



CITEL

1-pair DIN rail plug-in Data surge protector

DLAWS1-12D3/R



- 1-pair Surge protection
- Pluggable protection module
- Optical fault indication
- Indirect shield connection
- Visual indicator in failsafe behaviour
- Indirect earthing
- Current circuit disconnection when module is unplugged
- Conforms to IEC 61643-21, VDE 0845-3-1 and UL497B



	<b>Electrical Characteristics</b>																																																																										
<p>G: 3-electrode gas tube Gb: 2-electrode gas tube PTC: Thermal resistor R: Resistor D: Clamping diode Vi: Indicator</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>&gt; 3 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>&lt; 1 dB</td> </tr> <tr> <td>Max. discharge current <i>max. withstand @ 8/20 μs by pole</i></td> <td>Imax</td> <td>20 kA</td> </tr> <tr> <td>Line inductance</td> <td></td> <td>No</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection level <i>@ In (8/20 μs)</i></td> <td>Up L/L</td> <td>30 V</td> </tr> <tr> <td>Impulse current <i>2 x 10/350 μs Test - D1 Category</i></td> <td>limp</td> <td>5 kA</td> </tr> <tr> <td>Nominal discharge current <i>C2 Category</i></td> <td>In</td> <td>5 kA</td> </tr> <tr> <td>Line/Line Nominal discharge current <i>C2 Category</i></td> <td>In L/L</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>In L/PE</td> <td>5 kA</td> </tr> <tr> <td>Line resistance</td> <td></td> <td>&lt; 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. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	20 kA	Line inductance		No	Protection mode(s)		Common/Differential mode	Protection level <i>@ In (8/20 μs)</i>	Up L/L	30 V	Impulse current <i>2 x 10/350 μs Test - D1 Category</i>	limp	5 kA	Nominal discharge current <i>C2 Category</i>	In	5 kA	Line/Line Nominal discharge current <i>C2 Category</i>	In L/L	5 kA	Nominal Discharge Current, X-C (Line/Earth) <i>8/20 μs Test x 10 - C2 Category</i>	In L/PE	5 kA	Line resistance		< 4.7 Ohm																															
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