



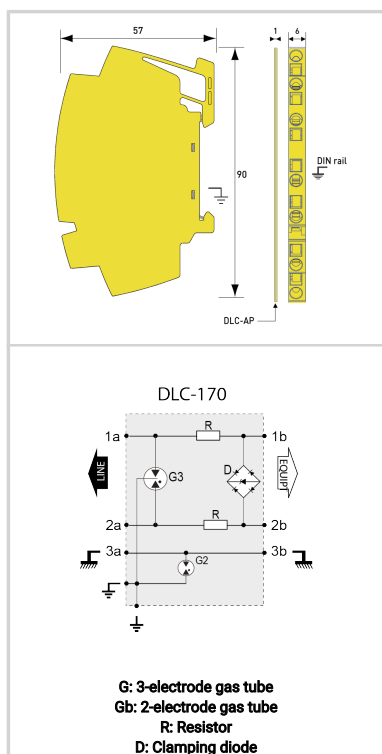
# CITEL

## 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 | I <sub>n</sub> 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, Y-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                             | I <sub>n</sub> 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 Listed                           |
| Environmental standards |  | EU RoHS                             |

#### Part number

**641105**

