



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



	Electrical Characteristics																																																																										
<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>> 3 MHz</td></tr> <tr><td>Insertion loss</td><td></td><td>< 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 (± 10 %)</td><td></td><td>non</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 (± 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. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	20 kA	Line inductance (± 10 %)		non	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 (± 10%)		4.7 Ohm																															
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