

## MCR SVP-915A

# MCR SINOTIMER SVP-915A Adjustable Voltage Protector

**Model:** SVP-915A | **Brand:** MCR

User Instruction Manual

## 1. INTRODUCTION

The MCR SINOTIMER SVP-915A is an advanced adjustable voltage protector designed to safeguard electrical appliances and systems from voltage fluctuations and overcurrent conditions. It features an LCD display for real-time monitoring of voltage, current, and power consumption (KWH). This device integrates over-voltage, under-voltage, and overload protection functions, automatically disconnecting the power supply when abnormal conditions are detected and reconnecting when safe levels are restored. It is suitable for DIN rail mounting in various electrical distribution systems.

## 2. SAFETY INFORMATION

Please read this manual carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or damage to the device and connected equipment.

- **Professional Installation Recommended:** Installation should only be performed by a qualified electrician or competent person.
- **Power Disconnection:** Always ensure the main power supply is disconnected before installing, wiring, or performing any maintenance on the device.
- **Correct Wiring:** Follow the wiring diagram precisely. Incorrect wiring can cause damage or malfunction.
- **Operating Environment:** Do not install the device in environments with excessive moisture, dust, corrosive gases, or high temperatures.
- **Load Capacity:** Do not exceed the maximum rated current and voltage of the device.
- **Grounding:** Ensure proper grounding of the electrical system.

## 3. PRODUCT OVERVIEW

The SINOTIMER SVP-915A is a compact and versatile protection device. Its main components and features include:

- **LCD Display:** Shows real-time voltage (U), current (A), and accumulated power consumption (KWH).
- **Control Buttons:** "SET" button for entering settings mode, and "Up" / "Down" arrow buttons for adjusting

parameters.

- **Input/Output Terminals:** Clearly marked 'IN' (Input) and 'OUT' (Output) terminals for Live (L) and Neutral (N) connections.
- **DIN Rail Mounting:** Designed for easy installation on standard 35mm DIN rails.
- **Protection Functions:**
  - Over-voltage protection (OVP)
  - Under-voltage protection (UVP)
  - Over-current protection (OCP)
  - Automatic re-connection after fault clearance



Figure 3.1: Front view of the SINOTIMER SVP-915A, showing the LCD screen and control buttons.



Figure 3.2: Angled view of the device, showing the 'IN' and 'OUT' terminals.

## 4. SETUP AND INSTALLATION

Before proceeding with installation, ensure all safety precautions are observed, especially disconnecting the main power supply.

### 4.1. DIN Rail Mounting

1. Locate an appropriate 35mm DIN rail within your electrical panel.
2. Align the device's mounting clip with the DIN rail.
3. Press the device firmly onto the rail until it clicks into place. Ensure it is securely fastened.



Figure 4.1: Bottom view illustrating the DIN rail mounting mechanism.

## 4.2. Wiring Connections

Refer to the wiring diagram below for correct connection. The device is designed for single-phase systems.

# Wiring Diagram

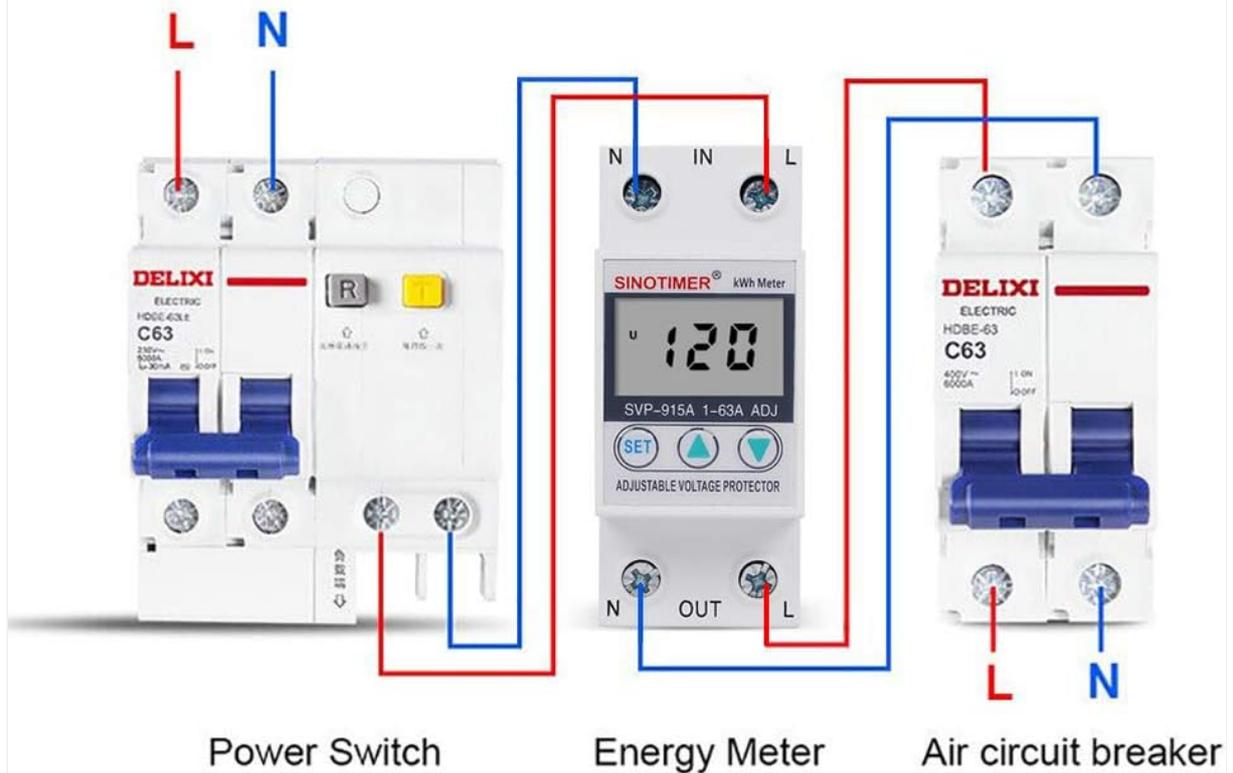


Figure 4.2: Wiring Diagram for SINOTIMER SVP-915A.

- **Input (IN):** Connect the incoming Live (L) and Neutral (N) wires from your power source (e.g., main breaker or power switch) to the 'IN' terminals of the SVP-915A.
- **Output (OUT):** Connect the outgoing Live (L) and Neutral (N) wires to your load (e.g., distribution panel or appliances) from the 'OUT' terminals of the SVP-915A.
- Ensure all connections are tight and secure to prevent loose contacts and overheating.

## 4.3. Initial Power-Up

After verifying all connections, restore power to the circuit. The device's LCD display should illuminate, showing the current voltage. The device will perform a self-test and then enter normal operating mode.

## 5. OPERATING INSTRUCTIONS

### 5.1. Display Modes

The LCD continuously displays the current voltage (U). Pressing the "Up" or "Down" buttons briefly will cycle through other display parameters:

- **Voltage (U):** Current line voltage in Volts (V).
- **Current (A):** Current load in Amperes (A).
- **Power (W):** Real-time power consumption in Watts (W).
- **Energy (KWH):** Accumulated power consumption in Kilowatt-hours (KWH).

### 5.2. Adjusting Protection Parameters

To enter the settings mode and adjust protection thresholds:

1. Press and hold the "SET" button for approximately 3-5 seconds until the display starts flashing, indicating entry into settings mode.

2. Use the "SET" button to cycle through the adjustable parameters:
  - **Over-voltage protection threshold (UVP):** Set the maximum allowable voltage.
  - **Under-voltage protection threshold (OVP):** Set the minimum allowable voltage.
  - **Over-current protection threshold (OCP):** Set the maximum allowable current.
  - **Reconnection delay time:** Time before the device reconnects after a fault.
3. While a parameter is flashing, use the "Up" and "Down" arrow buttons to adjust its value.
4. After setting all desired parameters, press and hold the "SET" button again for 3-5 seconds, or wait for 10 seconds without any button press, to save the settings and exit the settings mode.

### 5.3. Resetting KWH

To reset the accumulated KWH reading, enter the settings mode, navigate to the KWH display, and then press and hold both "Up" and "Down" buttons simultaneously until the KWH value resets to zero.

## 6. MAINTENANCE

The SINOTIMER SVP-915A is designed for minimal maintenance. However, periodic checks can ensure optimal performance and longevity.

- **Cleaning:** Gently wipe the device with a dry, soft cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Connection Check:** Periodically inspect wiring connections to ensure they remain tight and free from corrosion. (Ensure power is disconnected before inspection).
- **Environmental Conditions:** Ensure the operating environment remains within specified limits (temperature, humidity).

## 7. TROUBLESHOOTING

If you encounter issues with your SVP-915A, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
<b>No display / Device not powering on</b>	No input power; Incorrect wiring; Device fault.	Check main power supply. Verify input wiring (L and N). If power is present and wiring is correct, the device may be faulty.
<b>Device trips frequently</b>	Over-voltage, under-voltage, or over-current condition; Protection thresholds set too low/high.	Check actual line voltage and load current. Adjust protection thresholds if necessary (refer to Section 5.2). Reduce load if over-current is detected.
<b>Incorrect readings on display</b>	Wiring error; Device calibration issue.	Verify wiring connections. If readings are consistently inaccurate, the device may require service.
<b>Device does not reconnect after fault</b>	Fault condition still present; Reconnection delay too long; Device fault.	Ensure the fault condition (over/under voltage, over current) has cleared. Check reconnection delay setting. If the fault has cleared and delay passed, device may be faulty.

If the problem persists after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

Key technical specifications for the MCR SINOTIMER SVP-915A:

- **Model:** SVP-915A
- **Brand:** MCR (Manufacturer: SINOTIMER)
- **Rated Voltage:** 110V / 120V AC
- **Rated Current:** 63A (Adjustable)
- **Over-voltage Protection Range:** Adjustable
- **Under-voltage Protection Range:** Adjustable
- **Over-current Protection Range:** Adjustable
- **Display:** LCD (Voltage, Current, KWH)
- **Mounting:** 35mm DIN Rail
- **ASIN:** B08C7NL296
- **Part Number:** SVP915A-1

### 8.1. Dimensions

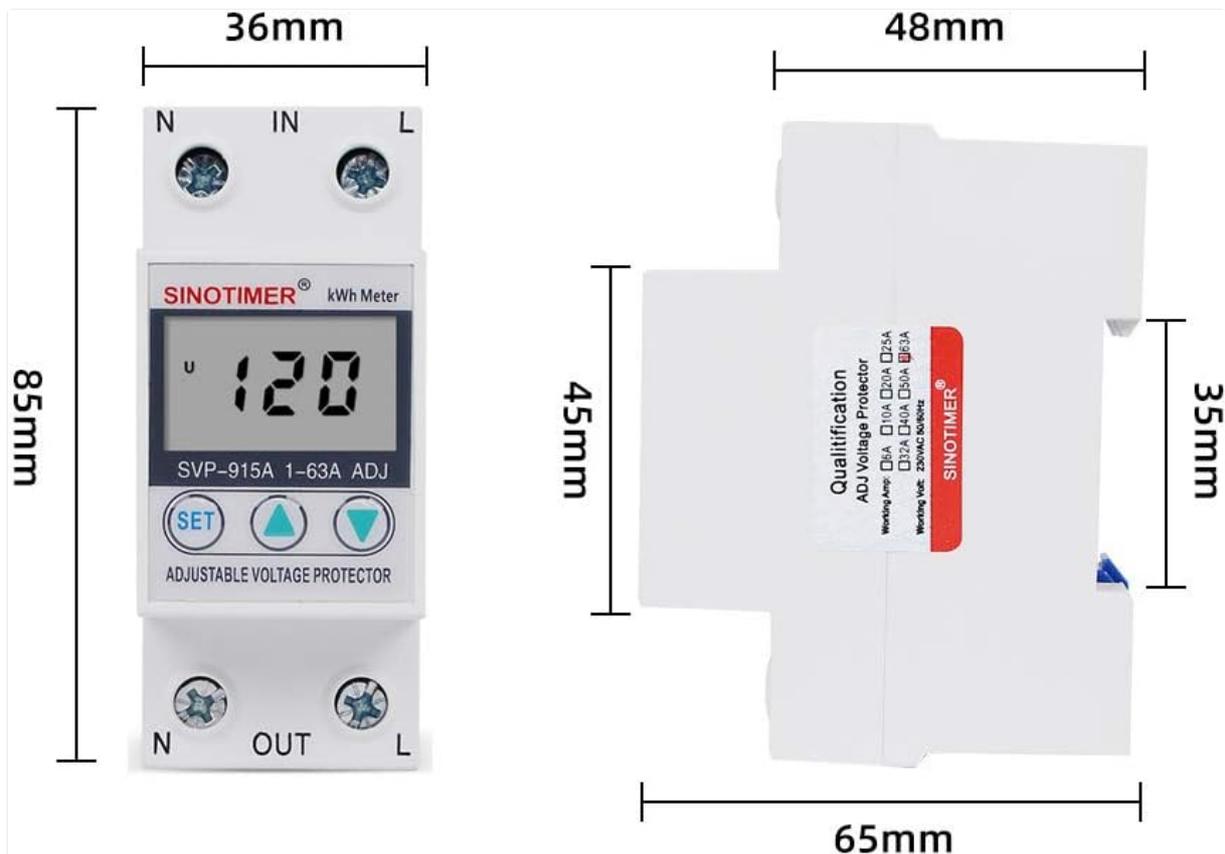


Figure 8.1: Device dimensions.

- **Height:** Approximately 85mm
- **Width:** Approximately 36mm
- **Depth:** Approximately 65mm (including DIN rail clip)

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the purchase documentation or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, you may also contact the manufacturer, SINOTIMER, through their official channels.

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