

型号说明 Part Number System

SD 10 C 277 G M T -D

SPD

SPD

**D** 电路特征 Circuit Characteristics  
 缺省Default: 全模 All Modes  
 -D: 差模 Differential Mode

**T** 电路特征 Circuit Characteristics  
 缺省Default: 一端口 One-Port  
 T: 两端口 Two-Port

**M** 浪涌耐受能力 Surge Capacity  
 H: 高 High M: 中 Medium

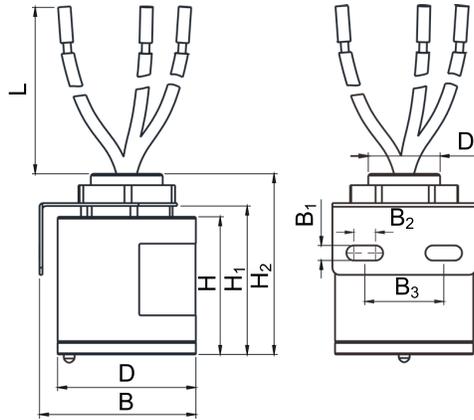
**G** 电路特征 Circuit Characteristics  
 A: 带放电管和故障指示灯  
 With GDT and Failure Indicator  
 G: 带放电管 With GDT  
 L: 带故障指示灯 With Fault Indicator  
 N: 无放电管和故障指示灯  
 Without GDT or Failure Indicator  
 E: 无热保护 Without Thermal Protection

**277** 额定工作电压 ( $U_n$ ) Nominal System Voltage  
 120: 120 Vac 277: 277 Vac  
 347: 347 Vac 480: 480 Vac

**C** 设计序列 Design Sequence

**10** 标称放电电流 Nominal Discharge Current  
 10:10 kA(8/20  $\mu$ s)  
 05:5 kA(8/20  $\mu$ s)

**SD** 产品类别 Product Type  
 SD: 电涌保护器 Surge Protective Device



尺寸 Dimensions (mm)

L <sup>a</sup>	H	H <sub>1</sub>	H <sub>2</sub>	D	D <sub>1</sub>	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>
150.0±5.0	38.0±1.0	41.0±1.0	50.0±1.0	Φ38.0±1.0	M20 × 1.5	43.5±1.0	4.2±0.1	6.0±0.1	22.0±0.2

<sup>a</sup>: 长度L可按客户要求进行定制。  
The lead length "L" can be customized as required.

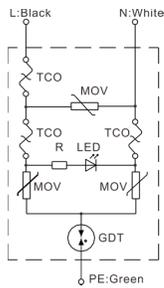
**关键特性 Key Features**

- IP66
- 具有差模、共模保护功能  
Differential and Common Mode Protections
- 一端口、两端口可选  
One-port and Two-port Optional
- 失效指示可选  
Failure Indication Optional
- 两端口SPD在开路失效时可断开主电路  
Two-port SPD Can Disconnect The Main Line When Open-circuit Failure Happens

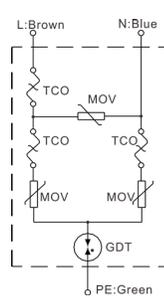
**应用领域 Applications**

- 户外照明供电系统  
Power System of Outdoor Lighting
- 监控的供电系统  
Power System of Monitoring
- 空调供电系统  
Power System of Air Conditioning
- 机房供电系统  
Power System of Computer Room
- 通讯设备供电系统  
Power System of Telecom
- 电动汽车供电系统  
Power System of EV

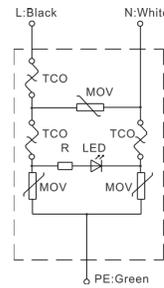
**电路原理 Schematics**



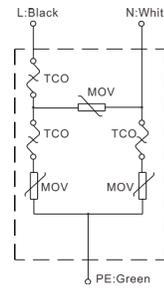
SD10CxxxAx Series  
Fig.20



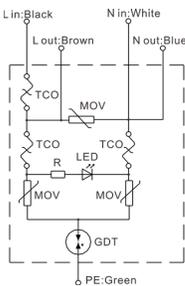
SD10CxxxGx Series  
Fig.21



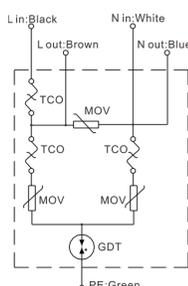
SD10CxxxLx Series  
Fig.22



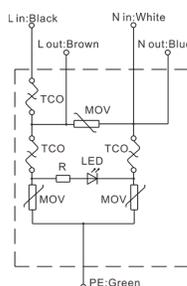
SD10CxxxNx Series  
Fig.23



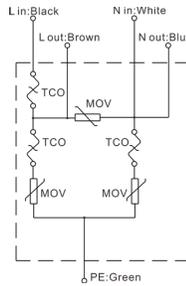
SD10CxxxAxT Series  
Fig.24



SD10CxxxGxT Series  
Fig.25



SD10CxxxLxT Series  
Fig.26



SD10CxxxNxT Series  
Fig.27

## 技术参数 Specifications

型号 Model	最大连续 工作电压 Max. Continuous Operating Voltage	标称放电 电流 Nominal Discharge Current (8/20 μs)	最大放电 电流 Max. Discharge Current (8/20 μs)	电压保护 等级 Voltage Protection Rating	电压保护 水平 Voltage Protection Level	额定电流 <sup>a</sup> Rated Current	响应时间 Response Time	外部过流 保护 <sup>b</sup> External Overcurrent Protection	产品 原理图 Product Schematic
	$U_c$	$I_n$	$I_{max}$	VPR	$U_p$	$I_r$			
	(Vac)	(kA)	(kA)	(V)	(V)	(A)	(ns)	(A)	
SD10C120A*	150	10	15 / 25	800	1400	-	<100	32	Fig. 20
SD10C277A*	320	10	15 / 25	1300	2000	-	<100	32	Fig. 20
SD10C347A*	420	10	15 / 25	1500	2200	-	<100	32	Fig. 20
SD10C480A*	550	10	15 / 20	1800	3000	-	<100	20	Fig. 20
SD10C120G*	150	10	15 / 25	800	1400	-	<100	32	Fig. 21
SD10C277G*	320	10	15 / 25	1300	2000	-	<100	32	Fig. 21
SD10C347G*	420	10	15 / 25	1500	2200	-	<100	32	Fig. 21
SD10C480G*	550	10	15 / 20	1800	3000	-	<100	20	Fig. 21
SD10C120L*	150	10	15 / 25	600	1200	-	<25	32	Fig. 22
SD10C277L*	320	10	15 / 25	1150	1600	-	<25	32	Fig. 22
SD10C347L*	420	10	15 / 25	1350	2000	-	<25	32	Fig. 22
SD10C480L*	550	10	15 / 20	1600	2500	-	<25	20	Fig. 22
SD10C120N*	150	10	15 / 25	600	1200	-	<25	32	Fig. 23
SD10C277N*	320	10	15 / 25	1150	1600	-	<25	32	Fig. 23
SD10C347N*	420	10	15 / 25	1350	2000	-	<25	32	Fig. 23
SD10C480N*	550	10	15 / 20	1600	2500	-	<25	20	Fig. 23
SD10C120A*T	150	10	15 / 25	800	1400	15	<100	32	Fig. 24
SD10C277A*T	320	10	15 / 25	1300	2000	15	<100	32	Fig. 24
SD10C347A*T	420	10	15 / 25	1500	2200	15	<100	32	Fig. 24
SD10C480A*T	550	10	15 / 20	1800	3000	15	<100	20	Fig. 24
SD10C120G*T	150	10	15 / 25	800	1400	15	<100	32	Fig. 25
SD10C277G*T	320	10	15 / 25	1300	2000	15	<100	32	Fig. 25
SD10C347G*T	420	10	15 / 25	1500	2200	15	<100	32	Fig. 25
SD10C480G*T	550	10	15 / 20	1800	3000	15	<100	20	Fig. 25
SD10C120L*T	150	10	15 / 25	600	1200	15	<25	32	Fig. 26
SD10C277L*T	320	10	15 / 25	1150	1600	15	<25	32	Fig. 26
SD10C347L*T	420	10	15 / 25	1350	2000	15	<25	32	Fig. 26
SD10C480L*T	550	10	15 / 20	1600	2500	15	<25	20	Fig. 26
SD10C120N*T	150	10	15 / 25	600	1200	15	<25	32	Fig. 27
SD10C277N*T	320	10	15 / 25	1150	1600	15	<25	32	Fig. 27
SD10C347N*T	420	10	15 / 25	1350	2000	15	<25	32	Fig. 27
SD10C480N*T	550	10	15 / 20	1600	2500	15	<25	20	Fig. 27

<sup>a</sup>: 额定电流为热熔断丝额定电流 Rated Current for the Thermal Fuse .

<sup>b</sup>: 推荐外部过流保护装置C型曲线断路器（单独设置或主回路中）。

Recommended External Curve C Circuit Breaker (Individually Set or Main Circuit).

\*: M或H Maybe M or H.

## 执行标准 Designed to Standards

- UL 1449 Fourth Edition
- EN / IEC 61643-11
- IEEE C62.41.2

## 认证信息 Agency Information

- UL / CUL E322662
- UL-EU UL-EU-00647
- CE: 3183404.01AOC, 3183404.02AOC
- CB: NL-41003, NL-41004, NL-41005, NL-41006

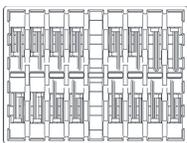
辅助功能 Auxiliary Function

型号 Model	失效指示 Fault Indicator	放电管 GDT	一端口 One-Port	两端口 Two-Port	安规认证 Agency Approvals			
					UL <sup>®</sup> US	UL <sup>®</sup> EU (D)	CE	CB
SD10C120A*	●	●	●		●	●	●	
SD10C277A*	●	●	●		●	●	●	●
SD10C347A*	●	●	●		●	●	●	
SD10C480A*	●	●	●		●			
SD10C120G*		●	●		●			
SD10C277G*		●	●		●			
SD10C347G*		●	●		●			
SD10C480G*		●	●		●			
SD10C120L*	●		●		●	●	●	
SD10C277L*	●		●		●	●	●	●
SD10C347L*	●		●		●	●	●	
SD10C480L*	●		●		●			
SD10C120N*			●		●			
SD10C277N*			●		●			
SD10C347N*			●		●			
SD10C480N*			●		●			
SD10C120A*T	●	●		●	●	●	●	
SD10C277A*T	●	●		●	●	●	●	●
SD10C347A*T	●	●		●	●	●	●	
SD10C480A*T	●	●		●	●			
SD10C120G*T		●		●	●			
SD10C277G*T		●		●	●			
SD10C347G*T		●		●	●			
SD10C480G*T		●		●	●			
SD10C120L*T	●			●	●	●	●	
SD10C277L*T	●			●	●	●	●	●
SD10C347L*T	●			●	●	●	●	
SD10C480L*T	●			●	●			
SD10C120N*T				●	●			
SD10C277N*T				●	●			
SD10C347N*T				●	●			
SD10C480N*T				●	●			

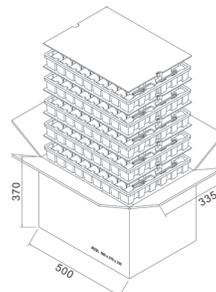
\*: M或H Maybe M or H.

包装信息 Packaging Information

每个吸塑盘产品数量  
Each Pulp Tray: 32 PCS



每箱吸塑盘数量  
Each Carton: 5 Blister Plates



- 单位 Unit:mm;
- 每箱具体数量请以规格书为准。  
Please refer to the specifications for the packaging details.