

General

The AVR-63-V2 / AVR-40-V2 is a current and voltage protection relay designed to protect electrical equipment from over-voltage, under-voltage, and overcurrent conditions. It ensures safe and stable operation by continuously monitoring the electrical parameters and disconnecting the load when abnormal conditions occur.

Operating Principle

After proper wiring, the device continuously monitors voltage and current values. When any parameter exceeds the preset threshold, the relay de-energizes and disconnects the load. The corresponding fault indicator turns on, and the display shows the fault condition.

Overcurrent Protection:

When the current exceeds the set value, the relay trips after the configured delay time.

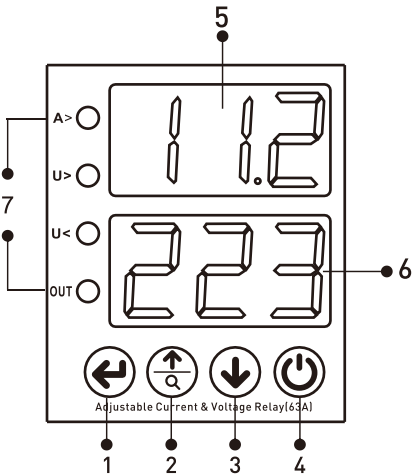
Voltage Protection:

If the voltage rises above the high limit or drops below the low limit, the relay will disconnect the load after the delay time.

Auto Recovery:

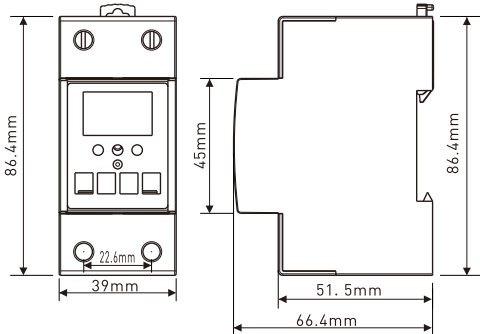
Once the electrical parameters return to normal, the relay will automatically re-energize after the reset delay time.

Display and Buttons



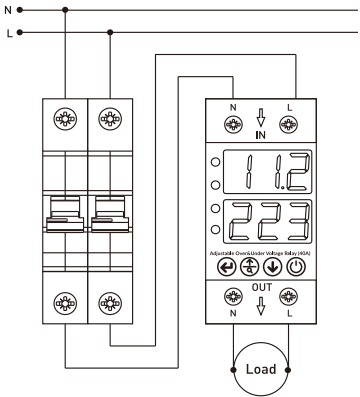
- 1- Menu Button:**
Used to enter and navigate the parameter setting menu. Long press to confirm and exit.
- 2- Up / Fault Query Button:**
Increases values in setting mode. Long press to view fault history.
- 3- Down Button:**
Decreases values in setting mode.
- 4- Power Button:**
Turns the device ON/OFF. When OFF, the display shows "OFF" and automatic restart is disabled.
- 5- Current Display:**
Displays real-time current or parameter values during setting.
- 6- Voltage Display:**
Displays real-time voltage or parameter values during setting.
- 7- LED Indicators:**
A>: Overcurrent fault
U>: Over-voltage fault
U<: Under-voltage fault
OUT: Output active

Dimensions



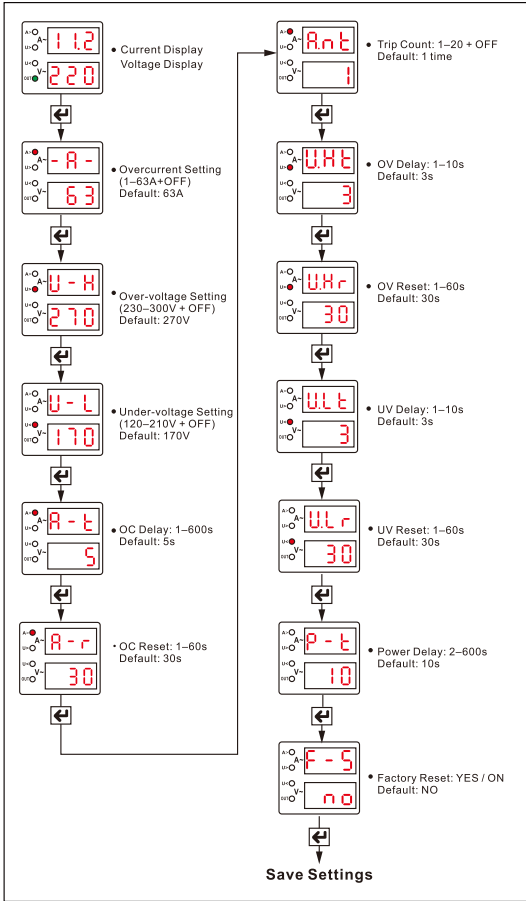
Connection Diagram

The device is powered from the mains supply through the "N" and "L" terminals. The load should be connected to the output terminals. Ensure correct wiring to achieve proper protection against over-voltage and under-voltage conditions.



※Manual Button: Can only be operated when there is no fault

Setting Up the Device



Technical Informations

Technical Data	Parameter		Range	
	Rated Current	63A/40A	Overcurrent Setting	1-63A / 1-40A
	Rated Voltage	220V AC	High Voltage Setting	230-300V + OFF
	Frequency	50Hz.-60Hz.	Low Voltage Setting	120-210V + OFF
	Protection Range	0V-450V AC	Overcurrent Delay	1-600s
	Operating Temp.	-20°C-+55°C	Overcurrent Reset	1-60s
	Operating Power	<4VA	Trip Count	1-20 + OFF
	Operating Altitude	<2000m	Over-voltage Delay	1-10s
	Display	2x3 Digit LED + Indicators	Over-voltage Reset	1-60s
	Weight	198g (63A) / 163g (40A)	Under-voltage Delay	1-10s
Setting Ranges			Under-voltage Reset	1-60s
			Power-on Delay	2-600s
			Factory Reset	YES / ON