

## Description

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

## Characteristics

- Withstands voltage pulses up to 20 kV @ 1.2/50  $\mu$ s;
- Withstands current surges up to 20 kA @ 8/20  $\mu$ 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.

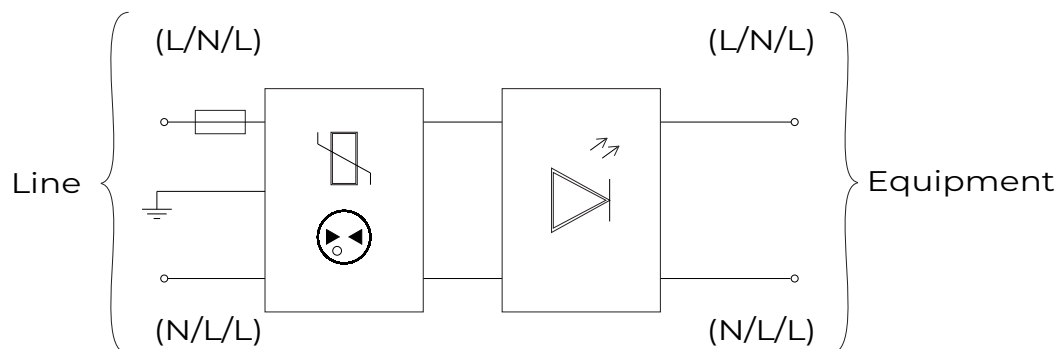
## Applications

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

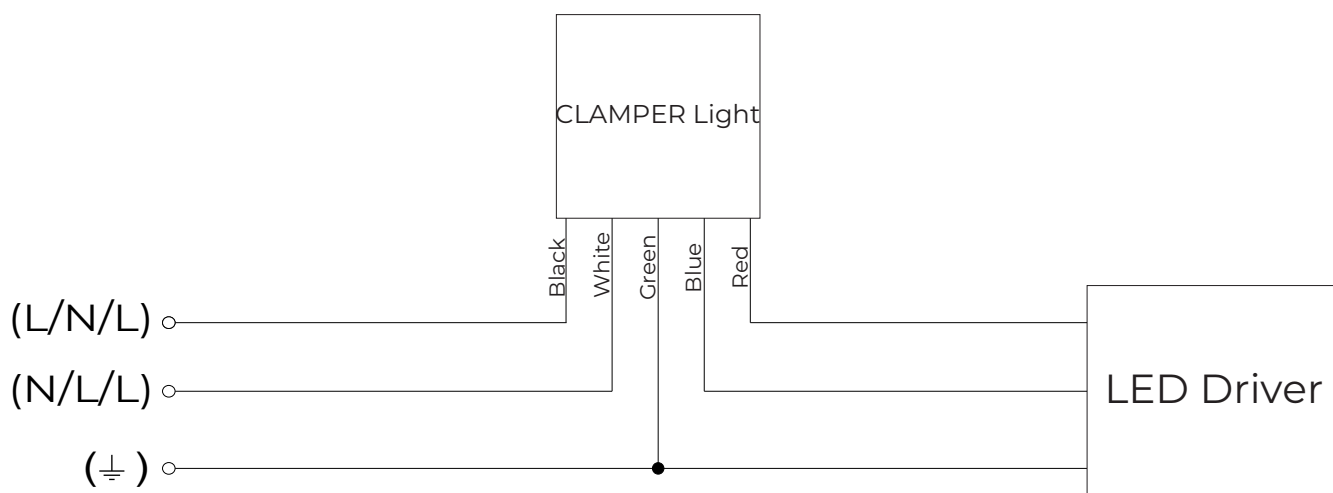
| Agency | Standard | File N° |
|--------|----------|---------|
| UL     | UL 1449  | E514682 |

| 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 $\mu$ s - $I_n$        | kA      | 10   |                                      |
| Maximum discharge current @ 8/20 $\mu$ s - $I_{max}$    | kA      | 20   |                                      |
| Maximum continuous operating voltage - MCOV             | VAC     | 320  | 550                                  |
| Measured Limiting Voltage (8/20 $\mu$ 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 $\mu$ 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)                         |                                      |

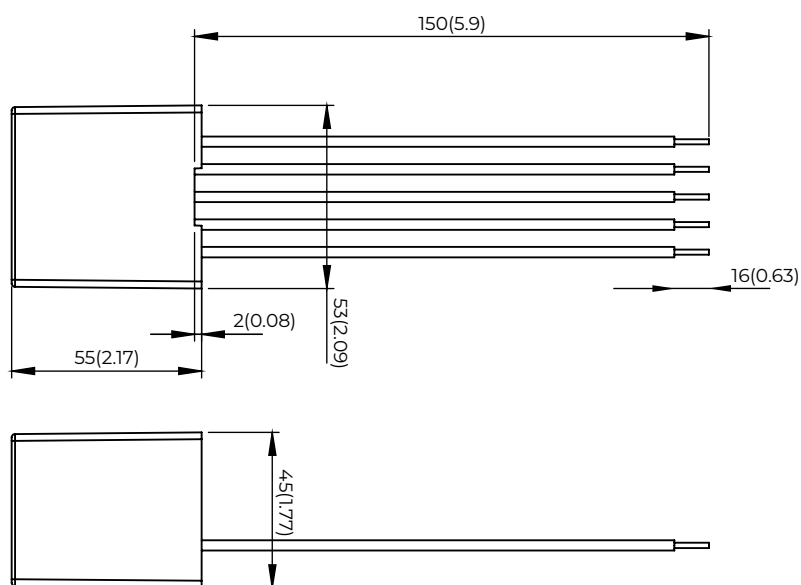
## Electric diagram:



## Connection diagram:



## Mechanical drawing:



Dimensions in mm(in)