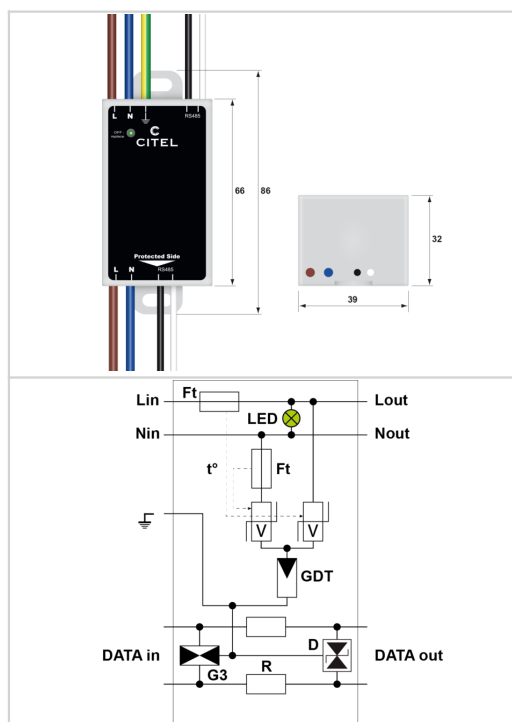
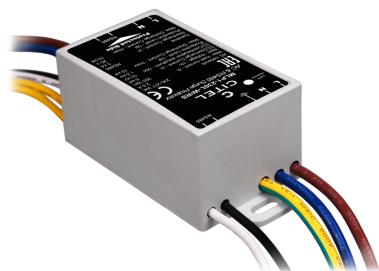


### MLP1-230L-W/RS

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 Imax: 10 kA for highest outdoor requirements according to IEEE & ANSI
- Optical error signalling



| Electrical Characteristics                                                                               |            |                                          |
|----------------------------------------------------------------------------------------------------------|------------|------------------------------------------|
| SPD type                                                                                                 | IEC        | 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                                                                                | Ipe        | None                                     |
| Follow current                                                                                           | If         | None                                     |
| Nominal discharge current<br>15 x 8/20 µs impulses                                                       | In         | 5 kA                                     |
| Max. discharge current<br>max. withstand @ 8/20 µs by pole                                               | Imax       | 10 kA                                    |
| Total Maximum discharge current<br>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 level L/N<br>@ In (8/20µs)                                                                    | Up L/N     | 1.5 kV                                   |
| Protection level L/PE<br>@ In (8/20µs)                                                                   | Up L/PE    | 1.5 kV                                   |
| Admissible short-circuit current                                                                         | Iscrc      | 10 000 A                                 |
| Mechanical Characteristics                                                                               |            |                                          |
| Technology                                                                                               |            | MOV+GDT                                  |
| Mounting                                                                                                 |            | Wall or 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(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                                                                                                   |            |                                          |