



NEW CITEL PV SPD

- Type 2+3 surge protector for Photovoltaic
- CTC Technology
- VG Technology
- Discharge currents I_{max}/I_{total}: 40/60 kA (8/20μs)
- Common/Differential mode protection
- Remote signaling
- IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance
- Certified EN 61643-31 and IEC 61643-31



	Electrical Characteristics																																																							
<p>V: High-energy varistor GSG: Specific gas tube Ft: Thermal fuse C: Remote signaling contact t*: Thermal disconnection system MI: Mechanical status indicator</p>	<table border="1"> <tr><td>SPD type</td><td></td><td>2+3</td></tr> <tr><td>Network</td><td></td><td>PV 1200 Vdc</td></tr> <tr><td>Nominal PV voltage</td><td>U_{ocstc}</td><td>1000 Vdc</td></tr> <tr><td>Max. PV operating voltage</td><td>U_{cpv}</td><td>1200 Vdc</td></tr> <tr><td>Residual Current <i>Leakage current to Ground</i></td><td>I_{pe}</td><td>None</td></tr> <tr><td>PV Permanent Operating current <i>Current consumption at U_{cpv}</i></td><td>I_{cpv}</td><td>None</td></tr> <tr><td>Follow current</td><td>I_f</td><td>None</td></tr> <tr><td>Nominal discharge current <i>15 x 8/20 μs impulses</i></td><td>I_n</td><td>20 kA</td></tr> <tr><td>Max. discharge current <i>max. withstand @ 8/20 μs by pole</i></td><td>I_{max}</td><td>40 kA</td></tr> <tr><td>Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i></td><td>I_{max Total}</td><td>60 kA</td></tr> <tr><td>Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i></td><td>U_{oc}</td><td>6 kV</td></tr> <tr><td>Current withstand short circuit PV</td><td>I_{scpv}</td><td>15 000 A</td></tr> <tr><td>Connection mode(s)</td><td></td><td>+/-/PE</td></tr> <tr><td>Protection mode(s)</td><td></td><td>Common/Differential mode</td></tr> <tr><td>Protection level +/- <i>@ I_n (8/20μs)</i></td><td>U_p</td><td>4.3 kV</td></tr> <tr><td>Protection level +/-PE (-/PE) <i>@ I_n (8/20μs)</i></td><td>U_p</td><td>4.3 kV</td></tr> <tr><td>Protection level at 5 kA <i>@ 5 kA (8/20μs)</i></td><td>U_p</td><td>3,5 kV</td></tr> <tr><td>Protection level at U_{oc} <i>@ U_{oc} (1.2/50 μs)</i></td><td>U_p</td><td>3,1 kV</td></tr> </table>		SPD type		2+3	Network		PV 1200 Vdc	Nominal PV voltage	U _{ocstc}	1000 Vdc	Max. PV operating voltage	U _{cpv}	1200 Vdc	Residual Current <i>Leakage current to Ground</i>	I _{pe}	None	PV Permanent Operating current <i>Current consumption at U_{cpv}</i>	I _{cpv}	None	Follow current	I _f	None	Nominal discharge current <i>15 x 8/20 μs impulses</i>	I _n	20 kA	Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I _{max}	40 kA	Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i>	I _{max Total}	60 kA	Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i>	U _{oc}	6 kV	Current withstand short circuit PV	I _{scpv}	15 000 A	Connection mode(s)		+/-/PE	Protection mode(s)		Common/Differential mode	Protection level +/- <i>@ I_n (8/20μs)</i>	U _p	4.3 kV	Protection level +/-PE (-/PE) <i>@ I_n (8/20μs)</i>	U _p	4.3 kV	Protection level at 5 kA <i>@ 5 kA (8/20μs)</i>	U _p	3,5 kV	Protection level at U _{oc} <i>@ U_{oc} (1.2/50 μs)</i>	U _p	3,1 kV
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