



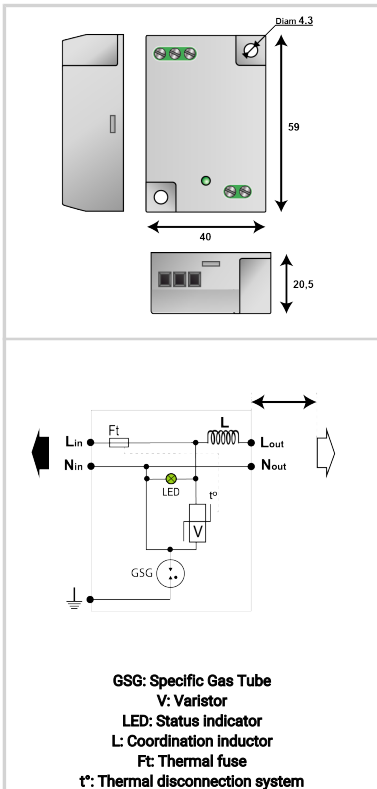
# CITEL

## AC surge protector for LED Lighting system Class 1

### MLPCH1-230L-V



- Type 2 (or 3) surge protectors for LED
- Optimized coordination with internal MOV of driver
- Very compact
- Plate mounting
- Screw terminal connection
- Status indicator
- Disconnection AC end of life
- IEC 61643-11 and EN 61643-11 compliance



| Electrical Characteristics   |            |   |
|--|------------|---|
| SPD type   | IEC        | 2+3   |
| Network  |            | 230-277 V Single-phase  |
| AC system  |            | TT-TN   |
| Max. AC operating voltage  | Uc         | 320 Vac   |
| Max. load current @25°C  | IL         | 2.5 A   |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT         | 335 Vac withstand   |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT         | 440 Vac disconnection   |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT         | 1200 V/300A/200 ms disconnection                                  |
| Nominal discharge current<br><i>15 x 8/20 μs impulses</i>  | In         | 5 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>  | Imax       | 10 kA   |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 μs</i>   | Imax Total | 20 kA   |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50μs - 8/20μs</i>                         | Uoc        | 10 kV   |
| Withstand on overvoltages IEEE C62.41.1  |            | 10 kV / 10 kA   |
| Protection mode(s)   |            | Common/Differential mode  |
| Protection level L/N<br><i>@ In (8/20μs)</i>   | Up L/N     | 1.5 kV  |
| Protection level L/PE<br><i>@ In (8/20μs)</i>  | Up L/PE    | 1.5 kV  |
| Admissible short-circuit current   | Iscrr      | 10 000 A  |
| Mechanical Characteristics   |            |   |
| Technology   |            | MOV+GDT   |
| Connection to Network  |            | 1 screw contact single side in/out - wire 2.5mm <sup>2</sup> max. |
| Mounting   |            | On plate  |
| Housing material   |            | Thermoplastic UL94 V-0  |
| Operating temperature  | Tu         | -40/+85°C   |
| Protection rating  |            | IP20  |
| Failsafe mode  |            | Disconnection and AC line cut-off                                 |
| Disconnection indicator  |            | LED green OFF and AC network cut-off                              |
| Operating indicator  |            | Green Led ON  |
| Dimensions   |            | See diagram   |
| Weight   |            | 0.046 kg  |
| Disconnectors  |            |   |
| Thermal disconnector   |            | Internal  |
| Installation ground fault breaker  |            | Type 'S' or delayed   |
| Standards  |            |   |
| Standards compliance   |            | EN 61643-11 / IEC 61643-11  |
| Part number  |            |   |
| <b>833221</b>  |            |   |

