



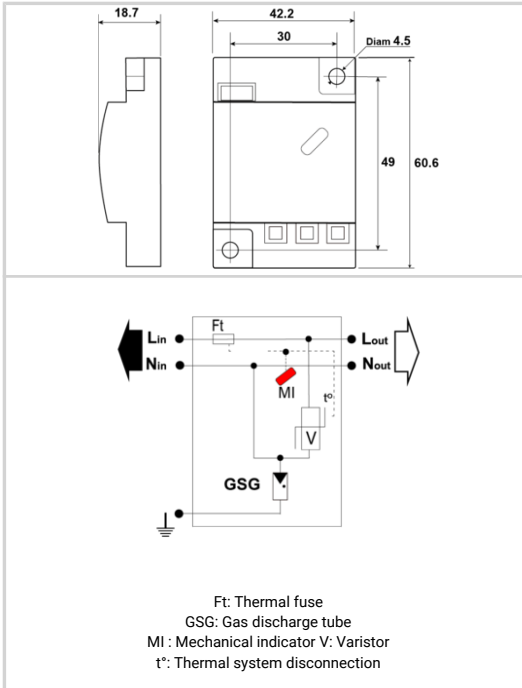
# Surge protector for LED lighting system Class 1

# CITEL

## MLPM1-230L-R



- Type 2 (or 3) surge protectors for LED
- For single phase 230 V network
- Class 1
- Very compact
- Plate mounting
- Spring terminal connection
- Status indicator
- End of life : AC Disconnection
- EN 61643-11, IEC 61643-11 certified



Electrical Characteristics	
SPD type	2+3
Network	220-240 V Single-phase
AC system	TT-TN
Max. AC operating voltage	Uc 275 Vac
Max. load current @25°C	IL 10 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
Residual Current Leakage current to Ground	Ipe None
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 12 kV
Protection mode(s)	Common/Differential mode
Protection level L/N @ In (8/20µs)	Up L/N 1.2 kV
Protection level L/PE @ In (8/20µs)	Up L/PE 1.5 kV
Admissible short-circuit current	Iscrc 10 000 A
Mechanical Characteristics	
Technology	MOV+GDT
Connection to Network	2 spring terminals opposite side in/out - wire 1.5mm² 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	Red indicator
Voltage/operating indicator	Mechanical
Dimensions	See diagram
Weight	0.027 kg
Disconnectors	
Thermal disconnector	Internal
Installation ground fault breaker	Type 'S' or delayed
Standards	
Standards compliance	EN 61643-11 / IEC 61643-11
Certification	KEMA
Part number	
841211	

