

Description

Surge Protective Device (SPD), Type 5, with hybrid protection technology based on Metal Oxide Varistor (MOV) and Gas Discharge Tube (GDT) for electroelectronic equipment protection on power lines.

Characteristics

- Withstands voltage pulses up to 20 kV @ 1.2/50 μ s;
- Withstands current surges up to 20 kA @ 8/20 μ s;
- Load series connection;
- UL Recognized Component (UL 1449);
- Meets ANSI C82.77-5 2017: Category C High;
- RoHS compliant;
- LED indication for active protection.

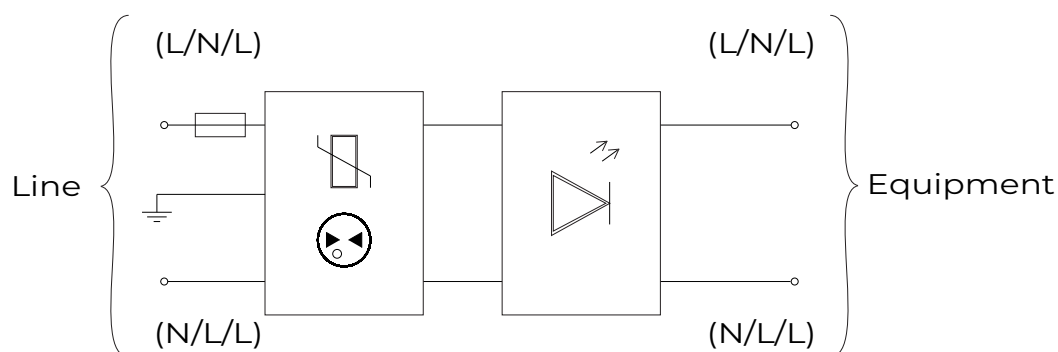
Applications

Protection of LED lighting systems applied in highways, public roads, tunnels, garages and parking lots.

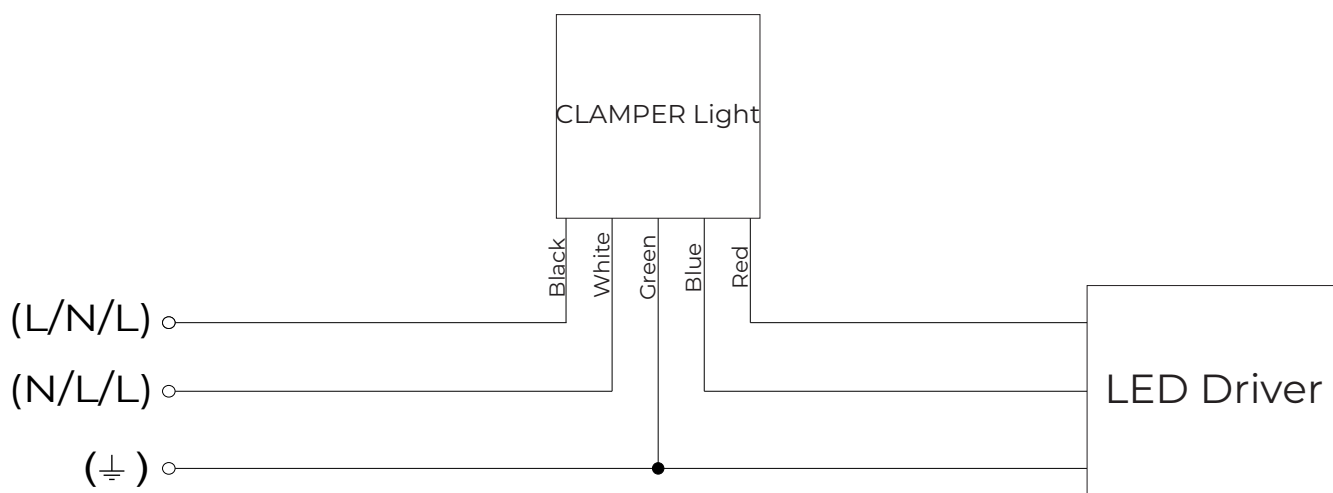
Agency	Standard	File N°
UL	UL 1449	E514682

Technical characteristics	Unit.	CLAMPER Light S T5	
Part Number	-	023179	023182
Models		277V 20kV	480V 20kV
RoHS	-	Yes	
Applied standard	-	UL 1449	
File Number	-	E514682	
Protection technology	-	Metal Oxide Varistor (MOV) and Gas Discharge Tube (GDT)	
Protection modes	-	L/N (differential mode) ; L/G - N/G (common mode)	
Typical response time	ns	< 25	
Nominal operating voltage	VAC	120 - 277 (47 - 63 Hz)	120 - 480 (47 - 63 Hz)
Nominal rated current - I_L	A	10	
Nominal discharge current @ 8/20 μ s - I_n	kA	10	
Maximum discharge current @ 8/20 μ s - I_{max}	kA	20	
Maximum continuous operating voltage - MCOV	VAC	320	550
Measured Limiting Voltage (8/20 μ s @ I_n) - MLV	V	L/N < 1220 L/G N/G < 1590	L/N < 1960 L/G N/G < 2400
Clamping Voltage (8/20 μ s @ I_n)	V	L/N < 800 L/G < 1390 N/G < 1390	L/N < 1930 L/G < 2300 N/G < 2300
Installation scheme	-	In series connection	
Electrical connection	AWG	Flexible cables # 16	
Cables length	mm (in)	150 (5.9)	
Operating temperature	°C	-40 ... +85	
Enclosure	-	Material with non-propagation and self-extinguishing characteristics	
Ingress protection	-	IP66	
Weight	g (lb)	77 (0.17)	
Maximum dimensions	mm (in)	55 (2.17) x 53 (2.09) x 45 (1.77)(L x W x H)	

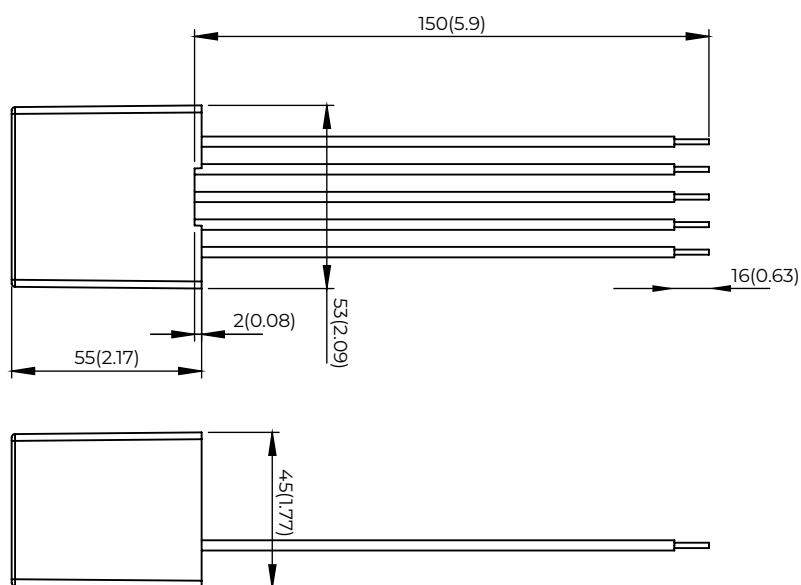
Electric diagram:



Connection diagram:



Mechanical drawing:



Dimensions in mm(in)