# SVP715-63A Automatic Re-closing Multifunctional Neutral and Live Wire Disconnect Power Protector At The Same Time

## 1 Scope of application and characteristics:

SVP715-63A automatic re-closing power supply protector is suitable for users or loads with AC 50/60 Hz, rated operating voltage 230 V, and rated operating current 63 A or below. It protects the electrical equipment under voltage, overload, and residual current; it is small in size, beautiful in appearance, excellent in performance and reliable in performance, quick in tripping, and is installed in a modular guide rail. Mainly used in communication base stations, repeaters, cable TV, digital TV, network switches, video surveillance optical transceivers, meteorological telemetry stations, earthquake monitoring stations, photovoltaic power generation, etc.

## 2 Product Features:

2.1 Detection before closing: The product detects the line before closing, and it cannot be closed when any fault of overvoltage, undervoltage, leakage, or overcurrent exists.
2.2 Overvoltage protection: When the input terminal voltage is greater than the set value, it will automatically disconnect.
2.3 Undervoltage protection: When the input terminal voltage is lower than the set value or the power is cut off, it will be automatically disconnected.
2.4 Overcurrent protection: When the current is greater than or equal to 1.15 times the rated current, the protector will automatically disconnect for 3 s.
2.5 Short circuit protection: When the current is greater than 3 times the rated current, the protector will automatically disconnect within 0.1 S.
2.6 Residual current protection: When the leakage current is greater than the set value or the person touches it, the protector will automatically disconnect within 0.1 S.
2.7 Neutral line disconnection protection: When the neutral line is disconnected or loose, the protector will automatically disconnect when the voltage imbalance reaches a certain value.
2.8 Power-off protection: The protector is automatically disconnected when the power is off, and the protector is automatically closed after the incoming power detection is normal.
2.9 Automatic closing: automatically disconnect when a fault occurs; self-closing after the fault is eliminated.
2.10 Sound and light fault alarm: When the fault is disconnected, the corresponding fault indicator light is on, and the sound alarm sounds at the same time.

**5 Technical Parameters:**

5.1 Rated working voltage: AC230V.

5.2 Rated current In: 1A-63A adjustable.

5.3 Life: The electrical life is on and off 20,000 times.

5.4 Local power consumption: <3W.

5.5 Working voltage range: AC140V-320V.

5.6 Maximum rated output current: In63A.

5.7 Leakage protection setting range: 10-99mA, action time ≤ 0.1S.

5.8 Undervoltage protection setting range: AC150-190V, action time 2-5S.

5.9 Overvoltage protection setting range: AC250-300V, action time 2-5S.

5.10 Overcurrent protection setting range: 1A-63A, action time 2-5S.

5.11 Short-circuit protection current: ≥3In, action time ≤0.1S.

5.14 The automatic closing delay time of the protector can be set, the setting time range: 5s-90s.

5.15 Automatic reclosing delay time: After the protector breaks off due to a fault, it needs to wait for the set time before closing automatically. If the fault exists, it will continue to cycle.

5.16 Real-time voltage, current, residual current display, error ≤ 5%.

5.17 Dimensions: See Figure 1 (45 X 96X 66mm)

5.18 Wiring: Clamp terminals are used, and the cross-sectional area of the wire can reach 16 mm².

5.19 Installation: Install on a 3.5X 7.5mm standard rail. See Figure 2.

6.2 Parameter setting:

6.1 Display real-time voltage value, current value, and residual current value: short press the "▲/SWITCH" button to view the current voltage value, current value, and residual current value, and also display the current voltage value, current value, and residual current value.

6.2.1 Press and hold the "SET/QUERY" button for 5 seconds to enter the parameter setting interface from the main interface.

6.2.2 The overvoltage indicator light is on, showing the current overvoltage value (production value 275V). Press the "▲/SWITCH" button to adjust the overvoltage value to a maximum of 300V, and press the "▼/MUTE" button to adjust the overvoltage value to a minimum of 250V.

6.2.3 Short press the "SET/QUERY" button, the undervoltage indicator light is on, and the current undervoltage value (production value 160V) is displayed, press the "▲/SWITCH" button to adjust the undervoltage value to a maximum of 190V, press the "▼/MUTE" button The minimum undervoltage value can be adjusted to 150V.

6.2.4 Short press the "SET/QUERY" button, the current indicator lights up, and displays the current current value (the output value is 50A), press the "▲/SWITCH" button to adjust the current value up to 63A, press the "▼/MUTE" button to adjust The minimum current value is 1A.

6.2.5 Short press the "SET/QUERY" button, the leakage indicator light is on, and the

current leakage action value (output value 50mA) is displayed. Press the "▲/SWITCH" key to adjust the leakage action value up to 99mA. When the leakage action value is adjusted to 100mA, The leakage is closed, press the "▼/MUTE" key to adjust the electric action value to a minimum of 10mA.

6.2.6 Short press the "SET/QUERY" button, when the automatic reclosing delay time appears on the display screen (the factory setting is 20 seconds), it indicates the waiting time for the protector to re-close in case of a fault, press "▲/SWITCH" Press the key to adjust the maximum time to 90 seconds, and press the "▼/MUTE" key to adjust the shortest time to 5 seconds.

6.2.7 Short press the "T" button of the leakage test button to indicate that there is leakage, and the protection will be disconnected immediately at this time: press the "T" button regularly to check whether the leakage function is intact.

If the above operation is not performed for 10 seconds, it will automatically return to the voltage display interface.

6.2.8 Short press the "▼/MUTE" key to turn on the buzzer (when the fault alarm buzzer is muted).

8 Attention:

**(1)** When the protector is installed and checked correctly, you can connect the power supply, turn on the "master control switch", the protector will immediately connect the circuit, press the "test" button, the protector will immediately disconnect the circuit, the "leakage" indicator light is on, and the protection The protector automatically closes and energizes, and the protector works normally at this time. At this point, the protector has been installed correctly and can be used with confidence. The protector can be tested regularly according to the above to ensure that the protector is functioning properly. If you do not need electricity for a long time, you can turn off the "master control switch", and the protector will automatically disconnect. This is equivalent to opening the master gate.

**(2)** After the power is turned on, throw the power switch to the "closed" position, and the power indicator light will be on, indicating that the protector is powered on.

**(3)** The power indicator light on the protector panel is on, indicating that the power supply is normal

**(4)** When the line fails, the protector is disconnected immediately, and the indicator light indicates the corresponding failure.

**(5)** If the fault is not eliminated, the protector will open/close cyclically.

**(6)** Overvoltage protection: When the power supply voltage is ≥275V or the overvoltage setting value, the protector is disconnected, and the "overvoltage" indicator light on the panel is on. At this time, it enters the overvoltage protection state. When the voltage recovers, after a delay The protector closes automatically.

**(7)** Undervoltage protection: When the power supply voltage is ≤ 160V or the undervoltage setting value, the protector is disconnected, and the "undervoltage" indicator light on the panel is on. At this time, it enters the undervoltage protection state. When the voltage recovers, after a delay The protector closes automatically.

**(8)** Over-current protection: When over-current occurs, the protector is disconnected, and

the "over-current" indicator on the panel is on, and it enters the over-current protection state. When the current recovers, the protector automatically closes after a delay.

**(9)** Leakage protection: When there is a leakage current, the protector is disconnected, and the "leakage" indicator light on the panel is on. At this time, it enters the leakage protection state. When the leakage disappears, the protector automatically closes after a delay.