

Secondary power distribution

HUSD8
Series PC class duplicate power supply automatic transfer switch

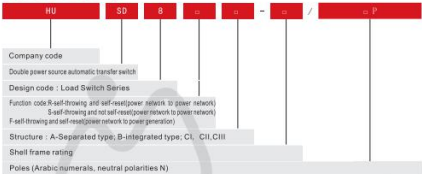


1. Application range

The single-chip microcomputer control system is used as the core of the automatic controller. With advanced anti-jamming performance, reliable capacity, and big liquid crystal display, it can offer the user a good human-machine dialogue interface. The automatic transfer switch is applied to the duplicate power supply system of AC 50Hz, rated voltage 400V, rated current up to 630A. It can also be used in the extended distribution room to realize the automatic transfer between two power supplies. When there is any fault with one line of power supply, the device will automatically transfer to the other line within several seconds, which ensures the timely power supply of important locations (residential area, hospital, shopping mall, etc.).

The product accords with GB/T 14048.11, IEC 60947-6-1.

2. Model and meaning



Note: C1, C11 type are economic type (not with R, S and F). C1-self-throwing and self-reset/power network to power network. C11-self-throwing and not self-reset/power network to power network.

3. Normal Working Conditions

- 3.1 Ambient temperature: -5°C ~ +40°C. The average temperature in 24 hours does not exceed +35°C.
- 3.2 Altitude: not exceed 2000m.
- 3.3 Humidity: The air relative humidity under the highest temperature +40°C cannot surpass 50%. Under the lowest temperature has a higher relative humidity, the wettest month's average lowest temperature cannot surpass +25°C, and the average relative humidity cannot exceed 90%.
- 3.4 Class of pollution: 3.
- 3.5 No conductive dust and corrosive gas which may destroy metal and insulation.
- 3.6 Mounting category: III.
- 3.7 The two power lines connect to the upper end of the conversion device, with the lead end connects to the lower end. Reverse connection is not allowed.
- 3.8 No obvious impact in mounting position.

4. Structure characteristic

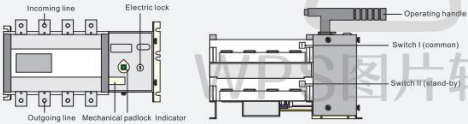
Structure of R type, B type and F type: The device consists of the body and controller. The body consists of two circuit breakers with electric operating mechanism, mechanical interlock mechanism, fuses, terminal blocks and etc. The controller consists of electronic circuits such as single-chip and so on, which is installed in a plastic casing. And the LCD display and operation keys are on the panel of the plastic casing. The specified plug and cable are used for connecting the device body and controller to achieve automatic conversion function.

Structure declaration:

- 4.1 Electric lock: When the electric lock is on, the switch will be able to realize all the electric controls; when the electric lock is off, the switch can only be operated manually.
- 4.2 Operating handle: When operating manually with the operating handle, the electric lock must be switched off.
- 4.3 Mechanical padlock: Switching the switch to "0" gear, then pulling up the padlock mechanism and locking the padlock, to prevent any accident when overhauling.
- 4.4 Indicator: means that switch I is on, II means that switch II is on and 0 means that switch I and II are off.

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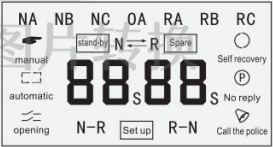


5. Function characteristic

R, S and F functions:

5.1 According to the voltage value of each phase of the double source supply, the device can control the automatic changeover between two circuit breakers. If any phase appears over-voltage, under-voltage or out-of-phase, the controller will make the device work to transfer the circuit to reverse power supply after setting delay.

5.2 Display function display content



Symbol	specification
NA NB NC	Indicates normal power, and A, B, C indicate phases. When power appears full or abnormal situation (e.g. any phase voltage appears over-voltage, under-voltage and out-of-phase), the corresponding transfer will light.
RA RB RC	Indicates alternative power, and A, B, C indicate phases. When power appears full or abnormal situation (e.g. any phase voltage appears over-voltage, under-voltage and out-of-phase), the corresponding character will light.
OA	When the output is abnormal (usually full size set), OA flashes and display alarm character with the alarm ringing. When breaking OA flashes, too.
manual	Indication of manual working mode
automatic	Indication of automatic working mode
opening	Indication of the start of stop position
stand-by N	Indication of on of the breaker on the normal power side