Microcontroller based.
- True RMS measurement
- Select 3phase 3wire or 3phase 4wire mode by a knob.
- N phase failure protection for 3phase 4 wire
- 1NO+1NC output-8A
- LED indication for supply and output state
- 1 module Din-rail mounting

Model	U>	U<	Phase failure	Phase sequence	Asymmetry	Operating voltage adjustable	
RS-MV37M	•	•	•	•	•	•	
Modes				3ph	ase 3wire	3phase 4wire	
Supply terminals				l	_1,L2,L3	L1,L2,L3,N	
Supply voltage				380V	/400V/415V	220V/230V/240V	
Operating voltage range				26	266V-540V 154V-312V		
U> setting value					(105%-125%)xUn		
U< setting value					(75%-95%)xUn		
Asymmetry setting					adjustable: 5%~20%; fixed: 8%		
U> trip delay					adjustable: 0.1~10s; fixed: 2s		
U< trip delay					adjustable: 0.1~10s; fixed: 2s		
Asymmetry trip delay					adjustable: 0.1~10s; fixed: 2s		
Hysteresis					2% fixed		
Trip time for incorrect phase sequence and phase failure					<0.5s		
Delay error					±10%+0.1s		
Knob setting error					1% x scale value		
Rated insulation voltage					415V		
Output contacts					1NO+1NC		
Current rating					8A/250V AC1		
Mechanical life					10 <sup>6</sup>		
Electrical life					10 <sup>5</sup>		
Protection degree					IP20		
Pollution degree					3		
Altitude					≤2000 m		
Operating temperature					-20°C~55°C		
Permissable relative humidity				≤50%	≤50% przy 40°C (without condensation)		
Storage temperature					-30°C~70°C		
Wire size/Torque					0.5mm² ~2.5mm² /0.5Nm		
Mounting					TH-35 Rail (EN60715)		



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Ta: Asymmetry trip delay

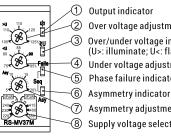
# RS-MV37M



# Voltage monitoring relay

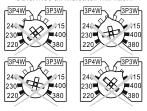
Please read complete instructions prior to installation and operation of the device.

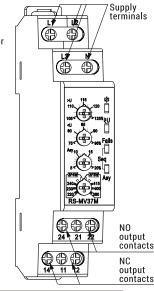
## **APPEARANCE**



- Output indicator
  - Over voltage adjustment
  - Over/under voltage indicator (U>: illuminate; U<: flash) Under voltage adjustment
- Phase failure indicator
- (7) Asymmetry adjustment
- 8 Supply voltage selection

Note: supply voltage can't be set as below. Otherwise all indicator will flash.





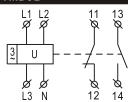
#### **INSTALLATION**

- 1. Select operating voltage by the knob. If change the operation voltage after energisation, all indicator flash, the setting doesn't work. It need to be set after disconnection.
- 2. If faults detected after relay energised, the output relay stays open
- 3. In the event of a voltage fault, the relay opens at the end of the delay set
- 4. Measured voltage value =0.5\* Ue, phase failure protective function activated
- 5. The indicator will not indicate after power supply disconnected.

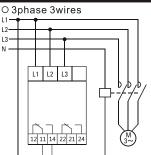
Umax-Umin Un

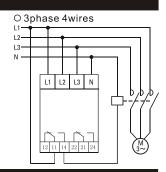
Umax:Max. phase volltage: Umin: Min phase voltage

# **ELECTRIC SYMBOL**



### **WIRING DIAGRAMS**





# DIMENSIONS

