



- ✦ High speed 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
- ✦ Location and test categories: D1, C2, C3
- ✦ IEC 61643-21 compliance



	Electrical Characteristics																																											
<p>G: 3-electrode gas tube Gb: 2-electrode gas tube R: Resistor D: Clamping diode SG: Signal ground</p>	<table border="1"> <tr> <td>Network</td> <td></td> <td>CAN, Profibus DP, RS485</td> </tr> <tr> <td>Nominal line voltage</td> <td>Un</td> <td>6 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>Uc</td> <td>8 Vdc</td> </tr> <tr> <td>Cut-off frequency -3dB, 100 ohm system</td> <td>f max.</td> <td>> 80 MHz</td> </tr> <tr> <td>Cut-off frequency -1dB, 100 ohm system</td> <td>f max.</td> <td>> 45 MHz</td> </tr> <tr> <td>Max. load current @25°C</td> <td>IL</td> <td>750 mA</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>Nominal Discharge Current C2 (1.2/50μs / 8/20μs), 10 applications, X-X (Line/Line), X-SG (Line/Signal Ground)</td> <td>I_n</td> <td>10 kA</td> </tr> <tr> <td>Nominal Discharge Current C2 (1.2/50μs / 8/20μs), 10 applications, X-C (Line/Earth), SG-C (Signal Ground/Earth)</td> <td>I_n</td> <td>10 kA</td> </tr> <tr> <td>Protection Level C3 (10/1000μs), 300 applications@10 A, X-X (Line-Line), X-SG (Line-Signal Ground)</td> <td>Up</td> <td>30 V</td> </tr> <tr> <td>Protection Level C3 (10/1000μs), 300 applications@10 A, X-C (Line-Earth), SG-C (Signal Ground-Earth)</td> <td>Up</td> <td>650 V</td> </tr> <tr> <td>Impulse current D1 (10/350μs), 2 applications, X-C (Line/Earth), X-SG (Line/Signal Ground) and SG-C</td> <td>I_{imp}</td> <td>2.5 kA</td> </tr> <tr> <td>Line/Line Nominal discharge current C2 Category</td> <td>I_n L/L</td> <td>10 kA</td> </tr> <tr> <td>Line resistance (± 10%)</td> <td></td> <td>1.5 Ohm</td> </tr> </table>		Network		CAN, Profibus DP, RS485	Nominal line voltage	Un	6 V	Max. DC operating voltage	Uc	8 Vdc	Cut-off frequency -3dB, 100 ohm system	f max.	> 80 MHz	Cut-off frequency -1dB, 100 ohm system	f max.	> 45 MHz	Max. load current @25°C	IL	750 mA	Max. discharge current max. withstand @ 8/20 μs by pole	I _{max}	20 kA	Nominal Discharge Current C2 (1.2/50μs / 8/20μs), 10 applications, X-X (Line/Line), X-SG (Line/Signal Ground)	I _n	10 kA	Nominal Discharge Current C2 (1.2/50μs / 8/20μs), 10 applications, X-C (Line/Earth), SG-C (Signal Ground/Earth)	I _n	10 kA	Protection Level C3 (10/1000μs), 300 applications@10 A, X-X (Line-Line), X-SG (Line-Signal Ground)	Up	30 V	Protection Level C3 (10/1000μs), 300 applications@10 A, X-C (Line-Earth), SG-C (Signal Ground-Earth)	Up	650 V	Impulse current D1 (10/350μs), 2 applications, X-C (Line/Earth), X-SG (Line/Signal Ground) and SG-C	I _{imp}	2.5 kA	Line/Line Nominal discharge current C2 Category	I _n L/L	10 kA	Line resistance (± 10%)		1.5 Ohm
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	Mechanical Characteristics																																											
		Technology	GDT+TVS diode																																									
		SPD configuration	1-pair+shielded																																									
		Connection to Network	By spring terminal - max. cross section 2.5mm ² / AWG 13 (solid or stranded)																																									
		Format	DIN box																																									
		Mounting	Symmetrical rail 35 mm (EN 60715)																																									
		Housing material	Thermoplastic UL94 V-0																																									
		Operating temperature	Tu -40/+85°C																																									
		Ingress Protection rating	IP20 (NEMA 2)																																									
		Failsafe mode	Short-circuit																																									
		Disconnection indicator	Transmission interrupt - default mode 2																																									
		Dimensions	See diagram																																									
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