



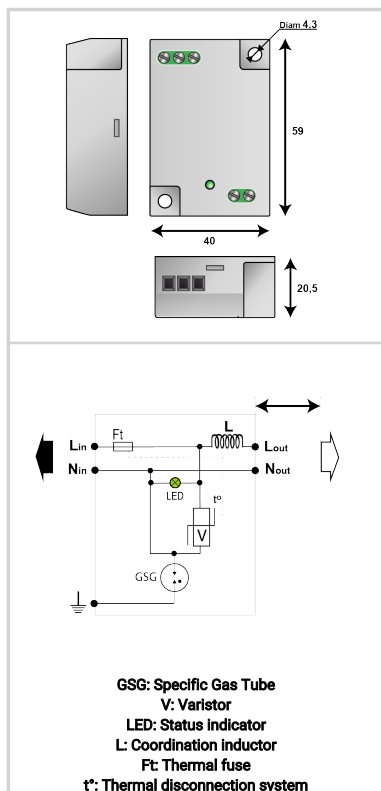
# CITEL



## 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. Without disconnection                              | UT         | 335 Vac withstand                                     |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT         | 440 Vac disconnection                                 |
| Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection                  | UT         | 1200 V/300A/200 ms disconnection                      |
| 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                                                 |
| 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                                                                         | Iscrr      | 10 000 A                                              |
| Mechanical Characteristics                                                                               |            |                                                       |
| Technology                                                                                               |            | MOV+GDT                                               |
| Connection to Network                                                                                    |            | 1 screw contact single side in/out - wire 2.5mm² 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                                                                                              |            |                                                       |
| 833221                                                                                                   |            |                                                       |

