

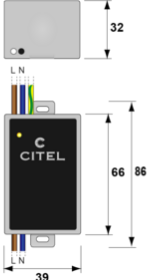
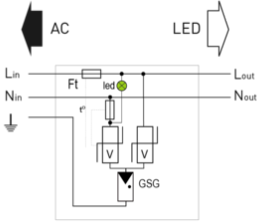
MLP1-120L-W



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 U_{oc} : 10 kV and I_{max} : 10 kA for highest outdoor requirements according to IEEE & ANSI
- Optical error signalling



	Electrical Characteristics																																																										
 <p>V : Varistor Ft: Thermal fuse GSG: Specific gas tube LED: Status indicator t*: Thermal system disconnection</p>	<table border="1"> <tr> <td>SPD type</td> <td></td> <td>2+3</td> </tr> <tr> <td>Network</td> <td></td> <td>110-120 V single-phase</td> </tr> <tr> <td>AC system</td> <td></td> <td>TT-TN</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>110-120 Vac</td> </tr> <tr> <td>Max. AC operating voltage</td> <td>Uc</td> <td>180 Vac</td> </tr> <tr> <td>Max. load current</td> <td>IL</td> <td>2.5 A</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection</td> <td>UT</td> <td>175 Vac withstand</td> </tr> <tr> <td>Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection</td> <td>UT</td> <td>230 Vac disconnection</td> </tr> <tr> <td>Residual Current Leakage current to Ground</td> <td>Ipe</td> <td>None</td> </tr> <tr> <td>Follow current</td> <td>If</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>Total Maximum discharge current max. total withstand @ 8/20 μs</td> <td>I_{max} Total</td> <td>20 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>Withstand on overvoltages IEEE C62.41.1</td> <td></td> <td>10 kV / 10 kA</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</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 L/PE @ In (8/20μs)</td> <td>Up L/PE</td> <td>1.2 kV</td> </tr> <tr> <td>Admissible short-circuit current</td> <td>Iscrc</td> <td>10 000 A</td> </tr> </table>		SPD type		2+3	Network		110-120 V single-phase	AC system		TT-TN	Nominal line voltage	Un	110-120 Vac	Max. AC operating voltage	Uc	180 Vac	Max. load current	IL	2.5 A	Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	175 Vac withstand	Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	230 Vac disconnection	Residual Current Leakage current to Ground	Ipe	None	Follow current	If	None	Nominal discharge current 15 x 8/20 μ s impulses	In	5 kA	Max. discharge current max. withstand @ 8/20 μ s by pole	I _{max}	10 kA	Total Maximum discharge current max. total withstand @ 8/20 μ s	I _{max} Total	20 kA	Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 μ s - 8/20 μ s	Uoc	10 kV / 5 kA	Withstand on overvoltages IEEE C62.41.1		10 kV / 10 kA	Protection mode(s)		Common/Differential mode	Protection level L/N @ In (8/20 μ s)	Up L/N	1.5 kV	Protection level L/PE @ In (8/20 μ s)	Up L/PE	1.2 kV	Admissible short-circuit current	Iscrc	10 000 A
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	Mechanical Characteristics																																																										
	Technology	MOV+GDT																																																									
	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 and AC line cut-off																																																									
	Disconnection indicator	LED green OFF and AC network cut-off																																																									
	Voltage/operating indicator	Green Led ON																																																									
	Remote signaling of disconnection	No																																																									
	Dimensions	See diagram																																																									
	Disconnectors																																																										
	Thermal disconnector	Internal																																																									
	Installation ground fault breaker	Type 'S' or delayed																																																									
	Standards																																																										
	Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5																																																									
	Part number	711111																																																									