



# CITEL

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

### DLA-48DBC/R



- High current data transmission
- Common mode and differential mode protection
- Data lines, including those isolated from Earth
- Compact DIN rail enclosure, high density protection
- Protection of shield wire
- Plug-out with line cut-off
- Location and test categories: D1, C2, C3
- IEC 61643-21 compliance



	<b>Electrical Characteristics</b>																																								
<p>G: 3-electrode gas tube Gb: 2-electrode gas tube R: Resistor D: Clamping diode</p>	<table border="1"> <tr> <td>Network</td> <td></td> <td>Fipway, WorldFIP, FieldBus-h2</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>48 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>53 Vdc</td> </tr> <tr> <td>Max. frequency</td> <td>f max.</td> <td>&gt; 20 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 max. withstand @ 8/20 μs by pole</td> <td>I<sub>max</sub></td> <td>20 kA</td> </tr> <tr> <td>Line inductance</td> <td></td> <td>No</td> </tr> <tr> <td>Protection level Following the test category C3 (IEC61643-21) - Line/Line</td> <td>Up</td> <td>75 V</td> </tr> <tr> <td>Max. capacitance</td> <td>C</td> <td>&lt; 50 pF</td> </tr> <tr> <td>Impulse current 2 x 10/350 μs Test - D1 Category</td> <td>I<sub>imp</sub></td> <td>5 kA</td> </tr> <tr> <td>Nominal discharge current C2 Category</td> <td>I<sub>n</sub></td> <td>5 kA</td> </tr> <tr> <td>Line resistance</td> <td></td> <td>&lt; 4.7 Ohm</td> </tr> </table>		Network		Fipway, WorldFIP, FieldBus-h2	Nominal line voltage	Un	48 V	Max. DC operating voltage	Uc	53 Vdc	Max. frequency	f max.	> 20 MHz	Insertion loss		< 1 dB	Max. load current @25°C	IL	300 mA	Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub>	20 kA	Line inductance		No	Protection level Following the test category C3 (IEC61643-21) - Line/Line	Up	75 V	Max. capacitance	C	< 50 pF	Impulse current 2 x 10/350 μs Test - D1 Category	I <sub>imp</sub>	5 kA	Nominal discharge current C2 Category	I <sub>n</sub>	5 kA	Line resistance		< 4.7 Ohm
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<b>Mechanical Characteristics</b>																																									
Technology		GDT+Clamping diode																																							
SPD configuration		1-pair+shielded																																							
Connection to Network		Spring terminal: cross section 0.5-2.5mm <sup>2</sup>																																							
Format		Plug-in DIN box																																							
Mounting		Symmetrical rail 35 mm (EN 60715)																																							
Housing material		Thermoplastic UL94 V-0																																							
Operating and storage temperature		-40/+85°C																																							
Protection rating		IP20																																							
Failsafe mode		Short-circuit																																							
Disconnection indicator		Transmission interrupt - default mode 2																																							
Spare module(s)		DLAM-48dBC																																							
Dimensions		See diagram																																							
Weight		0.065 kg																																							
<b>Standards</b>																																									
Standards compliance		IEC 61643-21 / EN 61643-21																																							
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