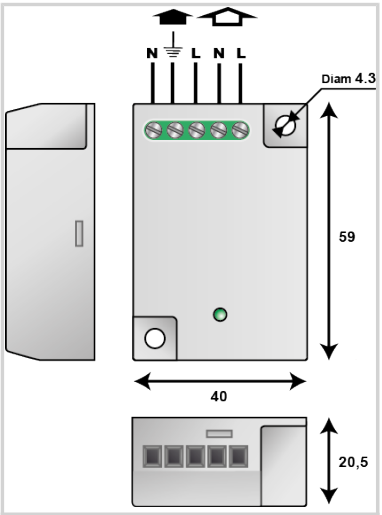
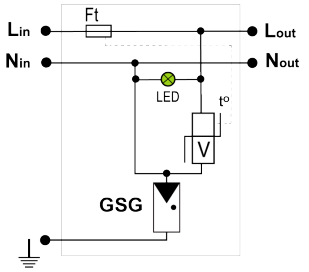
# *AC surge protector for LED Lighting system Class 1*

## MLPC1-230L-V/50




- Type 2 (or 3) surge protectors for LED
- Class 1
- Very compact
- Plate mounting
- Screw terminal connection
- Status indicator
- Disconnection AC end of life
- EN 61643-11 compliance




**V: Varistor**
**GSG: Specific gas tube**
**LED: Disconnection indicator**
**Ft: Thermal fuse**
**t°: Thermal system disconnection**

| 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>*Without disconnection* | UT | 335 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>*Without disconnection or with safety disconnection* | UT | 440 Vac disconnection |
| Temporary Over Voltage N/PE (TOV HT)<br>*Without disconnection or with safety disconnection* | UT | 1200 V/300A/200 ms disconnection |
| Residual Current<br>*Leakage current to Ground* | Ipe | 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<br>*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<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 | Isccr | 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 |
| **Disconnectors** | | |
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| **Standards** | | |
| Standards compliance | | EN 61643-11 / IEC 61643-11 |
| Certification | | / TUV / IMQ / ROHS |
| **Part number** | | |
| **831222** | | |