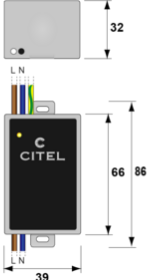
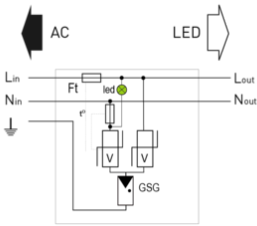




Specially developed spd with combined protection for 2-phase power supply (control phase):

- Many variants available depending on application
- With screw terminals or cable wiring
- IP65 versions
- For protection class I or II application
- Developed for Uoc: 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 @25°C</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>I_{sc}</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 @25°C	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 μs impulses	In	5 kA	Max. discharge current max. withstand @ 8/20 μs by pole	I _{max}	10 kA	Total Maximum discharge current max. total withstand @ 8/20 μs	I _{max} Total	20 kA	Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs	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 (8/20μs)	Up L/N	1.5 kV	Protection level L/PE @ In (8/20μs)	Up L/PE	1.2 kV	Admissible short-circuit current	I _{sc}	10 000 A
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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																																																									