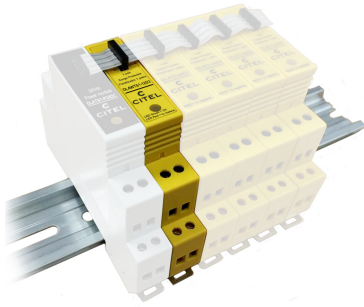




# CITEL

## 1-pair DIN rail plug-in Data surge protector

### DLAWTS1-12D3



- Surge protection for 1-pair
- Pluggable protection module
- Optical fault indication
- Remote signalling (DLAWTS1-48DC required for power supply)
- Indirect shield connection
- Indirect earthing
- Signal interruption when module is disconnected
- Conforms to IEC 61643-21, VDE 0845-3-1 and UL497B



	<b>Electrical Characteristics</b>																																																
<p> <b>G: 3-electrode gas tube</b>  <b>Gb: 2-electrode gas tube</b>  <b>PTC: Thermal resistor</b>  <b>R: Resistor</b>  <b>D: Clamping diode</b>  <b>Vi: Indicator</b> </p>	<table border="1"> <tr> <td>Network</td> <td></td> <td>RS232, RS485</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>12 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>15 Vdc</td> </tr> <tr> <td>Max. frequency</td> <td>f max.</td> <td>3 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>&lt; 1 dB</td> </tr> <tr> <td>Max. load current @25°C</td> <td>IL</td> <td>300 mA</td> </tr> <tr> <td>Max. discharge current <i>max. withstand @ 8/20 μs by pole</i></td> <td>I<sub>max</sub></td> <td>20 kA</td> </tr> <tr> <td>Nominal discharge current <i>C2 Category</i></td> <td>I<sub>n</sub></td> <td>5 kA</td> </tr> <tr> <td>Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i></td> <td>I<sub>n L/PE</sub></td> <td>5 kA</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection Level <i>C3 (10/1000 μs), 300 applications@10 A, Y-Y (Line/Line)</i></td> <td>Up</td> <td>30 V</td> </tr> <tr> <td>Protection Level <i>C3 (10/1000 μs), 300 applications@10 A, X-C (Line/Earth)</i></td> <td>Up</td> <td>30 V</td> </tr> <tr> <td>Max. capacitance</td> <td>C</td> <td>&lt; 50 pF</td> </tr> <tr> <td>Impulse current <i>D1 (10/350 μs), 2 applications, X-C (Line/Earth)</i></td> <td>I<sub>imp</sub></td> <td>5 kA</td> </tr> <tr> <td>Line/Line Nominal discharge current <i>C2 Category</i></td> <td>I<sub>n L/L</sub></td> <td>5 kA</td> </tr> <tr> <td>Line resistance (± 10%)</td> <td></td> <td>4.7 Ohm</td> </tr> </table>	Network		RS232, RS485	Nominal line voltage	Un	12 V	Max. DC operating voltage	Uc	15 Vdc	Max. frequency	f max.	3 MHz	Insertion loss		< 1 dB	Max. load current @25°C	IL	300 mA	Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I <sub>max</sub>	20 kA	Nominal discharge current <i>C2 Category</i>	I <sub>n</sub>	5 kA	Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i>	I <sub>n L/PE</sub>	5 kA	Protection mode(s)		Common/Differential mode	Protection Level <i>C3 (10/1000 μs), 300 applications@10 A, Y-Y (Line/Line)</i>	Up	30 V	Protection Level <i>C3 (10/1000 μs), 300 applications@10 A, X-C (Line/Earth)</i>	Up	30 V	Max. capacitance	C	< 50 pF	Impulse current <i>D1 (10/350 μs), 2 applications, X-C (Line/Earth)</i>	I <sub>imp</sub>	5 kA	Line/Line Nominal discharge current <i>C2 Category</i>	I <sub>n L/L</sub>	5 kA	Line resistance (± 10%)		4.7 Ohm
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