



NEW CITEL PV SPD

- ↳ Combined SPD type 1+2+3
- ↳ CTC-Technology
- ↳ Discharge capacity per pole: limp/total= 6.25/12.5 kA (10/350 µs); In/total= 15/60 kA (8/20 µs)
- ↳ Safe disconnecting device
- ↳ Fault-resistant Y-circuit
- ↳ Remote signaling
- ↳ Complies with the IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 and UTE C 61-740-51 standards
- ↳ Certified EN 61643-31 and IEC 61643-31



	<p><b>Electrical Characteristics</b></p>																																																																															
<p>V: High-energy varistor Ft: Thermal fuse C: Remote signal contact t*: Thermal disconnection system MI: Mechanical disconnection indicator</p>	<table border="1"> <tr><td>SPD type</td><td>IEC</td><td>1+2+3</td></tr> <tr><td>Network</td><td></td><td>PV 1500 Vdc</td></tr> <tr><td>Nominal PV voltage</td><td>Uocstc</td><td>1250 Vdc</td></tr> <tr><td>Max. PV operating voltage</td><td>Ucpv</td><td>1500 Vdc</td></tr> <tr><td>Residual Current</td><td></td><td></td></tr> <tr><td>Leakage current to Ground</td><td>Ipe</td><td>&lt; 0.1 mA</td></tr> <tr><td>PV Permanent Operating current</td><td></td><td></td></tr> <tr><td>Current consumption at Ucpv</td><td>Icpv</td><td>&lt; 0.1 mA</td></tr> <tr><td>Follow current</td><td>If</td><td>None</td></tr> <tr><td>Nominal discharge current</td><td>In</td><td>20 kA</td></tr> <tr><td>15 x 8/20 µs impulses</td><td></td><td></td></tr> <tr><td>Max. discharge current</td><td></td><td></td></tr> <tr><td>max. withstand @ 8/20 µs by pole</td><td>Imax</td><td>40 kA</td></tr> <tr><td>Total Maximum discharge current</td><td></td><td></td></tr> <tr><td>max. total withstand @ 8/20 µs</td><td>Imax Total</td><td>60 kA</td></tr> <tr><td>Impulse current by pole</td><td></td><td></td></tr> <tr><td>max. withstand @ 10/350µs by pole</td><td>limp</td><td>6.25 kA</td></tr> <tr><td>Total lightning current</td><td></td><td></td></tr> <tr><td>max. total withstand @ 10/350µs</td><td>Itotal</td><td>12.5 kA</td></tr> <tr><td>Withstand on Combination waveform IEC 61643-11</td><td></td><td></td></tr> <tr><td>Class III test: 1.2/50µs - 8/20µs</td><td>Uoc</td><td>6 kV</td></tr> <tr><td>Current withstand short circuit PV</td><td>Iscpv</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 +/- @ In (8/20µs)</td><td>Up</td><td>4.8 kV</td></tr> <tr><td>Protection level +/-PE (-/PE) @ In (8/20µs)</td><td>Up</td><td>4.8 kV</td></tr> </table>		SPD type	IEC	1+2+3	Network		PV 1500 Vdc	Nominal PV voltage	Uocstc	1250 Vdc	Max. PV operating voltage	Ucpv	1500 Vdc	Residual Current			Leakage current to Ground	Ipe	< 0.1 mA	PV Permanent Operating current			Current consumption at Ucpv	Icpv	< 0.1 mA	Follow current	If	None	Nominal discharge current	In	20 kA	15 x 8/20 µs impulses			Max. discharge current			max. withstand @ 8/20 µs by pole	Imax	40 kA	Total Maximum discharge current			max. total withstand @ 8/20 µs	Imax Total	60 kA	Impulse current by pole			max. withstand @ 10/350µs by pole	limp	6.25 kA	Total lightning current			max. total withstand @ 10/350µs	Itotal	12.5 kA	Withstand on Combination waveform IEC 61643-11			Class III test: 1.2/50µs - 8/20µs	Uoc	6 kV	Current withstand short circuit PV	Iscpv	15 000 A	Connection mode(s)		+/-/PE	Protection mode(s)		Common/Differential mode	Protection level +/- @ In (8/20µs)	Up	4.8 kV	Protection level +/-PE (-/PE) @ In (8/20µs)	Up	4.8 kV
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