



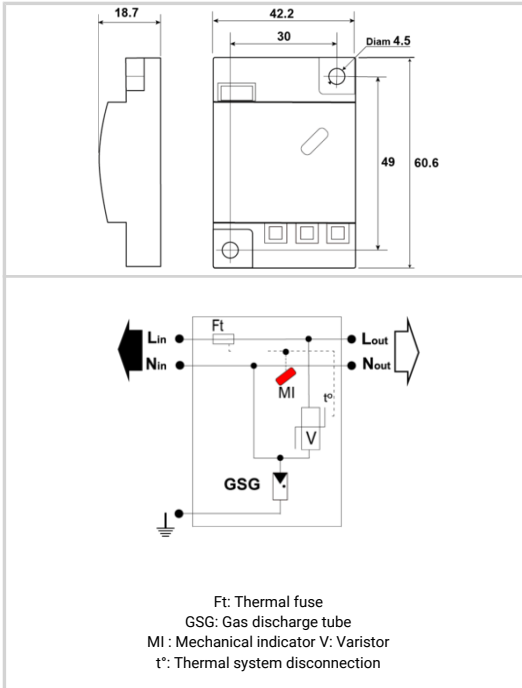
# Surge protector for LED lighting system Class 1

# 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

