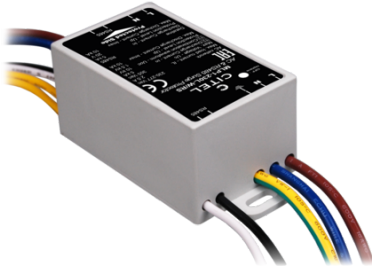




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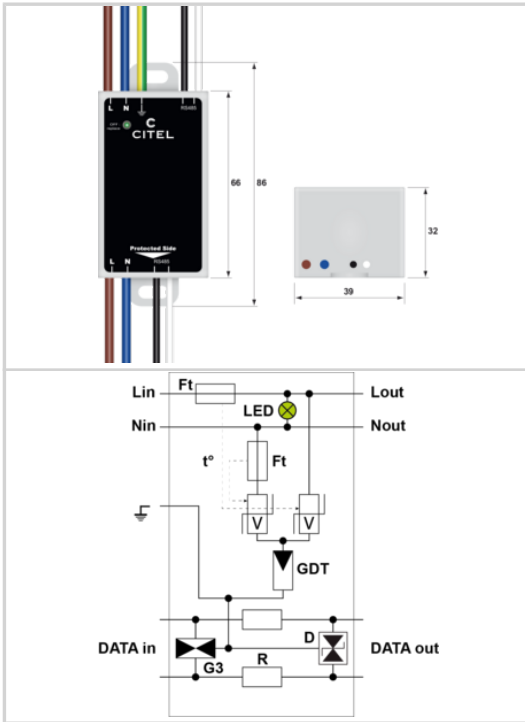
## Surge protector for LED lighting system Class 2

### MLP1-230L-W/RS



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   | 2+3                                      |
| Network  | 220-240 V Single-phase                   |
| 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)   | U <sub>p</sub> L/N 1.5 kV                |
| Protection level L/PE @ I <sub>n</sub> (8/20μs)  | U <sub>p</sub> L/PE 1.5 kV               |
| Admissible short-circuit current   | I <sub>sc</sub> 10 000 A                 |
| Mechanical Characteristics   |  |
| Technology   | MOV+GDT                                  |
| Mounting   | Wall or plate                            |
| Housing material   | Thermoplastic UL94 V-0                   |
| Operating temperature  | T <sub>u</sub> -40/+85°C                 |
| Protection rating  | IP20                                     |
| Failsafe mode  | Disconnection and AC line cut-off        |
| Disconnection indicator  | LED green OFF and AC network cut-off     |
| Voltage/operating indicator  | Green led(s) on                          |
| Remote signaling of disconnection  | No                                       |
| 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  | 711251                                   |

