



CITEL

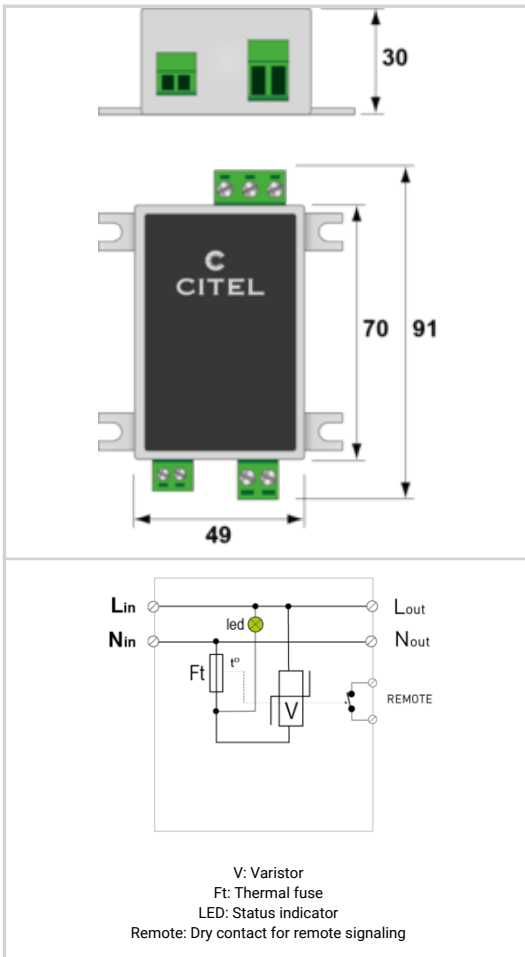
Surge protectors for LED lighting system Class 2

MLP2-230S-P



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 I_{max}: 10 kA for highest outdoor requirements according to IEEE & ANSI
- Optical error signalling



Electrical Characteristics	
SPD type	2+3
Network	220-240 V Single-phase
AC system	TT-TN
Nominal line voltage	Un 220-240 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	I _{pe} None
Follow current	I _f None
Nominal discharge current 15 x 8/20 μs impulses	I _n 5 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I _{max} 10 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I _{max} 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 mode(s)	Differential Mode
Protection level L/N @ I _n (8/20μs)	U _p L/N 1.5 kV
Protection level L/PE @ I _n (8/20μs)	U _p L/PE 1.5 kV
Admissible short-circuit current	I _{sc} 10 000 A
Mechanical Characteristics	
Technology	MOV+GDT
Connection to Network	By screw terminal: 1.5mm ² max.
Mounting	On plate
Housing material	Thermoplastic UL94 V-0
Operating temperature	Tu -40/+85°C
Protection rating	IP20
Failsafe mode	Disconnection and AC continuity
Disconnection indicator	Green LED OFF and remote signaling
Voltage/operating indicator	Green Led ON
Remote signaling of disconnection	yes : output on contact NO
Dimensions	See diagram
Weight	0.081 kg
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	721202

