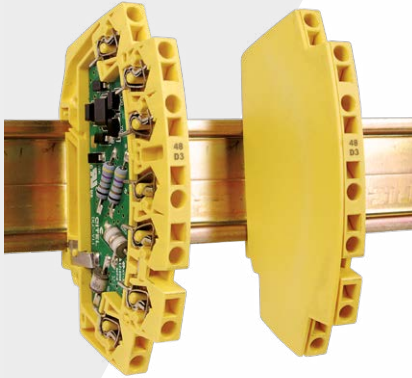


1-PAIR DIN RAIL SURGE PROTECTOR FOR DATALINE/TELECOM

DLC SERIES



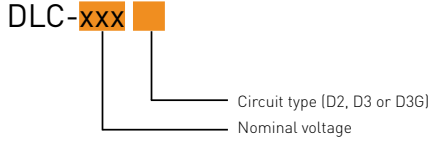
- Compact SPD for Datalines
- For «DIN» rail mounting
- All types of Telephone and Data lines
- Spring contact terminal
- Protection of shield wire
- IEC 61643-21 compliance
- UL approved



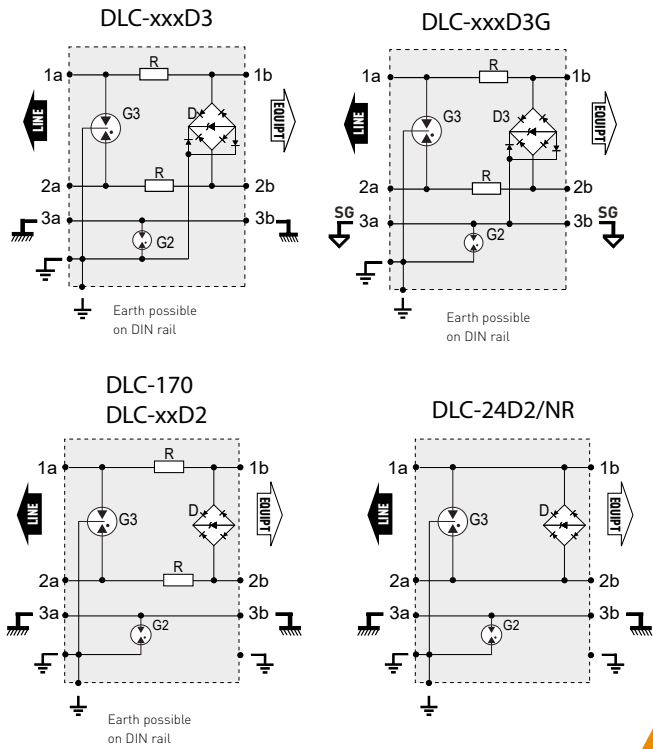
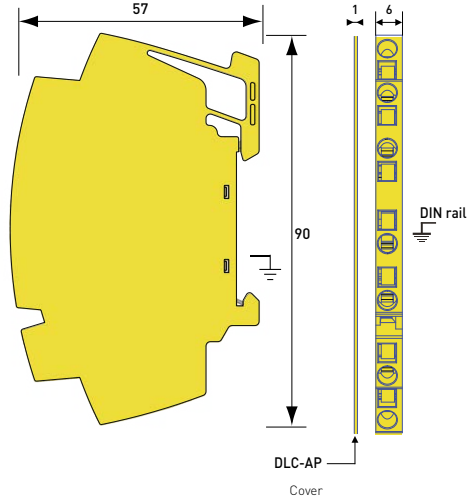
Characteristics

| CITEL Model | | DLC-170 | DLC-06D3 | DLC-12D3 | DLC-24D3 | DLC-48D3 | DLC-06D2 | DLC-24D2 |
|---|-------|--|------------------------|-------------------|-------------------|---|-----------------|-----------------|
| Description | | 1-pair monobloc Telecom/data surge protector | | | | | | |
| Network | | Telephone line, ADSL2, VDSL | RS422, MIC/T2, 10BaseT | RS232, RS485 | 4-20mA | ISDN-T0, Fipway, World-FIP, FieldBus-H2 | RS422 | 4-20 mA |
| SPD configuration | | 1-pair + shielded | 1-pair + shielded | 1-pair + shielded | 1-pair + shielded | 1-pair + shielded | 1-pair + shield | 1-pair + shield |
| Nominal line voltage | Un | 150 V | 6 V | 12 V | 24 V | 48 V | 6 V | 24 V |
| Max. DC operating voltage | Uc | 170 V | 8 V | 15 V | 28 V | 53 V | 8 V | 32 V |
| Max. Load current | IL | 300 mA | 300 mA | 300 mA | 300 mA | 300 mA | 750 mA | 750 mA |
| Max. frequency | f max | > 100 MHz | > 100 MHz | > 100 MHz | > 100 MHz | > 100 MHz | > 110 MHz | > 110 MHz |
| Insertion loss @ fmax | | < 3 dB | < 3 dB | < 3 dB | < 3dB | < 3 dB | < 3 dB | < 3 dB |
| Nominal discharge current | In | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA | 2 kA | 2 kA |
| 10 x 8/20µs Test - C2 Category | | | | | | | | |
| Max. discharge current | Imax | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 20 kA | 20 kA |
| max. withstand @ 8/20 µs by pole | | | | | | | | |
| Impulse current | Iimp | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2 kA | 2 kA |
| 2 x 10/350µs Test - D1 Category | | | | | | | | |
| Protection level (X-C) | Up | 220 V | 25 V | 30 V | 40 V | 70 V | 650 V | 650 V |
| 300 x 10/1000µs Test - C3 Category @10A | | | | | | | | |
| Protection level (X-X) | Up | 220 V | 25 V | 30 V | 40 V | 70 V | 30 V | 60 V |
| 300 x 10/1000µs Test - C3 Category @10A | | | | | | | | |
| Line resistance (+/-10%) | | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 4.7 ohms | 1.2 ohms | 1.2 ohms |
| Failsafe behaviour | | Short-circuit | Short-circuit | Short-circuit | Short-circuit | Short-circuit | Short-circuit | Short-circuit |
| SIL (Safety Integrity Level) | | - | SIL 3 | - | SIL 3 | - | - | SIL 3 |
| Mechanical characteristics | | | | | | | | |
| Dimensions | | see diagram | | | | | | |
| Format | | DIN box | | | | | | |
| Connection to Network | | by spring - max. cross section 1.5 mm ² | | | | | | |
| Disconnection indicator | | transmission interrupt -default mode 2 | | | | | | |
| Mounting | | Symmetrical rail DIN 35 mm (EN60715) | | | | | | |
| Operating temperature | | -40/+85°C | | | | | | |
| Protection rating | | IP20 | | | | | | |
| Housing material | | Thermoplastic UL94 V-0 | | | | | | |
| Standards | | | | | | | | |
| Compliance | | IEC 61643-21 / EN 61643-21 / UL497B | | | | | | |
| Part number | | | | | | | | |
| | | 641105 | 641101 | 641102 | 641103 | 641104 | 641181 | 641183 |

1-PAIR DIN RAIL SURGE PROTECTOR FOR DATALINE/TELECOM



| DLC-48D2 | DLC-06D3G | DLC-12D3G |
|---|---------------------------------|---------------------------------|
| ISDN-T0, Fipway, World-FIP, FieldBus*H2 | RS422 CAN, Profibus DP | RS232 RS485 |
| 1-pair + shield | 1-pair + shield + signal ground | 1-pair + shield + signal ground |
| 48 V | 6 V | 12 V |
| 53 V | 8 V | 15 V |
| 750 mA | 750 mA | 750 mA |
| > 110 MHz | > 100 MHz | > 100 MHz |
| < 3 dB | < 3 dB | < 3 dB |
| 5 kA | 2 kA | 2 kA |
| 10 kA | 20 kA | 20 kA |
| 2.5 kA | 2 kA | 2 kA |
| 70 V | 650 V | 650 V |
| 80 V | 30 V | 40 V |
| 1.2 ohms | 1.2 ohms | 1.2 ohms |
| Short-circuit | Short-circuit | Short-circuit |
| - | SIL 3 | - |
| 641184 | 641191 | 641192 |



G3: 3-electrode gas tube
G2: 2-electrode gas tube
R: Resistor
D: Clamping diode