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Fafeicy Fafeicytuv9f2csy7-01

Fafeicy SVP 916 230V AC Current Protector 40A User Manual

Model: SVP 916 (Fafeicytuv9f2csy7-01)

1. Introduction

The Fafeicy SVP 916 is an intelligent single-phase adjustable over-voltage, under-voltage, and over-current protective device designed for 230V AC 50/60Hz electrical systems. This device automatically cuts off the power supply to protect electrical equipment from damage when voltage or current conditions exceed preset limits. When normal conditions are restored, the protector automatically resumes power supply. This manual provides essential information for the safe installation, operation, and maintenance of your SVP 916 protector.



Figure 1: Fafeicy SVP 916 230V AC Current Protector (40A model).

2. Safety Information

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** After the product is powered on, do not touch the live parts to avoid electric shock.
- **Neutral Line Connection:** The neutral line (N) must be connected correctly and securely. The N line of the protector is directly connected and does not have a disconnect function.
- **External Circuit Breaker:** This protector does not provide isolation or short-circuit protection. Always use a small circuit breaker at the front end of the installation to provide isolation and short-circuit protection.
- **Maintenance:** Always disconnect the front-end circuit breaker switch before performing any repairs or maintenance on the circuit.
- **Power Failure Note:** When the undervoltage breaking time is set to greater than 0.3 seconds, the protector will not open after a power failure. The MCU (Microcontroller Unit) does not operate after 0.3 seconds of power failure.

3. Product Features

The Fafeicy SVP 916 offers the following protective functions:

- **Over-voltage Protection:** Automatically disconnects power when voltage exceeds a set threshold.
- **Under-voltage Protection:** Automatically disconnects power when voltage drops below a set threshold.
- **Over-current Protection:** Automatically disconnects power when current exceeds a set threshold.
- **Automatic Recovery:** Automatically restores power when voltage and current return to normal operating ranges.
- **Adjustable Parameters:** User-adjustable settings for over-voltage, under-voltage, over-current, recovery delay, and power-on delay.
- **Low Power Consumption:** Designed for energy efficiency.
- **Long Mechanical Life:** Rated for 4000 switching cycles.

4. Product Overview

The SVP 916 features a compact design for DIN rail mounting, equipped with a digital display and control buttons for easy parameter adjustment.





Figure 2: Front panel with display and control buttons.

4.1. Display and Controls

- **Digital Display:** Shows real-time voltage (V) and current (A) readings, along with status indicators (OV: fast, UV: slow, OC: fast, ADJ).
- **SET Button:** Used to enter parameter setting mode and confirm selections.
- **Up (▲) Button:** Used to increase parameter values.
- **Down (▼) Button:** Used to decrease parameter values.

5. Installation

The SVP 916 is designed for DIN rail mounting. Ensure all power is disconnected before installation.

5.1. Mounting

1. Ensure the main power supply to the circuit is turned off at the main breaker.
2. Clip the SVP 916 onto a standard DIN rail within your electrical panel.

5.2. Wiring

Connect the input and output wires as indicated on the device.



Figure 3: Wiring terminals (IN/OUT, N/L).

- Connect the incoming live (L) and neutral (N) wires to the "IN" terminals at the top of the device.
- Connect the outgoing live (L) and neutral (N) wires to the "OUT" terminals at the bottom of the device, leading to the protected load.
- **Important:** Ensure the neutral line (N) is connected securely. The protector's N line is a direct pass-through and does not disconnect.
- Double-check all connections for tightness and correctness before restoring power.

6. Operation and Settings

6.1. Power On

After successful installation and wiring, turn on the main circuit breaker. The device will power on, and the display will show real-time voltage and current.

6.2. Parameter Adjustment

To adjust protection parameters, follow these steps:

1. Press and hold the **SET** button for approximately 3 seconds to enter the parameter setting mode. The first adjustable parameter will appear on the display.
2. Use the **Up (▲)** and **Down (▼)** buttons to adjust the value of the displayed parameter.
3. Press the **SET** button briefly to confirm the current setting and move to the next parameter.
4. Repeat steps 2 and 3 for all parameters you wish to adjust.
5. After adjusting the last parameter, press **SET** again to save all changes and exit the setting mode. If no button is pressed for a period, the device will automatically exit setting mode without saving changes.

6.3. Adjustable Parameters and Ranges (40A Model)

- **Rated Current:** 1-40A adjustable (Default: 40A)
- **Overvoltage Value Range:** 221V-300V-OFF adjustable (Default: 280V)
- **Overvoltage Recovery Voltage Range:** 220V-299V (Default: 250V)
- **Overvoltage Action Time:** 0.1s - 10s (Default: 0.1 seconds)
- **Undervoltage Value Range:** 219V-150V-OFF adjustable (Default: 160V)
- **Undervoltage Recovery Voltage Range:** 151V-220V (Default: 180V)
- **Undervoltage Action Time:** 0.1s - 10s (Default: 0.1 seconds)
- **Overcurrent Regulation Range:** 1-40A (Default: 40A)
- **Overcurrent Action Time:** 0.1s - 512s (Default: 5.0 seconds)
- **Failure Recovery Delay Time:** 2s - 512s (Default: 60 seconds)
- **Power-on Delay Time:** 2s - 255s (Default: 2 seconds)

7. Troubleshooting

7.1. Overcurrent Lock

If an overcurrent condition occurs more than 5 times within a specified period, the protector will enter a locked state and will not automatically restore power.

- **To Unlock:** Manually press the **SET** button to unlock the protector and restore power. This feature prevents frequent power cycling due to persistent overcurrent conditions, protecting connected equipment.

7.2. General Issues

- **Device Not Powering On:** Check the main circuit breaker and ensure all wiring connections (IN/OUT, N/L) are secure and correct.
- **Frequent Tripping:** Review your set over-voltage, under-voltage, and over-current thresholds. They might be set too sensitively for your load or power supply conditions. Adjust parameters as needed.
- **No Automatic Recovery:** Check the "Failure Recovery Delay Time" setting. Ensure it's not set to an excessively long duration. Also, verify that the overcurrent lock is not active.

8. Specifications

Parameter	Value (40A Model)

Parameter	Value (40A Model)
Rated Voltage	230VAC 50/60Hz
Rated Current	1-40A adjustable (default 40A)
Overvoltage Value Range	221V-300V-OFF adjustable (default 280V)
Overvoltage Recovery Voltage Range	220V-299V (default 250V)
Overvoltage Action Time	0.1s - 10s (default 0.1 seconds)
Undervoltage Value Range	219V-150V-OFF adjustable (default 160V)
Undervoltage Recovery Voltage Range	151V-220V (default 180V)
Undervoltage Action Time	0.1s - 10s (default 0.1 seconds)
Overcurrent Regulation Range	1-40A (default 40A)
Overcurrent Action Time	0.1s - 512s (default 5.0 seconds)
Failure Recovery Delay Time	2s - 512s (default 60 seconds)
Power-on Delay Time	2s - 255s (default 2 seconds)
Power Consumption	<2W
Electrical Mechanical Life	4000 times
Installation Method	DIN rail
Working Environment Temperature	-25°C ~ +40°C
Working Environment Humidity	<90%
Altitude	No more than 2000m
Size (Approx.)	81 x 36 x 60mm (3.2 x 1.4 x 2.4in)
Material	Plastic
Item Model Number	Fafeicytuv9f2csy7-01

9. Care and Maintenance

The Fafeicy SVP 916 is designed for reliable operation with minimal maintenance.

- Keep the device clean and free from dust and moisture.
- Periodically check wiring connections to ensure they remain tight and secure.
- Do not attempt to open or repair the device yourself. Refer to qualified personnel for service.

10. Support and Warranty

For technical support or warranty inquiries, please contact your retailer or the manufacturer, Fafeicy. Refer to your purchase documentation for specific warranty terms and contact information.

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