



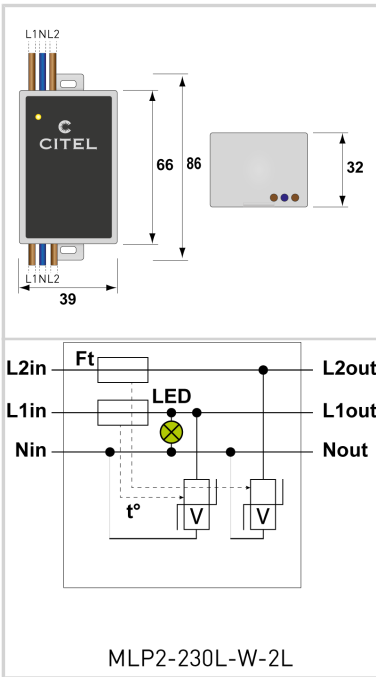
# CITEL

## Surge protector for LED lighting system Class 2

### MLP2-230L-W-2L

Specially developed spd with combined protection for 2-phase power supply (control phase):

- Many variants available depending on application
- With screw terminals or cable wiring
- IP65 versions
- For protection class I or II application
- Developed for Uoc: 10 kV and I<sub>max</sub>: 10 kA for highest outdoor requirements according to IEEE & ANSI
- Optical error signalling



| Electrical Characteristics   |                        |  |  |
|--|------------------------|--|--|
| SPD type   | IEC                    | 2+3                                      |  |
| AC system  |                        | TT-TN                                    |  |
| Nominal line voltage   | Un                     | 230-277 Vac                              |  |
| Max. AC operating voltage  | Uc                     | 305 Vac                                  |  |
| Max. frequency   | f max.                 | 10 MHz                                   |  |
| Max. load current @25°C  | IL                     | 2.5 A                                    |  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT                     | 335 Vac withstand                        |  |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT                     | 440 Vac disconnection                    |  |
| Residual Current Leakage current to Ground   | I <sub>pe</sub>        | None                                     |  |
| Follow current   | I <sub>f</sub>         | None                                     |  |
| Nominal discharge current 15 x 8/20 μs impulses  | I <sub>n</sub>         | 5 kA                                     |  |
| Max. discharge current max. withstand @ 8/20 μs by pole  | I <sub>max</sub>       | 10 kA                                    |  |
| Total Maximum discharge current max. total withstand @ 8/20 μs   | I <sub>max</sub> Total | 20 kA                                    |  |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | Uoc                    | 10 kV / 5 kA                             |  |
| Withstand on overvoltages IEEE C62.41.1  |                        | 10 kV / 10 kA                            |  |
| Protection level L/N @ I <sub>n</sub> (8/20μs)   | Up L/N                 | 1.5 kV                                   |  |
| Protection level L/PE @ I <sub>n</sub> (8/20μs)  | Up L/PE                | 1.5 kV                                   |  |
| Admissible short-circuit current   | I <sub>sc</sub>        | 10 000 A                                 |  |
| Mechanical Characteristics   |                        |  |  |
| Mounting   |                        | Wall or plate                            |  |
| Housing material   |                        | Thermoplastic UL94 V-0                   |  |
| Operating temperature  | Tu                     | -40/+85°C                                |  |
| Dimensions   |                        | See diagram                              |  |
| Disconnectors  |                        |  |  |
| Thermal disconnector   |                        | Internal                                 |  |
| Installation ground fault breaker  |                        | Type 'S' or delayed                      |  |
| Standards  |                        |  |  |
| Standards compliance   |                        | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |  |
| Part number  |                        |  |  |
| <b>731212</b>  |                        |  |  |

