



CITEL

1-pair DIN rail plug-in Data surge protector

DLAWS1-24D3



- 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>4-20 mA</td></tr> <tr><td>Max. DC operating voltage</td><td>Uc</td><td>28 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 max. withstand @ 8/20 μs by pole</td><td>I_{max}</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_n (8/20 μs)</td><td>U_p L/L</td><td>40 V</td></tr> <tr><td>Impulse current 2 x 10/350 μs Test - D1 Category</td><td>I_{imp}</td><td>5 kA</td></tr> <tr><td>Nominal discharge current C2 Category</td><td>I_n</td><td>5 kA</td></tr> <tr><td>Line/Line Nominal discharge current C2 Category</td><td>I_n L/L</td><td>5 kA</td></tr> <tr><td>Nominal Discharge Current, X-C (Line/Earth) 8/20 μs Test x 10 - C2 Category</td><td>I_n L/PE</td><td>5 kA</td></tr> <tr><td>Line resistance</td><td></td><td>< 4.7 Ohm</td></tr> </table>		Network		4-20 mA	Max. DC operating voltage	Uc	28 Vdc	Max. frequency	f max.	> 3 MHz	Insertion loss		< 1 dB	Max. discharge current max. withstand @ 8/20 μs by pole	I _{max}	20 kA	Line inductance		No	Protection mode(s)		Common/Differential mode	Protection level @ I _n (8/20 μs)	U _p L/L	40 V	Impulse current 2 x 10/350 μs Test - D1 Category	I _{imp}	5 kA	Nominal discharge current C2 Category	I _n	5 kA	Line/Line Nominal discharge current C2 Category	I _n L/L	5 kA	Nominal Discharge Current, X-C (Line/Earth) 8/20 μs Test x 10 - C2 Category	I _n L/PE	5 kA	Line resistance		< 4.7 Ohm
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Nominal line voltage		U _n 24 V																																							
Mechanical Characteristics																																									
Disconnection		Specific version with line cut-off in case of removal plug-in module																																							
Technology		GDT+Clamping diode+PTC (thermal resistor) + Resistor																																							
SPD configuration		1-pair+shielded																																							
Connection to Network		By screw terminal: cross section 0.5-2.5mm ²																																							
Format		Plug-in DIN box																																							
Mounting		Symmetrical rail 35 mm (EN 60715)																																							
Housing material		Thermoplastic UL94 V-0																																							
Operating temperature		T _u -40/+85°C																																							
Protection rating		IP20																																							
Failsafe mode		Opening line - transmission cut-off - fault mode 2																																							
With line cut-off in case of removal plug-in module		Yes																																							
Disconnection indicator		Red light on																																							
Spare module(s)		DLAWS1M-24D3																																							
Dimensions		See diagram																																							
Standards																																									
Standards compliance		IEC 61643-21 / EN 61643-21 / UL497A																																							
Certification		UL Listed																																							
Part number																																									
6419031																																									

