

SVP-916 Intelligent over-voltage limit current protector instruction manual (double LED digital)

SVP series SINOTIMER brand automatic over-voltage and under-voltage protector is suitable for single-phase AC 230V, 50/60Hz, rated working current 63A or less loads. It is mainly used for residential household box entry or over-voltage, under-voltage or over-current protection of distribution lines for single-phase electrical equipment. Its main feature is when the circuit has over-voltage or under-voltage, over-current problems, the product can cut off the power supply instantaneously to protect the electrical equipment from being damaged, besides, the protector can automatically turn on the power supply when the circuit voltage returns to the normal.

Features:

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| 1. Over-voltage protection | 2. Under-voltage protection | 3. Over-current protection |
| 4. Voltage display (voltage measurement) | 5. Current display (current measurement) | 6. Over-voltage protection value adjustable |
| 7. Over-voltage recovery value adjustable | 8. Over-voltage protection action time adjustable | 9. Under-voltage protection value adjustable |
| 10. Under-voltage recovery value adjustable | 11. Under-voltage protection action time adjustable | 12. Over-current protection value adjustable |
| 13. Over-current protection action time adjustable | 14. Fault recovery delay time adjustable | 15. Delay time after power-on adjustable |
| 16. Reset mode selection | 17. Fault inquiry | 18. Factory data reset |

Parameter:

Rated voltage	230VAC 50/60Hz
Rated current	1-40A Adjustable (default 40A) 1-63A Adjustable (default 63A) 1-80A Adjustable (default 80A)
Over-voltage protection value range	221V-300V-OFF Adjustable (default 280V)
Over-voltage recovery value range	220V-299V (default 250V)
Over-voltage protection action time	0.1-10 second (default 0.1s)
Under-voltage protection value range	219V-150V-OFF Adjustable (default 160V)
Under-voltage recovery value range	151V-220V (default 180V)
Under-voltage protection action time	0.1-10 second (default 0.1s)
Over-current adjustment range	1-40A (default 40A) / 1-63A (default 63A) / 1-80A (default 80A)
Over-current action range	0.1 -512 second (default 5.0s)
Failure recovery delay time	2-512 second (default 60s)
Delay time after power-on	2-255 second (default 2s)
Power consumption	≤2W
Electrical mechanical life	≥4000 times
Dimensions	81*36*60mm
Installation	DIN rail
Working environment	Temperature: -25°C~+40°C Humidity: <90% Altitude: ≤2000 m

Setting method:

Press "SET" for 3 seconds, please press continuously "SET" to adjust the required parameter value as follows, ▲ or ▼ to adjust the set value. Only "END" appears, press "SET" again, the data will be saved and valid.

Step	Content	Upper LED display	Lower LED display	Description
1	Over-voltage protection value	P01	280	Range: 221V-300V-OFF (default 280V)
2	Over-voltage recovery value	P02	250	Range: 220V-299V (default 250V)
3	Over-voltage protection action time	P03	0.1	Range: 0.1-10 second (default 0.1s) Suggest 0.1s
4	Under-voltage protection value	P04	160	Range: 219V-150V-OFF (default 160V)
5	Under-voltage recovery value	P05	180	Range: 151V-220V (default 180V)
6	Under-voltage protection action time	P06	0.1	Range: 0.1-10 second (default 0.1s) Suggest ≧ 0.3s Attention: After the under-voltage action time is set longer than 0.3 s, the relay cannot be driven due to the power fault of the MCU. Therefore, when the setting time is longer than 0.3s, the grid cannot be disconnected when the power is cut off.
7	Over-current protection value	P07	63	1 A-40 A (default 40A) / Range: 1 A-63 A (default 63A) / Range: 1 A-80 A (default 80A)
8	Over-current protection	P08	5.0	Range: 0.1~512 second (default 5.0s)

	action time			Recommend to set depending on usage
9	Fault recovery delay time	P09	60	Range:2~512 second (default 60s)
10	Power on delay time	P10	2	Range:2~255 second (default 2s)
11	Reset mode selection	P11	AU	"AU" means the default fault reset mode is auto reset. Press '▲' to set the fault reset mode to "HA", "HA" means manual reset. When "HA" is set, the protector will not automatically supply power when powered on. So it is necessary to manually press "SET" to turn on the power supply. The protector will not restore the power supply when the line voltage has "faulty opening", even if the fault is removed, Unless manually pressing the "Set" button on the protector.
12	Fault inquiry code	P12	1UL	"1UL" means that the latest fault is an under-voltage fault, "UL" means under-voltage, "UH" means over-voltage, and "IH" means over-current. For example, "1IH" indicates that the last fault is an over-current fault. Press "▲" to query the last 5 faults
13	Ending	P13	END	This setting is complete. Press "SET" again, the protector saves the data, exits the setting state and enters the running state. The above digital LED displays the working voltage value, and the lower d displays the working current value .

Remark:

1.Voltage indicator: The voltage indicator flashes quickly in case of over-voltage, slowly in case of under-voltage, and it is constantly on in case of normal voltage.

2.Current indicator: The current indicator flashes in case of over-current, and it is constantly on when current is normal.

3.Sign of warranty period : During the warranty period, the voltage indicator and the current indicator are constantly on. After the warranty period, they are off under the normal conditions.

Only when the voltage exception or the over-current occurs, they will flash.

4.After pressing "SET", if there is no operation within 10 seconds, the device status will be automatically exited, and the changed parameters will not be saved.

5.Press "▲" and "▼" together for 3 seconds, and the LED below will be off for 1 second, indicating that the default parameter value of restoring factory settings is completed.