Walfront SVP-916

Walfront SVP-916 Adjustable Over and Under Voltage Protector User Manual

Model: SVP-916 (40A)

Introduction

This user manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Walfront SVP-916 Adjustable Over and Under Voltage Protector. This device is designed to protect electrical appliances from damage caused by voltage fluctuations, including overvoltage and undervoltage conditions. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

Key Features

- Overvoltage protection
- Undervoltage protection
- Voltage display (voltage measurement)
- Adjustable overvoltage protection value
- Adjustable overvoltage recovery value
- Adjustable overvoltage protection action time
- Adjustable undervoltage protection value
- Adjustable undervoltage recovery value
- Adjustable undervoltage protection action time
- Adjustable delay time for fault recovery
- Adjustable power-on delay on time
- Reset method selection
- Troubleshooting
- Restore factory settings

Product Overview

Figure 1: Front view of the Walfront SVP-916 Adjustable Voltage Protector, showing the digital display and control buttons.

Figure 2: Side view of the Walfront SVP-916, highlighting its compact design and qualification sticker.

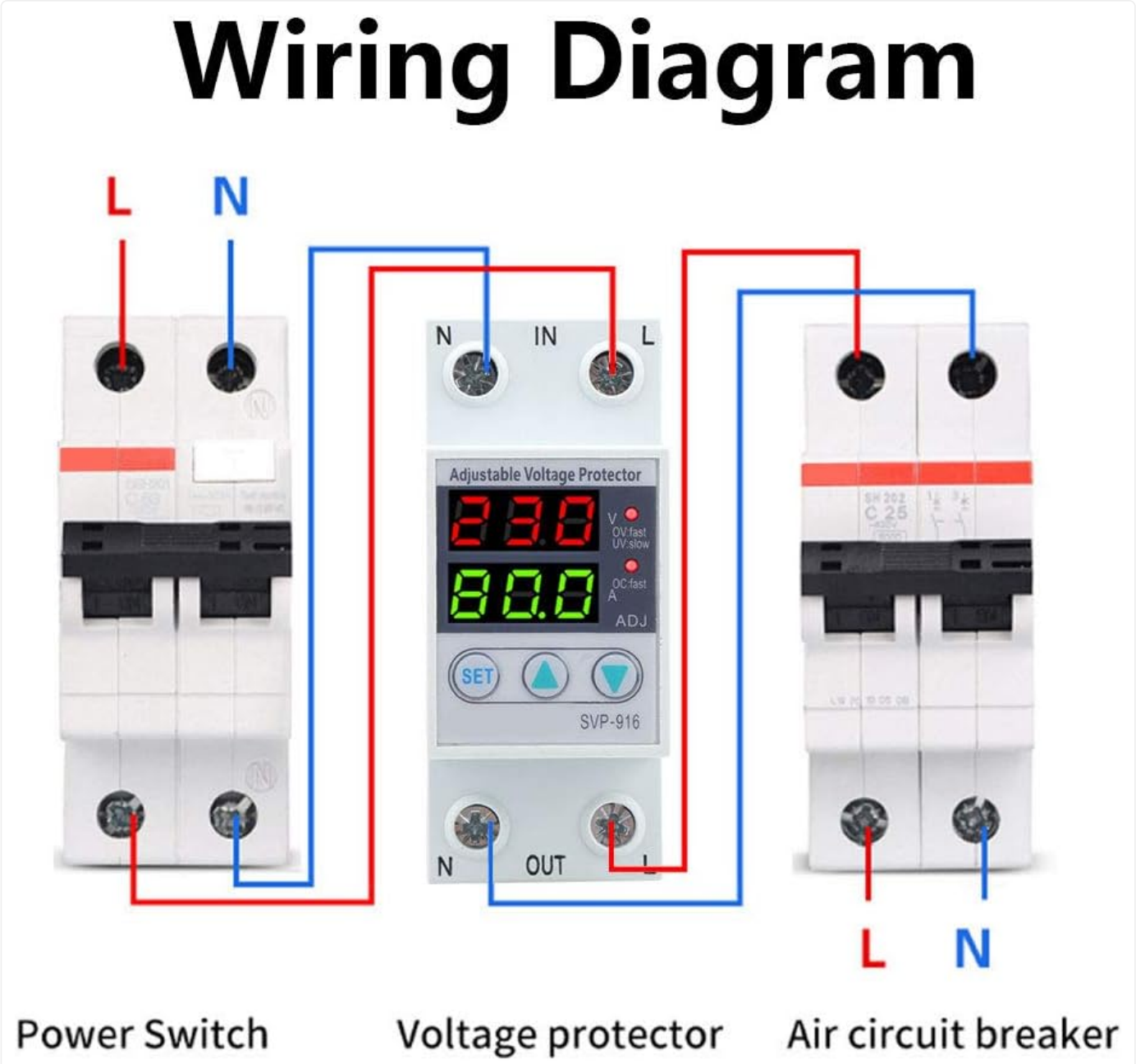

Figure 3: Detailed dimensions of the Walfront SVP-916, showing measurements in millimeters and inches for installation planning.

Setup and Installation

Before installation, ensure the main power supply is turned off to prevent electric shock. This device is designed for DIN rail mounting.

Wiring Diagram

Figure 4: Wiring diagram illustrating the connection of the voltage protector between a power switch and an air circuit breaker. Ensure correct L (Live) and N (Neutral) connections for both input and output terminals.

1. Mount the SVP-916 protector onto a standard DIN rail in your electrical panel.
2. Connect the incoming Live (L) and Neutral (N) wires from your power source to the "IN" terminals of the protector.
3. Connect the outgoing Live (L) and Neutral (N) wires from the "OUT" terminals of the protector to your load (e.g., air circuit breaker, appliances).
4. Ensure all connections are secure and properly insulated.
5. Once wiring is complete, restore power to the circuit. The device display will light up.

Operating Instructions

The SVP-916 features a digital display for real-time voltage and current monitoring, along with buttons for setting protection parameters.

Parameter Adjustment

To adjust the voltage and current coefficients, follow these steps:

1. Press the **SET** button 10 times. The display will show "PF1" and a numerical value (default 524). This value represents the voltage coefficient.
2. Use the **Up** (▲) and **Down** (▼) buttons to adjust this value. For example, to increase the displayed voltage, increase this coefficient.
3. Press the **SET** button again. The display will show "PF2" and a numerical value (default 129). This value represents the current coefficient.
4. Use the **Up** (▲) and **Down** (▼) buttons to adjust this value if needed.
5. Press the **SET** button twice more to save the settings and return to normal operation.

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Video 1: Demonstration of adjusting the voltage and current coefficients on the Walfront SVP-916. This video shows how to access the PF1 and PF2 settings and modify their values to calibrate the device's readings.

Protection Settings

The device allows for adjustment of various protection parameters:

- **Overvoltage Protection Value:** Adjustable from OFF-80V-100V (Default: 90V).
- **Overvoltage Recovery Value:** Sets the voltage at which the device restores power after an overvoltage event.
- **Overvoltage Action Time:** Configures the delay before the device trips on overvoltage.
- **Undervoltage Protection Value:** Sets the minimum voltage threshold.
- **Undervoltage Recovery Value:** Sets the voltage at which the device restores power after an undervoltage event.
- **Undervoltage Action Time:** Configures the delay before the device trips on undervoltage.
- **Fault Recovery Delay Time:** Delay before power is restored after any protection trip.
- **Power-on Delay Time:** Delay before power is supplied to the load upon initial power-up.

Maintenance

The Walfront SVP-916 is designed for low maintenance. Regular checks can ensure its longevity and proper function:

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, loose connections, or discoloration.
- **Cleaning:** Keep the device clean and free from dust. Use a dry, soft cloth for cleaning. Do not use liquid cleaners or solvents.
- **Connection Check:** Ensure all wiring connections remain tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Functionality Test:** If possible, periodically test the protection functions by simulating overvoltage or undervoltage conditions (e.g., using a variable power supply) to ensure the device trips as expected.

In case of any malfunction, refer to the troubleshooting section or contact customer support. Do not attempt to open or repair the device yourself, as this may void the warranty and pose a safety risk.

Troubleshooting

This section provides solutions to common issues you might encounter with your SVP-916 Voltage Protector.

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring; internal fault.	Check main power supply. Verify wiring connections according to the diagram. If problem persists, contact support.
Device trips frequently.	Voltage fluctuations; protection settings too sensitive.	Monitor voltage stability. Adjust overvoltage/undervoltage protection values or action times to be less sensitive if appropriate for your application.
Incorrect voltage/current display.	Calibration issue (PF1/PF2 settings).	Refer to "Parameter Adjustment" in Operating Instructions to recalibrate PF1 (voltage) and PF2 (current) values.
Device does not reset after trip.	Fault condition still present; manual reset required; internal fault.	Ensure the voltage/current has returned to normal range. Check reset method selection. If manual reset is enabled, press the reset button. If problem persists, contact support.

Restoring Factory Settings

To restore the device to its factory default settings, you must manually adjust the PF1 and PF2 values back to their default (PF1: 524, PF2: 129) as described in the "Parameter Adjustment" section. There is no single button for factory reset.

Specifications

Parameter	Value
Brand	Walfront
Model	SVP-916 (40A)
Rated Voltage	100-130VAC
Frequency	50/60Hz
Item Weight	6.5 ounces
Product Dimensions	0.39 x 0.39 x 0.39 inches (approx. 10x10x10 mm)
Country of Origin	China
Material	Plastic
Installation Method	DIN Rail Mount

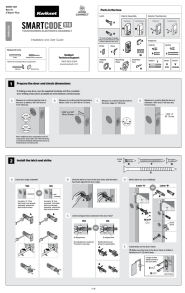
Warranty Information

Please refer to the product packaging or the seller's website for specific warranty terms and conditions. Typically, Walfront products come with a standard manufacturer's warranty covering defects in materials and workmanship.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Walfront customer support through their official website or the retailer from whom you purchased the product. Have your product model (SVP-916) and purchase details ready when contacting support.
You can visit the Walfront Store for more information:Walfront Official Store

Related Documents - SVP-916

	SVP-916 Intelligent Over-Voltage Limit Current Protector Instruction Manual Instruction manual for the SINOTIMER SVP-916 intelligent over-voltage, under-voltage, and over-current protector for single-phase AC 230V systems. Details features, parameters, and setting methods for electrical equipment protection.
	Wharfedale Pro SVP Series Professional Speaker User Manual User manual for the Wharfedale Pro SVP Series of professional sound reinforcement loudspeakers, including models SVP-10, SVP-12, SVP-12M, SVP-15, SVP-215, SVP-15B, and SVP-18B. Covers safety instructions, product features, specifications, and operating guidelines.
	Valeport SWIFT SVP & SWIFTplus Operating Manual This operating manual provides comprehensive guidance for Valeport's SWIFT SVP and SWIFTplus Sound Velocity Profilers. It details device features, specifications, operational modes, sensor technology, communication methods, battery management, maintenance procedures, and firmware upgrade processes for hydrographic and oceanographic applications.
	SVP Broadcast Microwave Bandpass Filters User Manual User manual for SVP Broadcast Microwave Bandpass Filters, providing detailed instructions on overview, trim points layout, required tools, and tuning procedures for optimal performance.
	Kwikset SmartCode 916 Touchscreen Electronic Deadbolt Installation and User Guide Comprehensive installation and user guide for the Kwikset SmartCode 916 touchscreen electronic deadbolt, featuring Z-Wave Plus and SmartKey security. Includes setup, programming, testing, and troubleshooting.


Kwikset

SMARTCODE™ 916 TOUCHSCREEN DEADBOLT FEATURING Z-WAVE®

[Kwikset SmartCode 916 Touchscreen Deadbolt with Z-Wave - Product Overview]

Detailed specifications and features for the Kwikset SmartCode 916 Touchscreen Deadbolt, a Z-Wave enabled electronic lock with advanced security, convenience, and customizable options.