

1 适用范围 Scope

EZ10MG277M-TB-OVP/UVP. 适用于 90V~305VAC, 交流电系统。过/欠电压电压范围 170~270VAC±10%

防电涌等级: EN 61643-11 : 2012+A11

复合冲击波(Uoc/lcw) · 10kV/5kA;

标称放电电流, 5kA (In, 8/20us)/最大放电电流 10kA(Imax, 8/20us);

IEC 61000-4-5 :

安装于受试设备后 · 复合波冲击波(Uoc/lcw) · 10kV/5kA; L-N 差模 2 ohms · L-G/N-G 共模 12 ohms。

EZ10MG277M-(G)-TBLR are apply to 90V~305VAC power system. ◦ Ouer/Undes voltage range 170~270VAC±10%

Surge protection level: EN 61643-11 : 2012+A11

Combination impulse wave, 10kV/5kA;

Nominal discharge current, 5kA (In, 8/20us)/Maximum discharge current, 10kA (Imax, 8/20us);

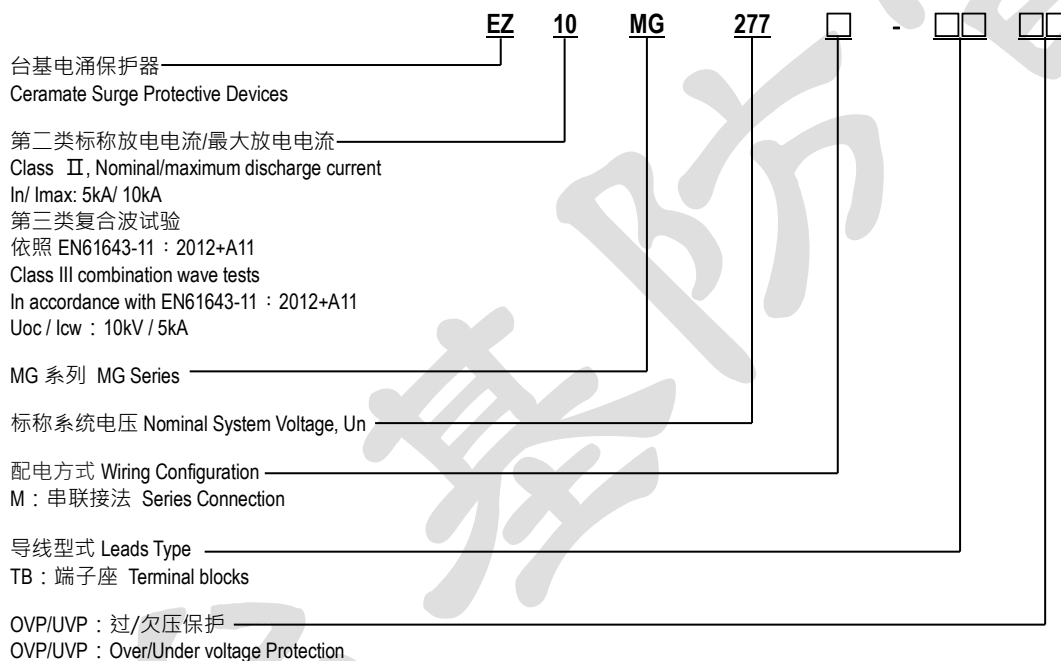
IEC 61000-4-5: After installed in EUT, combination impulse wave, 10kV/5kA; L-N differential mode 2 ohms · L-G/N-G common mode 12 ohms.

2 术语 Glossary



参考标准 Reference Standards

IEC 61643-11:2011, EN61643-11 : 2012+A11, GB/T 18802.11-2020, UL1449 5th ed.: 2022.

3 型号说明 Part Number System



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
	TUV	低压指令 Low Voltage Directive 2014/35/EU	AN50608452	附录 I Annex I	<ul style="list-style-type: none"> ● GB/T18802.11-2020 ● UL 1449 5th Ed : 2022 ● IEC 61643-11 : 2011
	TUV	EN 61643-11 : 2012+A11	R 50608446	II类与III类 Class II and III	<ul style="list-style-type: none"> ● EN 61643-11 : 2012+A11 ● IEC 61000-4-5 : 2014 ● IEEE C62.41.2-2002

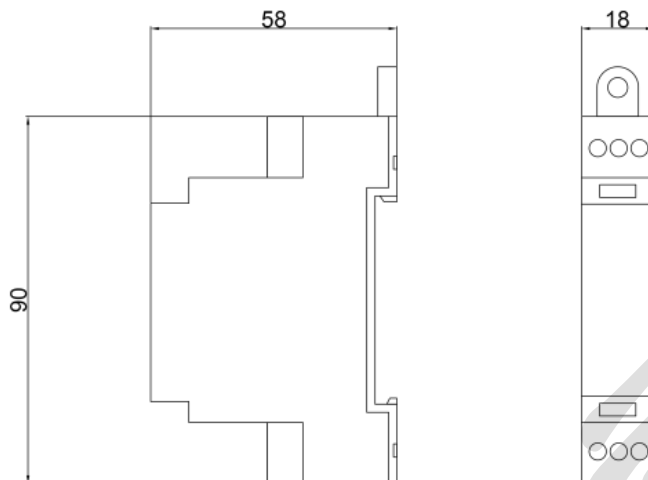
5 技术参数 Specifications

产品型号 Product Model	EZ10MG277M-TB-OVP/UVP		EZ10MG277M-G-TB OVP/UVP
温湿度范围 Temperature and Humidity Range	温度 Temperature : -40°C至 85°C 湿度 Humidity : 5%~65% RH		
端口数量 Number of Ports	一端口,输入/输出 one port, input/output		
配电系统 Power Distribution System	TN		
额定工作电压 Rated Operation Voltage	220VAC		
最大连续工作电压 Maximum Continuous Operating Voltage, U _c	320VAC		
工作频率 Working Frequency	50/60 Hz		
额定工作电流 Rated Operating Current	7A		
过电压保护电压 Over Voltage Protected	270VAC±10%		
欠电压保护电压 Under Voltage Protected	170VAC±10%		
复合冲击波, EN 61643-11 : 2012+A11 Combination Impulse Wave U _{oc} (1.2 / 50 us) / I _{cw} (8 / 20 us) 备注 1 Note 1	10kV / 5kA		
标称放电电流 Nominal Discharge Current, I _n (8/20us, kA)	5kA		
最大放电电流 Maximum Discharge current, I _{max} (8/20us, kA)	10kA		
电压保护水平 Voltage Protection Level, U _p (V)	L-N 电压持续时间 Voltage Duration Times	1000V 1μs	1000V 1μs
	L-G	-	1500V
	N-G	-	1500V
安全失效模式 Safe Failure Mode	开路模式 Open Circuit Mode (OCM)		
暂态过电压特性, 低压系统故障 Temporary Overvoltage (TOV) Characteristic, LV-system Faults	1) 335 Vac, 5 秒, 耐受模式 5 sec, withstand mode (2) 440 Vac, 120 分钟, 耐受或安全失效模式 120min, withstand mode or safe failure mod		
预期短路电流 Prospective Short-circuit Current, I _{scrr} (A)	300		
脱离器动作指示 Indication of Disconnecter Operation	LED 指示灯由亮变灭, AC 电源断开. LED 常态有保护时亮. LED indicator from light on to light off, and AC network cut-off. Under protected LED normally on.		
外壳防护等级 Ingress Protection Level	IP20		
额定断开续流值 Follow current Interrupting Rating	L-N	320V/100A	
	N-G		
导轨标准	宽度 35mm		

备注 1: 电涌保护器安装于受试设备后,
 依照 EN 61643-11 : 2012+A11, III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: L-N, 10kV/5kA, 2 ohm
 共模: L-G / N-G, 10 kV / 833 A, 12 ohm
 - 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。

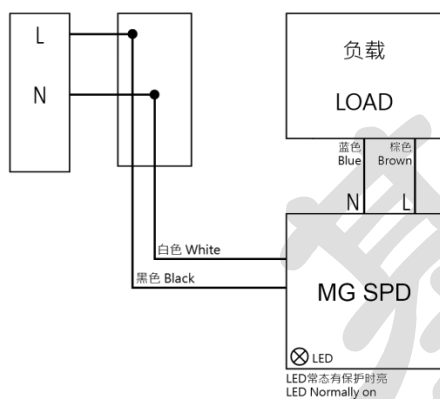
Note 1: After installed SPD in EUT,
 in according to EN 61643-11 : 2012+A11, class III,
 or in according to IEC 61000-4-5 : 2014
 - test waveform: combination wave;
 - the same sample be satisfied to .
 Differential mode : L-N, 10kV/5kA, 2 ohm
 Common mode : L-G / N-G, 10 kV / 833 A, 12ohm
 - number 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.

6 结构尺寸 Structure and Dimension



6.1 应用示意图 Application Schematic

串联接法 Series Connection 无对地 Without Ground
EZ10MG277M-TB-OVP/UVP



串联接法 Series Connection 有对地 With Ground
EZ10MG277M-G-TB-OVP/UVP

