

# SPD

## 电涌保护器

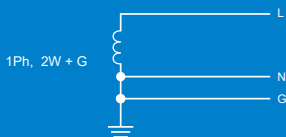
### Surge Protective Device

- 1Ph 3W / 1Ph 2W+G
- $I_n$ : 5 kA, 10 kA
- 标称系统电压: (120 ~ 480) V
- 差模和共模保护
- 热保护
- 小体积

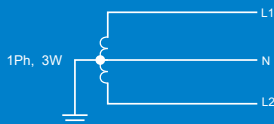
- 1Ph 3W / 1Ph 2W+G
- $I_n$ : 5 kA, 10 kA
- Rated Voltage: (120 ~ 480) V
- Differential and Common Mode Protections
- Thermal Protection
- Miniaturized Size



### 应用 Applications



1Ph 2W+G: 单相系统 Single-phase System



1Ph 3W: 分相系统 Split-phase System

制造电路控制及安全保护元器件 提供电路安全解决方案  
Providing a Total Solution for High Standard Safety Circuit Protection

SETsafe | SETfuse

赛尔特

# WHAT

## CAN DO FOR YOU

赛尔特设计、制造、销售业界领先的**电路控制及安全保护元器件**、**提供电路安全解决方案**。

2000年成立于中国厦门。产品销往40多个国家和地区，与世界500强的部分企业有深远的合作，首创、独创多个产品；取得CCC、UL、cUL、VDE、TUV、PSE、KC等认证，符合RoHS、REACH，获得IATF16949、ISO9001、ISO14001、ISO45001、GB/T29490管理体系认证，参与多项电路保护元器件的国家、国际标准制定、修订。

赛尔特(SETsafe | SETfuse)产品的主要应用市场：通信、防雷器、电源、新能源、照明、家电、移动设备、医疗。

### MISSION

**PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION.**

SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries and regions recognising our products. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated & developed several products exclusively. Products are compliance with CCC, UL, cUL, VDE, TUV, PSE, KC, IATF16949, ISO9001, ISO14001, ISO45001, GB/T29490 certificates. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.

SETsafe | SETfuse Key Markets: Telecom, Surge Protector, Power, New Energy, Lighting, Home Appliances, Mobile Devices, Medical.

过温保护  
Over Temperature Protection

ATCO

温度保险丝 Thermal-Link

1

DC-ATCO

直流温度保险丝 Thermal-Link

2

OTCO

温度保险丝 Thermal-Link

3

TMS

热保护器 Thermal Protector

4

过电压保护  
Over Voltage Protection

TVS Diodes

瞬态电压抑制二极管 Transient Voltage Suppression Diodes

1

GDT

气体放电管 Gas Discharge Tube

2

MOV

压敏电阻 Metal Oxide Varistor

3

TFMOV

热保护型压敏电阻 Thermal Fuse & MOV

4

TFMOV

热保护型压敏电阻 Thermally Protected Varistors

5

过电压保护  
Over Voltage Protection

SPD-M

电涌保护模块 Surge Protective Device Module

6

SPD

低压电源系统 Low-voltage Power Systems

7

SPD

光伏供电系统 PV System

8

SPD

室外照明系统 Outdoor Lighting

9

SPD

信号通信系统 Signaling Networks

10

过电流保护  
Over Current Protection

Mini Fuses

小型熔断器 Miniature Fuses

1

TRXF

热保护型熔断电阻器 Thermal-Link & Fusing Resistor

2

TPR

热保护型功率电阻器 Thermally Protected Resistor

3

NTC

抑制浪涌电流NTC热敏电阻器 Inrush Current Limiting NTC Thermistor

4

LV Fuses

低压熔断器 Low Voltage Fuses

5

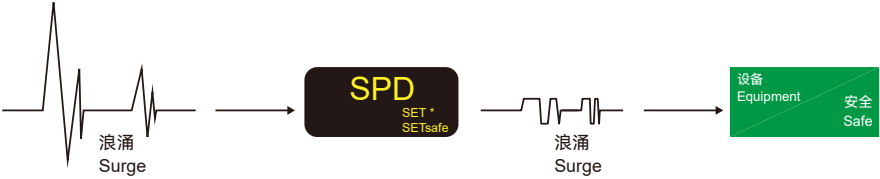
主动保护  
Active Protection

iTCO

受控熔断器 Idea Thermal-Link

1

# 电涌保护原理 Surge Protection Principle

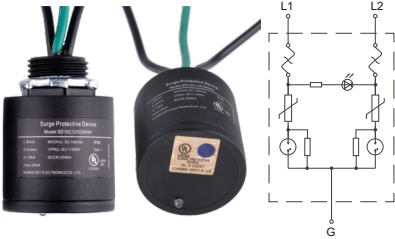


## TFMOV (ATCO+MOV) & GDT

ATCO= 温度保险丝 Thermal-link / Thermal Fuse, MOV= 压敏电阻 Metal Oxide Varistor, GDT= 气体放电管 Gas Discharge Tube

# 产品系列 Products Series

## SD10C120/240 系列 Series



1  $\Phi 39.0 \times H53.0$  (mm) UL 档案号 File No.:E322662

### 特性 Features

- 抗暂时过电压设计，2倍的额定工作电压下耐受5秒，长时间则安全脱离
- SCCR: 200 kA
- 满足 IEEE C62.41.2 (10 kV / 10 kA) 和 ANSI C136.2 (20 kV / 10 kA) 要求
- UL Listed
- 体积最小的 Type1 电涌保护器
- $I_n$ : 10 kA,  $I_{max}$ : 15 / 25 kA
- IP66

Withstand TOV 5 s at 2 Times Rated Operating Voltage,  
Disconnect if Longer Time  
SCCR: 200 kA

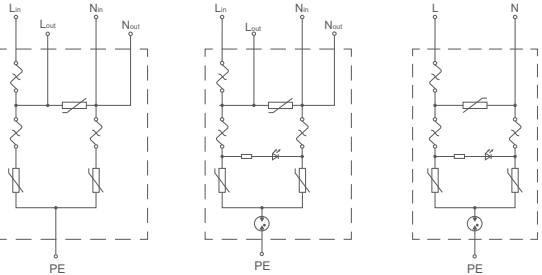
Comply with IEEE C62.41.2 (10 kV / 10 kA) and ANSI C136.2 (20 kV / 10 kA)  
UL Listed  
Smallest Type 1 SPD  
 $I_n$ : 10 kA,  $I_{max}$ : 15 / 25 kA  
IP66

## SD05C/SD10C 系列 Series



$\Phi 38.0 \times H50.0$  (mm)

2 3 4 5 6 7 8 9



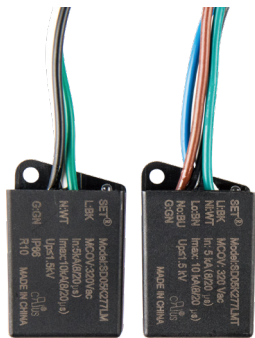
安规认证 Agency Approvals: UL, cUL, UL-EU, DEMKO, CE, CB

### 特性 Features

- 参照 UL 1449 Type 4CA 和 IEC / EN 61643-11 T2 设计
- 带热保护功能
- 满足 IEEE C62.41.2 (10 kV / 10 kA) 和 ANSI C136.2 (20 kV / 10 kA) 要求
- 一端口和二端口可选
- 二端口产品能断开主电路
- 失效指示可选
- $I_n$ : 5 kA, 10 kA  $I_{max}$ : 10 kA, 15 kA, 20 kA, 25 kA
- 共模 GDT 可选
- 标称系统电压: 120 V, 277 V, 347 V, 480 V
- 14 AWG 引线, 更低的残压
- IP66

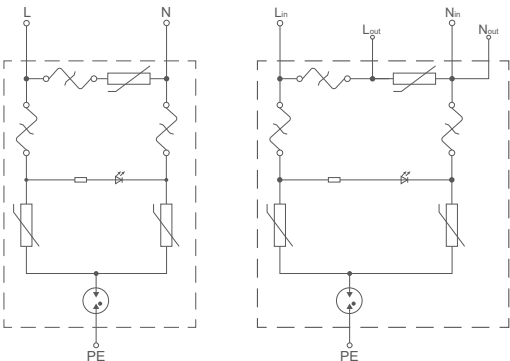
Refer to UL 1449 Type 4CA and IEC / EN 61643-11 T2  
With Thermal Protection  
Comply with IEEE C62.41.2 (10 kV / 10 kA) and ANSI C136.2 (20 kV / 10 kA)  
One-port and Two-port Optional  
Two-port Product Can Disconnect Power Line  
Failure Indication Optional  
 $I_n$ : 5 kA, 10 kA  $I_{max}$ : 10 kA, 15 kA, 20 kA, 25 kA  
GDT for Common Mode Optional  
Nominal System Voltage: 120 V, 277 V, 347 V, 480 V  
14 AWG Wire, Lower Clamping Voltage  
IP66

SD05K 系列 Series



L49.0 x W31.0 x H22.0 (mm)

10 11 12 安规认证 Agency Approvals: UL, cUL, TUV



特性 Features

- 参照UL 1449 Type 4CA 和 IEC / EN 61643-11 T2设计
- 带热保护功能
- 满足IEEE C62.41.2 (6 kV / 3 kA ) 和ANSI C136.2 (10 kV / 5 kA ) 要求
- 一端口, 可选“凯文”连接方式
- 失效指示可选
- $I_n$ : 5 kA,  $I_{max}$ : 10 kA
- 标称系统电压: 120 V, 277 V, 347 V
- 共模GDT可选
- IP66

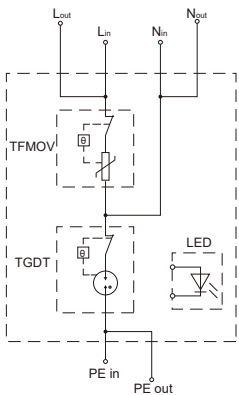
Refer to UL 1449 Type 4CA and IEC / EN 61643-11 T2  
With Thermal Protection  
Comply with IEEE C62.41.2(6 kV / 3 kA ) and ANSI C136.2(10 kV / 5 kA )  
One-port and “Kevin” Connection Optional  
Failure Indication Optional  
 $I_n$ : 5 kA,  $I_{max}$ : 10 kA  
Nominal System Voltage: 120 V, 277 V, 347 V  
GDT for Common Mode Optional  
IP66

SD10K 系列 Series



L85.0 x W37.0 x H30.0 (mm)

13 14



特性 Features

- 密封外壳, IP66
- 1+1全模保护模式, 保护性能好
- 两端口电涌保护器 (SPD), 便于布线
- 快速脱扣热保护压敏电阻和热保护放电管技术, 脱扣电流可达100 A, 安全性高
- GDT 额定断开续流值 $I_k$ : 100 A
- $I_n$ : 10 kA,  $I_{max}$ : 20 kA

Sealed Enclosure, IP66  
1+1 Protections Mode, High Protection Performance  
Two-port Surge Protective Device (SPD), Convenient for Wiring  
Fast Tripping Thermally Protected MOV and Thermally Protected GDT Technology, Tripping Current up to 100 A, High Safety  
GDT Follow Current Interrupt Rating  $I_k$ : 100 A  
 $I_n$ : 10 kA,  $I_{max}$ : 20 kA



\*“SE”品牌商标在2020年以前的设计的SPD产品上使用; “SE Tsafe”品牌商标在2020年设计的SPD新产品上启用。  
SE T is the trademark used on SPD designed before Year 2020, SE Tsafe is the trademark on SPD newly designed from Year 2020

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[www.SETfuse.com](http://www.SETfuse.com)

20+

OVER 20 YEARS OF DESIGNING, MANUFACTURING  
AND SELLING OF CIRCUIT PROTECTION COMPONENTS  
超过20年的设计、制造、销售电路保护元器件

40+

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| 代码<br>Code | 产品型号<br>Product Model | 应用<br>Applications | 标称放电<br>电流<br>$I_n$<br>(kA) | IP<br>Code | 保护模式<br>Protection Mode | 失效指示<br>Fault Indicator | 端口类型<br>Type of Ports<br>(One / Two) | 标称系统电压<br>Nominal System<br>Voltage<br>(V) | 最大持续<br>工作电压<br>MCOV<br>(V) | UL1449<br>档案号<br>File No. | EN 61643-11: 2012<br>档案号<br>File No. |
|------------|-----------------------|--------------------|-----------------------------|------------|-------------------------|-------------------------|--------------------------------------|--------------------------------------------|-----------------------------|---------------------------|--------------------------------------|
|------------|-----------------------|--------------------|-----------------------------|------------|-------------------------|-------------------------|--------------------------------------|--------------------------------------------|-----------------------------|---------------------------|--------------------------------------|

UL 1449 Type 1,10 kA

|   |                          |                                             |    |      |                                   |                |            |         |         |         |   |
|---|--------------------------|---------------------------------------------|----|------|-----------------------------------|----------------|------------|---------|---------|---------|---|
| 1 | SD10C120 / 240 系列 Series | 120/240 V<br>分相系统 Split-phase System 1Ph 3W | 10 | IP66 | 共模保护<br>Common Mode<br>Protection | 可选<br>Optional | 一端口<br>One | 120/240 | 150/300 | E322662 | - |
|---|--------------------------|---------------------------------------------|----|------|-----------------------------------|----------------|------------|---------|---------|---------|---|

UL 1449 Type 4CA / EN 61643-11 T2,10 kA

|    |                    |                                                   |    |      |                                                            |                |                       |     |     |          |                              |
|----|--------------------|---------------------------------------------------|----|------|------------------------------------------------------------|----------------|-----------------------|-----|-----|----------|------------------------------|
| 2  | SD10C120 系列 Series | 110 V, 120 V<br>单相系统 Single-phase System 1Ph 2W+G | 10 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 120 | 150 | E322662  | UL:UL-EU-00647 DEMKO:D-03708 |
| 3  | SD10C277 系列 Series | 240 V, 277 V<br>单相系统 Single-phase System 1Ph 2W+G | 10 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 277 | 320 | E322662  | UL:UL-EU-00647 DEMKO:D-03708 |
| 4  | SD10C347 系列 Series | 347 V<br>单相系统 Single-phase System 1Ph 2W+G        | 10 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 347 | 420 | E322662  | UL:UL-EU-00647 DEMKO:D-03708 |
| 5  | SD10C480 系列 Series | 480 V<br>单相系统 Single-phase System 1Ph 2W+G        | 10 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 480 | 550 | E322662  | -                            |
| 13 | SD10K230 系列 Series | 230 V<br>单相系统 Single-phase System 1Ph 2W+G        | 10 | IP66 | 1+1(L-N,N-PE)                                              | 有<br>Yes       | 二端口<br>Two            | 230 | 385 | On-going | R50507075 AN50518873         |
| 14 | SD10K277 系列 Series | 277 V<br>单相系统 Single-phase System 1Ph 2W+G        | 10 | IP66 | 1+1(L-N,N-PE)                                              | 有<br>Yes       | 二端口<br>Two            | 277 | 385 | On-going | R50507075 AN50518873         |

UL 1449 Type 4CA / EN 61643-11 T2, 5 kA

|    |                    |                                                   |   |      |                                                            |                |                       |     |     |          |           |
|----|--------------------|---------------------------------------------------|---|------|------------------------------------------------------------|----------------|-----------------------|-----|-----|----------|-----------|
| 10 | SD05K120 系列 Series | 110 V, 120 V<br>单相系统 Single-phase System 1Ph 2W+G | 5 | IP66 | 全模保护<br>All-mode Protection                                | 可选<br>Optional | 一端口或二端口<br>One or Two | 120 | 150 | On-going | -         |
| 6  | SD05C120 系列 Series | 110 V, 120 V<br>单相系统 Single-phase System 1Ph 2W+G | 5 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 120 | 150 | E322662  | -         |
| 11 | SD05K277 系列 Series | 240 V, 277 V<br>单相系统 Single-phase System 1Ph 2W+G | 5 | IP66 | 全模保护<br>All-mode Protection                                | 可选<br>Optional | 一端口或二端口<br>One or Two | 277 | 320 | E322662  | R50434690 |
| 7  | SD05C277 系列 Series | 240 V, 277 V<br>单相系统 Single-phase System 1Ph 2W+G | 5 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 277 | 320 | E322662  | -         |
| 12 | SD05K347 系列 Series | 347 V<br>单相系统 Single-phase System 1Ph 2W+G        | 5 | IP66 | 全模保护<br>All-mode Protection                                | 可选<br>Optional | 一端口或二端口<br>One or Two | 347 | 420 | On-going | -         |
| 8  | SD05C347 系列 Series | 347 V<br>单相系统 Single-phase System 1Ph 2W+G        | 5 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 347 | 420 | E322662  | -         |
| 9  | SD05C480 系列 Series | 480 V<br>单相系统 Single-phase System 1Ph 2W+G        | 5 | IP66 | 差模 / 共模保护<br>Differential Mode /<br>Commen Mode Protection | 可选<br>Optional | 一端口或二端口<br>One or Two | 480 | 550 | E322662  | -         |