

STR201D

The surge protector device designs according to the national standard of GB/T18802.21-2004/IEC61643-21:2000

Features:

> Application in the equipment over voltage & over current protection. Special in industry controller network, RS422/485 interface signal, auto-control and instrument line, data line, telephone equipment, fax etc. Protect them from the over-voltage, over-current, electrostatic discharge etc.; The main traits as follows: Multi-level protection, wide capacity, low limit-voltage, fast response time, Low insertion loss, high speed and so on;



SPD Instruction
RS485 Signal Controller

Working Principle:

Surge protector link to the be protected front-end equipment, when transmission lines were happen to the lightning and other instantaneous overvoltage shock, the impulse current through the surge protector protection branch will discharge into the earth, and the output voltage limit in the device allow voltage range. ensure the safety of operation equipment.

Specifications:

Temperature: -40°C ~ 70°C;

Relative humidity: ≤ 95%;

Atmospheric pressure: 70kPa ~ 106 kPa.

Installations, Use and Maintenance:

1 Installation steps

- * Protectors access system before, first check grounding resistance, generating should comply with the requirements specification.
- * Protectors by protection equipment front-end, access to reliable connect.
- * Using short and thick grounding lines as possible as you can to connect with the Earth-termination system.

2 Precautions:

- * Protectors have input (IN), output (OUT) mark, output terminal and protected, don't connect the device to connect. Otherwise it will cause the protector the damage, the equipment can be protected.
- * Due to plug sockets connected factors such as loss of poor should be caused by increased connected or replace protector.
- * Users Can't removes protector of each fasteners parts, in case cause damage, affect the normal work.

3 Protector examination

- * With triple-use measure table " $\Omega \times 1$ " measurer the input middle-line and output middle-line of the protector, the resistance should in between about 4.7 Ω ; If open, do not normal, protector should be replaced.
- * With triple-use measure table " $\Omega \times 10K$ " measurers the line-line resistance, the result need to be 400 Ω , line-surge earth-grounding resistance need be ∞ , If not, the protector should be replaced.

| model | STR201D | |
|--|-------------------------------|------|
| Nominal working voltage U_n (V) | 12 | 24 |
| Max continuous operation voltage U_c (V) | 15 | 36 |
| Nominal discharge current I_n ($8/20\mu s$) (KA) | 5 | 5 |
| Max discharge current I_{max} ($8/20\mu s$) (KA) | 10 | 10 |
| Protection level U_p 10/700/ μs (V) | ≤30 | ≤60 |
| Insertion loss (dB) | ≤0.5 | ≤0.5 |
| Transmission rate V_s | 2 M | 2 M |
| Response time T_a | ≤1ns | |
| Protection line | One pairs | |
| Shell protection level | IP20 | |
| Dimension | 50*25*25mm | |
| Shell material | Aluminum | |
| Interface type | Interface 2 pin (RS422/RS485) | |

Product appearance and the installation instructions:

