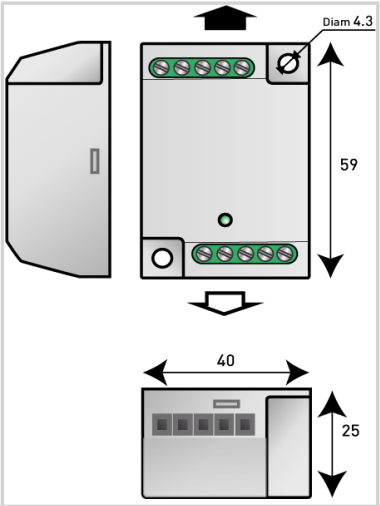
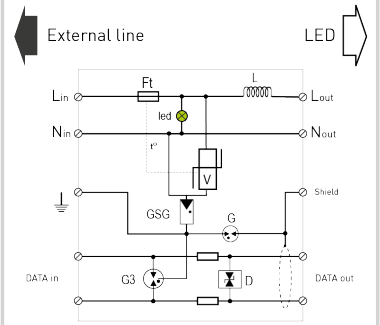
Combined AC/Dataline surge protector for LED lighting system Class 1

MLPCH1-230L-V/DL

- Type 2 (or 3) surge protector for Class 1 LED Lighting
- Combined AC/Dataline surge protection
- DALI, DMX, RS485, 0-10V datalines compliance
- Shield wire management
- Optimized coordination with driver
- Compact dimensions
- Screw connection
- Max. discharge current 10 kA
- Certified IEC 61643-11 and IEC 61643-21





GSG: Specific Gas Tube G: Gas tube 2-pole
G3: Gas tube 3-pole
V: Varistor
D: Clamping diode
L: Inductor
Ft: Thermal fuse
t°: Thermal disconnection system
LED: Status indicator

Electrical Characteristics		
Network		230/400V
AC system		TT-TN
Max. Data operating voltage	Uc	28 Vdc
Max. AC operating voltage	Uc	320 Vac
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*	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
Withstand on Combination waveform IEC 61643-11 *Class III test: 1.2/50µs - 8/20µs*	Uoc	10 kV / 5 kA
Protection mode(s)		Common/Differential mode
Protection level *@ In (8/20 µs)*	Up L/L	50 V
Protection level L/N *@ In (8/20µs)*	Up L/N	1.5 kV
Protection level N/PE *@ In (8/20µs)*	Up N/PE	1.5 kV
Line/Line Nominal discharge current *C2 Category*	In L/L	5 kA
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, Green Led OFF and power cut off
Disconnection indicator		LED green OFF and AC network cut-off
Dimensions		See diagram
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / IEC 61643-21 / EN 61643-21 / UL1449 ed.5
Certification		KEMA / ENEC05
Part number		
833223		