

### 1.应用领域与适用范围 Applications and Scope

户外和商业 LED 照明, 道路照明, 交通灯, 停车场照明, 隧道照明, 街道照明

SP2HV 适用于 347V~480V 交流电系统。

电涌保护等级：

UL 1449, 标称放电电流(In) 10 kA.

IEC 61000-4-5, 复合波冲击开路电压 20 kV.

Outdoor and Commercial LED Lighting, Roadway lighting, Traffic lighting, Parking garage lighting, Tunnel lighting, Street lighting.

SP2HV is applicable for 347 V~480 VAC system.

Surge protection level :

UL 1449, Nominal discharge current(In) 10 kA.

IEC 61000-4-5, Impulse open voltage 20 kV.

### 2.术语 Glossary

参考标准 Reference Standards

UL 1449 5th Ed : 2022-12-15, CSA C22.2 No.269.5-17, EN 61643-11 : 2012+A11

### 3.技术参数 Specifications

产品型号, 品种 : Product Type, Model :	SP2HV
温湿度范围 Temperature and Humidity Range	温度 Temperature : -40°C~105°C 湿度 Humidity : 5%~95% RH
额定电压 : Voltage Rated :	347~480 VAC (+/-10%)
最大持续工作电压 Maximum Continuous Operating Voltage, MCOV:	550 VAC
频率 : Frequency :	50Hz~60Hz
标称放电电流 : Nominal Discharge Current, In (8/20μS) :	10kA
最大放电电流 : Maximum Discharge Current, I <sub>max</sub> (8/20μS) :	22kA

电涌额定值 Surge Rating (8/20μS)	
次数 Strikes	电涌电流 Surge Current
1	22,000 A
2	15,000 A
15	10,000 A
100	3,000 A

备注 1: 电涌保护器安装于受试设备后,

依照 UL1449 : 2022, 五版, 第五类,  
或依照 IEC 61000-4-5 : 2014



- 测试波形 : 复合波 ;
- 同一只产品同时满足 .
- 差模/共模 : 20kV, 2Ω
- 浪涌次数 ( 对各耦合路径 ) : 应分别在 0°, 90°, 180° 与 270° 相角施加正、负极性各 5 次 ;
- 连续脉冲间的时间间隔 : 1 分钟或更短 ;
- 耦合阻抗 : 差模 18 μF · 共模 9 μF + 10 Ω ·

Note 1: After installed SPD in EUT,

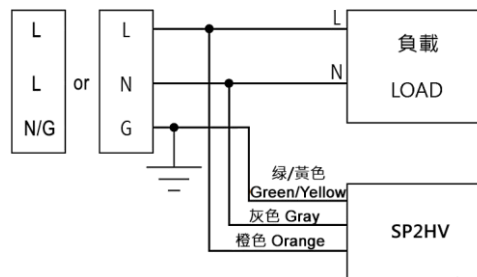
in according to UL1449 : 2022, 5<sup>th</sup> ed., type 5,  
or in according to IEC 61000-4-5 : 2014

- test waveform: combination wave;
- the same sample be satisfied to .
- Differential mode/Common mode : 20kV, 2Ω
- number of impulses (for each coupling path): five positive and five negative impulses each at 0°, 90°, 180° and at 270°;
- time between successive impulses: 1 min or less;
- coupling impedance: differential mode 18 μF, common mode 9 μF + 10 Ω.

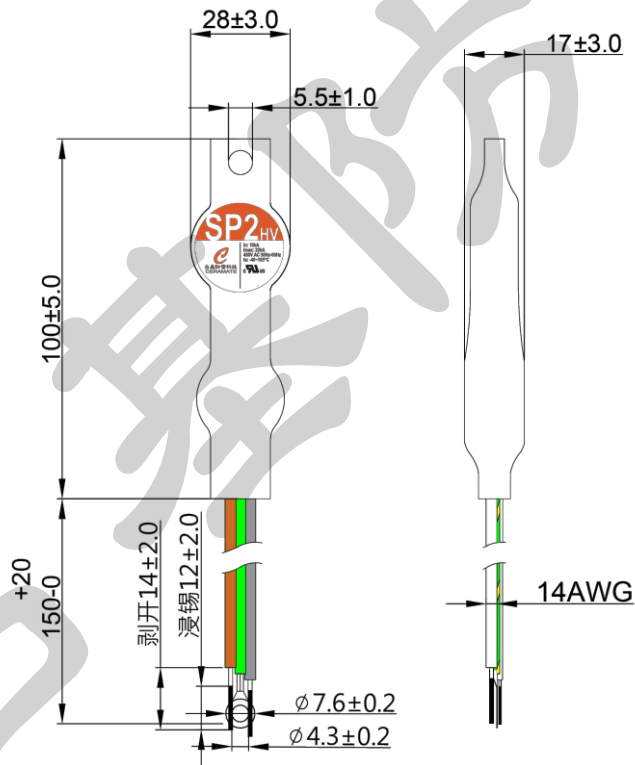
### 4. 安规认证 Agency Approvals

认证机构 Agency	标准 Standards	认证号 File NO.	类别 Category	执行标准 Designed to Standards
 UL	UL1449	E315429	第 5 类 Type 5	● UL 1449 5th Ed : 2022-12-15
 UL	CSA C22.2 No.269.5	E315429	第 5 类 Type 5	● CSA C22.2 No.269.5-17, 2017-09

### 5. 电路原理 Schematics



### 6. 尺寸 Dimensions (mm)



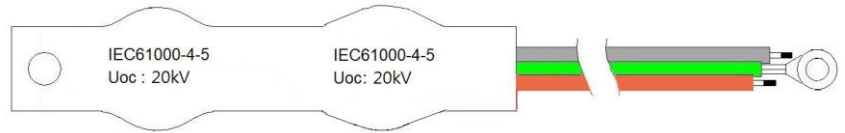
备注 :

1. 线规 : AWG14 号线, 线长 :  $150_{-0}^{+20}$  mm。
2. 分离线缆, 剥线长度  $14\pm 2.0$ mm, 导线尾端浸锡  $12\pm 2.0$ mm, 接地线加装外径  $7.6\pm 0.2$ mm 内孔直径  $4.3\pm 0.2$ mm 内通孔接地环。

Notes :

1. Wire Gauge : AWG14 wire, Wire length:  $150_{-0}^{+20}$  mm.
2. Separated wires, cutting lead wires on  $14\pm 2.0$  mm from tail terminals and soldering lead wires on  $12\pm 2.0$  mm, grounding wire attached to terminal ring with outer diameter  $7.6\pm 0.2$  mm and inner diameter  $4.3\pm 0.2$  mm.

## 7.标示 Marks

正面  
Front view-以下无正文 END背面  
Back view

台基防雷