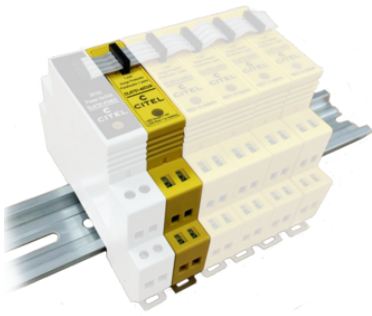




1-pair DIN rail plug-in Data surge protector

CITEL

DLATS1-48D3/R



- 1-pair data line/telecom surge protection
- Local and Remote signaling of SPD status
- DIN rail mounting, Screw connect status
- Plug-in module
- 1 monitoring module + SPD modules (up to 48) + bus
- Discharge current I_{max}/I_n : 20 kA / 5kA
- Complies with IEC/EN 61643-21 and UL497A



| | Electrical Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------------------------|---------|-------------------|--------------------|----------------------|---------|--------------------|---------------------------|--------------------|--|----------------|------------|--|----------------|-------------------|-----------------|-------------------------|-----------------------|---|--|-----------|-----------------|-----------------|----------|-----------------------------------|--------------------|------------------|--------------------------|---|-----------------------|-------|---|-------------------|------|---------------------------------------|---------------|---|---|-------------------------|--------------|--|-----------------|--------------|--|-----------------------------------|-----------------------|--|--|-----|--|------------|-------------|--|--------|----------|--|
| <p>G: 3-electrode gas tube Gb: 2-electrode gas tube PTC: Thermal resistor R: Resistor D: Clamping diode Vi: Indicator</p> | <table border="1"> <tr> <td>Network</td> <td></td> <td>RNIS-T0, 48 V line</td> </tr> <tr> <td>Nominal line voltage</td> <td>U_n</td> <td>48 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td>U_c</td> <td>53 Vdc</td> </tr> <tr> <td>Max. frequency</td> <td>f_{max}</td> <td>> 3 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>< 1 dB</td> </tr> <tr> <td>Max. load current @25°C</td> <td>I_L</td> <td>300 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>Line inductance</td> <td></td> <td>No</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection level @ I_n (8/20 μs)</td> <td>U_p L/L</td> <td>70 V</td> </tr> <tr> <td>Impulse current 2 x 10/350 μs Test - D1 Category</td> <td>I_{imp}</td> <td>5 kA</td> </tr> <tr> <td>Nominal discharge current C2 Category</td> <td>I_n</td> <td>5 kA</td> </tr> <tr> <td>Line/Line Nominal discharge current C2 Category</td> <td>I_n L/L</td> <td>5 kA</td> </tr> <tr> <td>Nominal Discharge Current, X-C (Line/Earth) 8/20 μs Test x 10 - C2 Category</td> <td>I_n L/PE</td> <td>5 kA</td> </tr> </table> | | Network | | RNIS-T0, 48 V line | Nominal line voltage | U_n | 48 V | Max. DC operating voltage | U_c | 53 Vdc | Max. frequency | f_{max} | > 3 MHz | Insertion loss | | < 1 dB | Max. load current @25°C | I_L | 300 mA | Max. discharge current max. withstand @ 8/20 μ s by pole | I_{max} | 20 kA | Line inductance | | No | Protection mode(s) | | Common/Differential mode | Protection level @ I_n (8/20 μ s) | U_p L/L | 70 V | Impulse current 2 x 10/350 μ s Test - D1 Category | I_{imp} | 5 kA | Nominal discharge current C2 Category | I_n | 5 kA | Line/Line Nominal discharge current C2 Category | I_n L/L | 5 kA | Nominal Discharge Current, X-C (Line/Earth) 8/20 μ s Test x 10 - C2 Category | I_n L/PE | 5 kA | | | | | | | | | | | | | |
| Network | | RNIS-T0, 48 V line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal line voltage | U_n | 48 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. DC operating voltage | U_c | 53 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. frequency | f_{max} | > 3 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insertion loss | | < 1 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. load current @25°C | I_L | 300 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. discharge current max. withstand @ 8/20 μ s by pole | I_{max} | 20 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line inductance | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection mode(s) | | Common/Differential mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection level @ I_n (8/20 μ s) | U_p L/L | 70 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impulse current 2 x 10/350 μ s Test - D1 Category | I_{imp} | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal discharge current C2 Category | I_n | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line/Line Nominal discharge current C2 Category | I_n L/L | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal Discharge Current, X-C (Line/Earth) 8/20 μ s Test x 10 - C2 Category | I_n L/PE | 5 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Connection ribbons available:</p> <table border="1"> <thead> <tr> <th>Nb of pole</th> <th>Ref. Ribbon</th> </tr> </thead> <tbody> <tr> <td>2 - 5</td> <td>R-BUS 5P (301134)</td> </tr> <tr> <td>6 - 10</td> <td>R-BUS 10P (301133)</td> </tr> <tr> <td>11 - 25</td> <td>R-BUS 25P (301135)</td> </tr> <tr> <td>26 - 49</td> <td>R-BUS 49P (301143)</td> </tr> </tbody> </table> | Nb of pole | Ref. Ribbon | 2 - 5 | R-BUS 5P (301134) | 6 - 10 | R-BUS 10P (301133) | 11 - 25 | R-BUS 25P (301135) | 26 - 49 | R-BUS 49P (301143) | Mechanical Characteristics <table border="1"> <tr> <td>Technology</td> <td colspan="2">GDT+Clamping diode+PTC (thermal resistor) + Resistor</td> </tr> <tr> <td>SPD configuration</td> <td colspan="2">1-pair+shielded</td> </tr> <tr> <td>Connection to Network</td> <td colspan="2">Spring terminal: cross section 0.5-2.5mm²</td> </tr> <tr> <td>Format</td> <td colspan="2">Plug-in DIN box</td> </tr> <tr> <td>Mounting</td> <td colspan="2">Symmetrical rail 35 mm (EN 60715)</td> </tr> <tr> <td>Housing material</td> <td colspan="2">Thermoplastic UL94 V-0</td> </tr> <tr> <td>Operating temperature</td> <td>T_u</td> <td>-40/+85°C</td> </tr> <tr> <td>Protection rating</td> <td colspan="2">IP20</td> </tr> <tr> <td>Failsafe mode</td> <td colspan="2">Transmission cut-off - fault mode 2 (short circuit)</td> </tr> <tr> <td>Disconnection indicator</td> <td colspan="2">Red light on</td> </tr> <tr> <td>Spare module(s)</td> <td colspan="2">DLATS1M-48D3</td> </tr> <tr> <td>Remote signaling of disconnection</td> <td colspan="2">Trough control module</td> </tr> <tr> <td>Remote signaling of disconnection via control module</td> <td colspan="2">Yes</td> </tr> <tr> <td>Dimensions</td> <td colspan="2">See diagram</td> </tr> <tr> <td>Weight</td> <td colspan="2">0.066 kg</td> </tr> </table> | | Technology | GDT+Clamping diode+PTC (thermal resistor) + Resistor | | SPD configuration | 1-pair+shielded | | Connection to Network | Spring terminal: cross section 0.5-2.5mm ² | | Format | Plug-in DIN box | | Mounting | Symmetrical rail 35 mm (EN 60715) | | Housing material | Thermoplastic UL94 V-0 | | Operating temperature | T_u | -40/+85°C | Protection rating | IP20 | | Failsafe mode | Transmission cut-off - fault mode 2 (short circuit) | | Disconnection indicator | Red light on | | Spare module(s) | DLATS1M-48D3 | | Remote signaling of disconnection | Trough control module | | Remote signaling of disconnection via control module | Yes | | Dimensions | See diagram | | Weight | 0.066 kg | |
| Nb of pole | Ref. Ribbon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 - 5 | R-BUS 5P (301134) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 - 10 | R-BUS 10P (301133) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 - 25 | R-BUS 25P (301135) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 - 49 | R-BUS 49P (301143) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technology | GDT+Clamping diode+PTC (thermal resistor) + Resistor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPD configuration | 1-pair+shielded | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection to Network | Spring terminal: cross section 0.5-2.5mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format | Plug-in DIN box | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mounting | Symmetrical rail 35 mm (EN 60715) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing material | Thermoplastic UL94 V-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating temperature | T_u | -40/+85°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection rating | IP20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Failsafe mode | Transmission cut-off - fault mode 2 (short circuit) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Disconnection indicator | Red light on | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spare module(s) | DLATS1M-48D3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remote signaling of disconnection | Trough control module | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remote signaling of disconnection via control module | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | See diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 0.066 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standards compliance | | IEC 61643-21 / EN 61643-21 / UL497A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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