



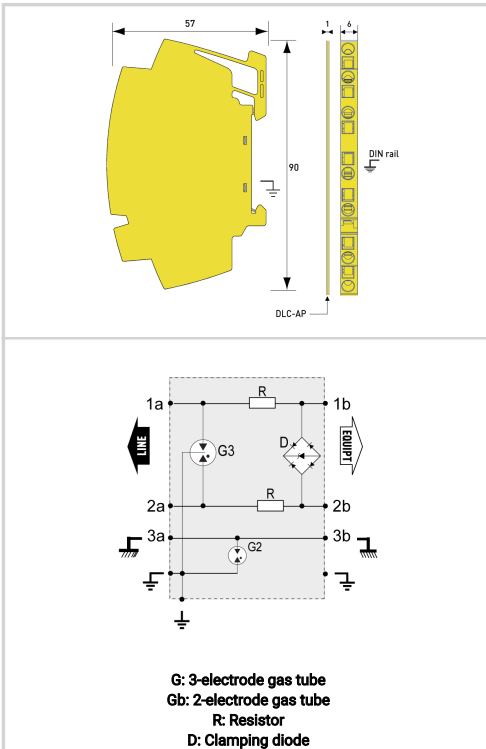
# CITEL

## 1-pair monobloc Telecom surge protector

### DLC-170



- 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   |                  |   |
|--|------------------|---|
| Network  |                  | RTC, ADSL2, VDSL2   |
| Nominal line voltage   | Un               | 150 V   |
| Max. DC operating voltage  | Uc               | 170 Vdc   |
| Max. frequency   | f max.           | > 10 MHz  |
| Cut-off frequency<br>-3dB, 100 ohm system                                      | f max.           | > 100 MHz   |
| Cut-off frequency<br>-1dB, 100 ohm system                                      | f max.           | > 45 MHz  |
| Insertion loss   |                  | < 1 dB  |
| Max. load current @25°C  | IL               | 300 mA  |
| Max. discharge current<br>max. withstand @ 8/20 μs by pole                     | I <sub>max</sub> | 10 kA   |
| Nominal Discharge Current, X-C (Line/Earth)<br>8/20 μs Test x 10 - C2 Category | In L/PE          | 5 kA  |
| Line inductance (± 10 %)   |                  | non   |
| Protection Level<br>C3 (10/1000 μs), 300 applications@10 A, Y-Y (Line/Line)    | Up               | 220 V   |
| Protection Level<br>C3 (10/1000 μs), 300 applications@10 A, X-C (Line/Earth)   | Up               | 220 V   |
| Impulse current<br>2 x 10/350 μs Test - D1 Category                            | I <sub>imp</sub> | 2.5 kA  |
| Line/Line Nominal discharge current<br>C2 Category                             | In L/L           | 5 kA  |
| Line resistance (± 10%)  |                  | 4.7 Ohm   |
| Mechanical Characteristics   |                  |   |
| Technology   |                  | GDT+TVS diode   |
| SPD configuration  |                  | 1-pair+shielded   |
| Connection to Network  |                  | By spring terminal - max. cross section 2.5mm <sup>2</sup> / 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   |
| Standards  |                  |   |
| Standards compliance   |                  | IEC 61643-21 / EN 61643-21 / UL497B   |
| Certification  |                  | UL 497B   |
| Part number  |                  |   |
| <b>641105</b>  |                  |   |

