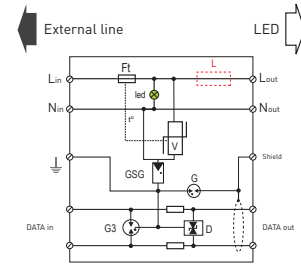
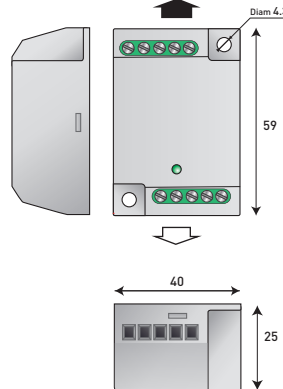


Combined AC/Dataline LED lighting Surge Protector MLPC1-230L-V/DL



- V MOV
- GSG Specific Gas tube
- G 2-pole Gas tube
- G3 3-pole Gas tube
- D Clamping diode network
- L Coordination inductor (option)
- Ft Thermal fuse
- led Status indicator

- 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 (option : MLPCH1-230L-V/DL)
- Compact dimensions
- Screw connection
- Max. discharge current 10 kA
- IEC 61643-11 and IEC61643-21 compliance

Characteristics

CITEL Model	MLPC1-230L-V/DL
Description	AC/Dataline surge protector for Led lighting system Class 1
AC power specifications	
AC network	230 V single phase
AC system	TT-TN
Protection mode(s)	L/N and N/PE
Max. AC operating voltage	Uc 320 Vac
Max. Load current	IL 5 A (2.5A*)
Residual current - Leakage current at Uc	Ipe None
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT 335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120mn	UT 440 Vac disconnection
Nominal discharge current - 15 x 8/20 μs impulses	In 5 kA
Max. discharge current -max. withstand @ 8/20 μs by pole	I _{max} 10 kA
Withstand on Combination waveform - Class III test	Uoc 10 kV/5 kA
Protection level L-N/N-PE @ I _n (8/20μs)	Up 1.5 kV/ 1.5 kV
Admissible short-circuit current	I _{scrr} 10000 A
Connection to Network	screw connection - wire 1.5mm ² max
Voltage/operating indicator	Green led ON
Thermal disconnecter	internal
Failsafe behavior	Disconnection, Green Led OFF and AC line cut-off
Specific version for optimized coordination with driver	MLPCH1-230L-V/DL*
Dataline specifications	
Network compliance	DALI/DMX/RS485/0-10V
Dataline Configuration	1-pair + shield
Nominal line voltage	Un 24 V
Max. DC operating voltage	Uc 28 V
Max. Load current	IL 300mA
Max. frequency	f max 10 MHz
Insertion loss	< 1dB
Nominal discharge current - 15 x 8/20 μs impulses	In 5 kA
Max. discharge current -max. withstand @ 8/20 μs by pole	I _{max} 10 kA
Protection level (line/line or line/PE)	Up 50 V
Protection level Shield/PE	Up < 600 V
Connection to Network	screw connection - wire 1.5 mm ² max
Disconnection indication	Transmission cut-off
Mechanical characteristics	
Dimensions	see diagram
Mounting	on plate
Operating temperature	-40/+85°C
Protection rating	IP20
Housing material	Thermoplastic UL94-V0
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.4 IEC 61643-21 / EN 61643-21 / UL497A