

Lightning protection of computer network

1. Overview

This surge protector refer to GB / 2004 / IEC61643 - T18802.21 2006 strikes design

2. Function characteristics

For control signals, computer network signals, hubs, network cards, network switches, Modern, fax, data communication, such as one of the monitoring system over-voltage protection precisely them from over-voltage sensing, overvoltage and electrostatic discharge Damage caused multi-level protection, flow capacity, low clamping voltage, fast response time, low insertion loss, transmission rate advantages.

3. Usage environment

Temperature: -40℃ ~ -70℃; Relative humidity: ≤95%; Atmospheric pressure: 70kPa ~ 106 kPa

4. Working principle

Surge protector pick to be protective equipment of the front-end, when transmission lines were induction lightning and other instantaneous overvoltage shock impulse current through the surge protector protection branch will discharge into the earth, and its output voltage in importing a device allows voltage range, ensure the safety of operation equipment.

5. Technical indicators

MODEL	CYL D05F4H-E100	
Rated voltage U_n	5V	
Maximum continuous running voltage U_c	6V	
Maximum discharge current I_{max} (8/20 μ s)	1-2	0.3KA
	3-6	0.3KA
	1, 2, 3, 6-PE	2KA
Impact limit voltage U_p (10/700 μ s)	1-2	<20V
	3-6	<20V
Insulation resistance $M\Omega$	$\geq 0.4M\Omega$	
Insertion loss dB	$\leq 0.5dB$	
Proximal crosstalk	≥ 60 dB (PASS)	
Bandwidth FG	(0.3~100)M	
Transmission rate Vs	100 M	
Response time T_a	$\leq 1ns$	
Protection class	IP20	
Dimensions	80×25×25mm	
Case Material	Aluminum shield	
Lines of protection	2 Pairs (1-2, 3-6)	
Interface method	RJ45	

6 Installation, Use and Maintenance

6.1 Installation instructions

- 6.1.1 Protectors access system before, first check grounding resistance, generating should comply with the requirements specification.
- 6.1.2 Protectors by protection equipment front-end, access to reliable connect.
- 6.1.3 Protectors as soon as possible the grounding lines connected to protect grounding busbar.

6.2 Precautions

- 6.2.1 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.
- 6.2.2 Due to plug sockets connected factors such as loss of poor should be caused by increased connected or replace protector.
- 6.2.3 Users shall not take remove protector of each place fasteners, lest cause damage, affect the normal work.

6.3 Protector examination

With three 6.3.1 in table " $\Omega \times 1$ " gear measurement protector input and output to the HPVV HPVW between about 4.7Ω resistance; If open, do not normal, protector should be replaced.

7. Product appearance and the wiring diagram

