



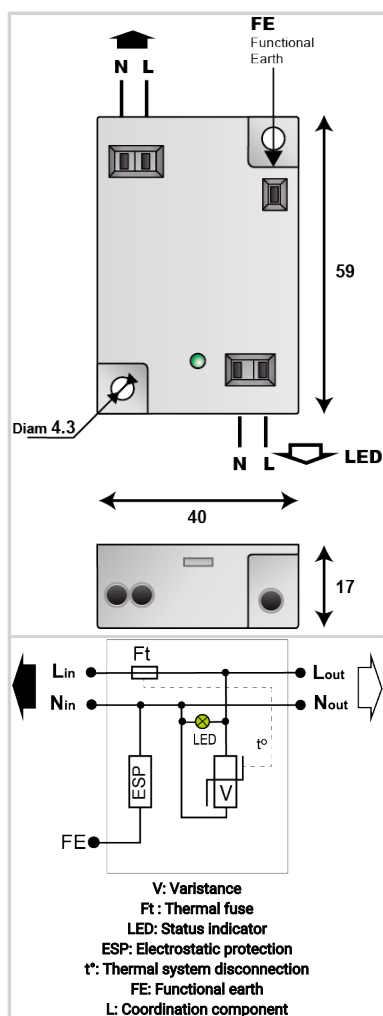
# CITEL

## Surge and Electrostatic protector for Class II LED lighting system

### MLPC2-230L-R/ESP2



- Type 2 (or 3) Surge & Electrostatic protectors
- For Class II Led lighting
- Improved coordination with internal MOV
- Electrostatic protection included
- Comply class II safety rules
- Very compact
- Plate mounting
- Spring terminal connection
- Status indicator
- End of life AC Disconnection
- IEC 61643-11 and EN 61643-11 compliance



| Electrical Characteristics                                                                                         |               |                                                           |
|--------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------|
| SPD type                                                                                                           | IEC           | 2+3                                                       |
| Network                                                                                                            |               | 220-240 V Single-phase                                    |
| AC system                                                                                                          |               | TT-TN                                                     |
| Max. AC operating voltage                                                                                          | Uc            | 320 Vac                                                   |
| Max. load current @25°C                                                                                            | IL            | 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                                     |
| Residual Current                                                                                                   | Ipe           | None                                                      |
| Leakage current to Ground                                                                                          | Ipe           | None                                                      |
| 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<br>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 level<br><i>@ In (8/20µs)</i>                                                                           | Up            | 1.5 kV                                                    |
| Admissible short-circuit current                                                                                   | Iscrr         | 10 000 A                                                  |
| Electrostatic protection level                                                                                     | Uesp          | 0.5 kV                                                    |
| Electrostatic protection mode                                                                                      |               | N/Functional Earth                                        |
| Mechanical Characteristics                                                                                         |               |                                                           |
| Connection to Network                                                                                              |               | 2 screw terminals opposite 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                                               |
| Disconnectors                                                                                                      |               |                                                           |
| Thermal disconnector                                                                                               |               | Internal                                                  |
| Installation ground fault breaker                                                                                  |               | Type 'S' or delayed                                       |
| Standards                                                                                                          |               |                                                           |
| Standards compliance                                                                                               |               | EN 61643-11 / IEC 61643-11                                |
| Part number                                                                                                        |               |                                                           |
| 832217                                                                                                             |               |                                                           |

