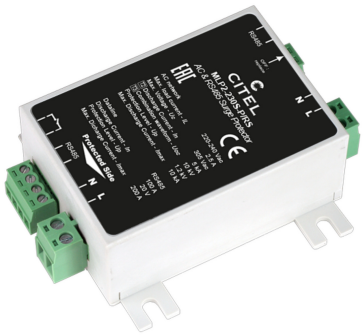
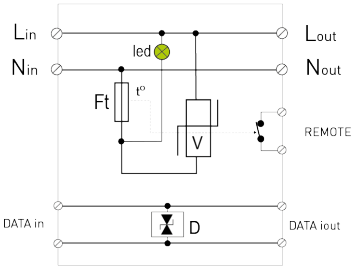
AC/Data surge protector for Led lighting system Class 2

MLP2-230S-P/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



V: Varistor
Ft: Thermal fuse
LED: Status indicator
D: Clamping diode
Remote: Dry contact for remote signaling

Electrical Characteristics		
SPD type	IEC	2+3
Network		AC: 220-240 V single-phase I Dataline: RS485 or 0-10V
AC system		TT-TN
Nominal line voltage	Un	230-277 Vac
Max. AC operating voltage	Uc	AC : 305 Vac I DATA : 15 Vac
Max. frequency	f max.	DATA : 10 MHz
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 *15 x 8/20 µs impulses*	In	5 kA
Total Maximum discharge current *max. total withstand @ 8/20 µs*	Imax Total	AC : 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 *@ In (8/20µs)*	Up L/N	1.5 kV
Protection level L/PE *@ In (8/20µs)*	Up L/PE	1.5 kV
Admissible short-circuit current	Isccr	10 000 A
ELEC		
Nominal line voltage	Un	12 V
ELEC		
Insertion loss		< 1dB
ELEC		
Max. load current @25°C	IL	AC : 2.5 A I DATA : 300mA
ELEC		
Nominal discharge current *15 x 8/20 µs impulses*	In	AC : 5kA I DATA : 5 kA
ELEC		
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	AC : 10 kA I DATA : 200 kA
ELEC		
Protection level *@ In (8/20µs)*	Up	DATA : 30 V
Mechanical Characteristics		
Technology		MOV+GDT
Connection to Network		By screw terminal: 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 continuity
Disconnection indicator		Green LED OFF and remote signaling
Operating indicator		Green Led ON
Remote signaling of disconnection		yes : output on contact NO
Dimensions		See diagram
Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Standards		
Standards compliance		IEC 61643-21 / EN 61643-21 / UL1449 ed.5
Part number		
721242		