



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



	Electrical Characteristics																																														
<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_{max}</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_{sc}</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 _{max}	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 _{sc}	10 000 A
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 _{max}	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 _{sc}	10 000 A																																													
Mechanical Characteristics																																															
Connection to Network		By screw terminal: 1.5mm ² 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																																													
Disconnectors																																															
Thermal disconnector		Internal																																													
Standards																																															
Standards compliance		IEC 61643-11 / EN 61643-11																																													
Certification		KEMA																																													
Part number		831225																																													

