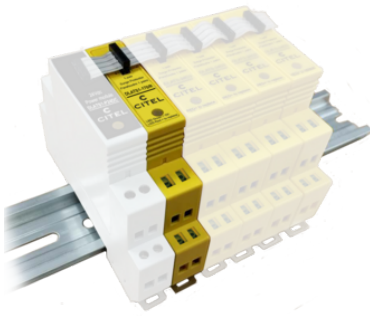




# CITEL

## 1-pair DIN rail plug-in Data surge protector

### DLATS1-170/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



|                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Electrical Characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
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| <p>Connection ribbons available:</p> <table border="1" data-bbox="199 963 438 1075"> <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) | <table border="1"> <tbody> <tr> <td>Network</td> <td></td> <td>RTC, ADSL2, VDSL2</td> </tr> <tr> <td>Nominal line voltage</td> <td><math>U_n</math></td> <td>150 V</td> </tr> <tr> <td>Max. DC operating voltage</td> <td><math>U_c</math></td> <td>170 Vdc</td> </tr> <tr> <td>Max. frequency</td> <td>f max.</td> <td>10 MHz</td> </tr> <tr> <td>Insertion loss</td> <td></td> <td>&lt; 1 dB</td> </tr> <tr> <td>Max. load current @25°C</td> <td><math>I_L</math></td> <td>300 mA</td> </tr> <tr> <td>Max. discharge current max. withstand @ 8/20 μs by pole</td> <td><math>I_{max}</math></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 Following the test category C3 (IEC61643-21) - Line/Line</td> <td><math>U_p</math></td> <td>220 V</td> </tr> <tr> <td>Impulse current 2 x 10/350 μs Test - D1 Category</td> <td><math>I_{imp}</math></td> <td>5 kA</td> </tr> <tr> <td>Nominal discharge current C2 Category</td> <td><math>I_n</math></td> <td>5 kA</td> </tr> <tr> <td>Line/Line Nominal discharge current C2 Category</td> <td><math>I_n</math> 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><math>I_n</math> L/PE</td> <td>5 kA</td> </tr> </tbody> </table> |        | Network |                 | RTC, ADSL2, VDSL2 | Nominal line voltage | $U_n$                             | 150 V            | Max. DC operating voltage | $U_c$                  | 170 Vdc               | Max. frequency | f max.    | 10 MHz            | Insertion loss |      | < 1 dB        | Max. load current @25°C | $I_L$                                               | 300 mA                  | Max. discharge current max. withstand @ 8/20 μs by pole | $I_{max}$    | 20 kA           | Line inductance |             | No                                | Protection mode(s) |                       | Common/Differential mode                             | Protection level Following the test category C3 (IEC61643-21) - Line/Line | $U_p$ | 220 V      | Impulse current 2 x 10/350 μs 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 μs Test x 10 - C2 Category | $I_n$ L/PE | 5 kA |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Network                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RTC, ADSL2, VDSL2                                     |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Nominal line voltage                                                                                                                                                                                                                                                                                                                                                                                            | $U_n$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 150 V                                                 |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Max. DC operating voltage                                                                                                                                                                                                                                                                                                                                                                                       | $U_c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 170 Vdc                                               |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Max. frequency                                                                                                                                                                                                                                                                                                                                                                                                  | f max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 MHz                                                |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Insertion loss                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | < 1 dB                                                |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Max. load current @25°C                                                                                                                                                                                                                                                                                                                                                                                         | $I_L$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 300 mA                                                |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Max. discharge current max. withstand @ 8/20 μs by pole                                                                                                                                                                                                                                                                                                                                                         | $I_{max}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20 kA                                                 |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Line inductance                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                    |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Protection mode(s)                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Common/Differential mode                              |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Protection level Following the test category C3 (IEC61643-21) - Line/Line                                                                                                                                                                                                                                                                                                                                       | $U_p$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 220 V                                                 |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Impulse current 2 x 10/350 μs 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 μs Test x 10 - C2 Category                                                                                                                                                                                                                                                                                                                                     | $I_n$ L/PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5 kA                                                  |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Mechanical Characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                 | <table border="1"> <tbody> <tr> <td>Technology</td> <td></td> <td>GDT+Clamping diode+PTC (thermal resistor) + Resistor</td> </tr> <tr> <td>SPD configuration</td> <td></td> <td>1-pair+shielded</td> </tr> <tr> <td>Connection to Network</td> <td></td> <td>Spring terminal: cross section 0.5-2.5mm<sup>2</sup></td> </tr> <tr> <td>Format</td> <td></td> <td>Plug-in DIN box</td> </tr> <tr> <td>Mounting</td> <td></td> <td>Symmetrical rail 35 mm (EN 60715)</td> </tr> <tr> <td>Housing material</td> <td></td> <td>Thermoplastic UL94 V-0</td> </tr> <tr> <td>Operating temperature</td> <td><math>T_u</math></td> <td>-40/+85°C</td> </tr> <tr> <td>Protection rating</td> <td></td> <td>IP20</td> </tr> <tr> <td>Failsafe mode</td> <td></td> <td>Transmission cut-off - fault mode 2 (short circuit)</td> </tr> <tr> <td>Disconnection indicator</td> <td></td> <td>Red light on</td> </tr> <tr> <td>Spare module(s)</td> <td></td> <td>DLATS1M-170</td> </tr> <tr> <td>Remote signaling of disconnection</td> <td></td> <td>Trough control module</td> </tr> <tr> <td>Remote signaling of disconnection via control module</td> <td></td> <td>Yes</td> </tr> <tr> <td>Dimensions</td> <td></td> <td>See diagram</td> </tr> <tr> <td>Weight</td> <td></td> <td>0.066 kg</td> </tr> </tbody> </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 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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-170 | Remote signaling of disconnection |                    | Trough control module | Remote signaling of disconnection via control module |                                                                           | Yes   | Dimensions |                                                  | See diagram | Weight |                                       | 0.066 kg |      |                                                 |           |      |                                                                             |            |      |
| Technology                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GDT+Clamping diode+PTC (thermal resistor) + Resistor  |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| SPD configuration                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1-pair+shielded                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Connection to Network                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Spring terminal: cross section 0.5-2.5mm <sup>2</sup> |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| 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-170                                           |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Remote signaling of disconnection                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Trough control module                                 |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Remote signaling of disconnection via control module                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                   |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | See diagram                                           |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
| Weight                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.066 kg                                              |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Standards</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                 | Standards compliance IEC 61643-21 / EN 61643-21 / UL497A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Part number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       |            |                   |                                                      |                    |         |                    |                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |         |                 |                   |                      |                                   |                  |                           |                        |                       |                |           |                   |                |      |               |                         |                                                     |                         |                                                         |              |                 |                 |             |                                   |                    |                       |                                                      |                                                                           |       |            |                                                  |             |        |                                       |          |      |                                                 |           |      |                                                                             |            |      |
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