



# CITEL

## AC surge protector for LED Lighting system Class 1

### MLPC1-230L-V/2L



- Type 2 (or 3) surge protector for Class I LED Lighting
- AC surge protection for 2-Phase + Neutral network
- Compact dimensions
- Screw connection
- Max. discharge current 10 kA
- Certified IEC 61643-11



	<b>Electrical Characteristics</b>																																														
<p>G: Gas tube 2-pole G3: Gas tube 3-pole D: Clamping diode network V: Varistor LED: Status indicator Ft: Thermal fuse</p>	<table border="1"> <tr> <td>SPD type</td> <td></td> <td>2 (or 3)</td> </tr> <tr> <td>Network</td> <td></td> <td>2-phase + N 230 V</td> </tr> <tr> <td>AC system</td> <td></td> <td>TT-TN</td> </tr> <tr> <td>Max. AC operating voltage</td> <td>Uc</td> <td>320 Vac</td> </tr> <tr> <td>Max. load current @25°C</td> <td>IL</td> <td>5 A</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection</td> <td>UT</td> <td>335 Vac withstand</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection</td> <td>UT</td> <td>440 Vac disconnection</td> </tr> <tr> <td>Residual Current Leakage current to Ground</td> <td>Ipe</td> <td>None</td> </tr> <tr> <td>Nominal discharge current 15 x 8/20 μs impulses</td> <td>In</td> <td>5 kA</td> </tr> <tr> <td>Max. discharge current max. withstand @ 8/20 μs by pole</td> <td>I<sub>max</sub></td> <td>10 kA</td> </tr> <tr> <td>Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs</td> <td>Uoc</td> <td>10 kV / 5 kA</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>L1/N, L2/N and N/PE</td> </tr> <tr> <td>Protection level L/N @ In (8/20μs)</td> <td>Up L/N</td> <td>1.5 kV</td> </tr> <tr> <td>Protection level N/PE @ In (8/20μs)</td> <td>Up N/PE</td> <td>1.5 kV</td> </tr> <tr> <td>Admissible short-circuit current</td> <td>I<sub>sc</sub></td> <td>10 000 A</td> </tr> </table>		SPD type		2 (or 3)	Network		2-phase + N 230 V	AC system		TT-TN	Max. AC operating voltage	Uc	320 Vac	Max. load current @25°C	IL	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	I <sub>max</sub>	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)		L1/N, L2/N and N/PE	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	Admissible short-circuit current	I <sub>sc</sub>	10 000 A
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<b>Mechanical Characteristics</b>																																															
Connection to Network		By screw terminal: 1.5mm <sup>2</sup> 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																																													
Voltage/operating indicator		Green Led ON																																													
Dimensions		See diagram																																													
Weight		0.057 kg																																													
<b>Disconnectors</b>																																															
Thermal disconnector		Internal																																													
<b>Standards</b>																																															
Standards compliance		IEC 61643-11 / EN 61643-11																																													
Certification		KEMA																																													
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