



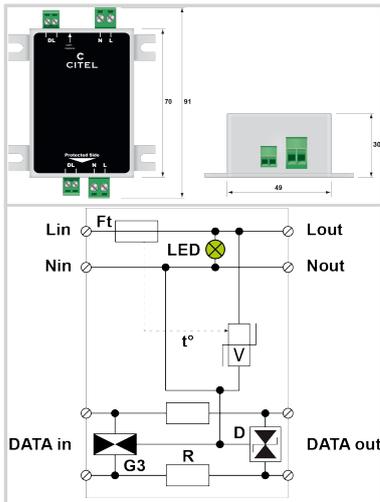
# CITEL

## Surge protectors for LED lighting system Class 2

### MLP2-230L-P/DL



- Type 2 or 3 surge protector for 2-phase (Power/Control)
- For LED lighting system
- Class II configuration
- IP65 version
- Very compact dimensions
- Max. discharge current 10kA
- EN 61643-11, IEC 61643-11 compliance



| 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   | Ipe        | None                                     |
| Follow current   | If         | None                                     |
| Nominal discharge current 15 x 8/20 μs impulses  | In         | 5 kA                                     |
| Max. discharge current max. withstand @ 8/20 μs by pole  | Imax       | 10 kA                                    |
| Total Maximum discharge current max. total withstand @ 8/20 μs   | Imax 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 mode(s)   |            | Common/Differential mode                 |
| Protection level L/N @ In (8/20μs)   | Up L/N     | 1.5 kV                                   |
| Protection level L/PE @ In (8/20μs)  | Up L/PE    | 1.5 kV                                   |
| Admissible short-circuit current   | Iscrc      | 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 |
| <b>Part number</b>   |            |  |
| <b>721232</b>  |            |  |

