



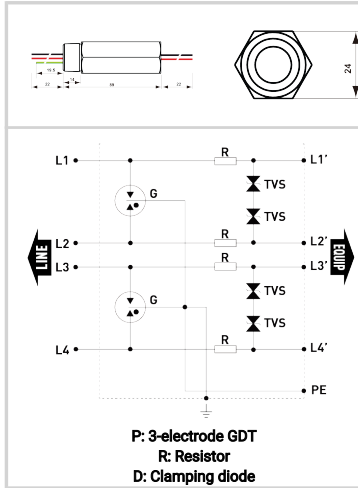
# CITEL

**Intrinsically safe dataline Surge Protector for hazardous area mounting.**

## TSP-S4-48-NH-EX/C



• Intrinsically safe and flameproof follow GB standards • Max discharge current  $I_{max}$ : 20kA • EX certification (CCC) approved • Complies with IEC 61643-21, GB/T 18802.21, GB/T 3836.1, GB/T 3836.4



| Electrical Characteristics                                                        |                  |                                                       |  |
|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------|--|
| SPD type                                                                          | IEC              | 2+3                                                   |  |
| Network                                                                           |                  | RS232, RS485, 4-20mA                                  |  |
| Nominal line voltage                                                              | Un               | 24 Vdc                                                |  |
| Max. DC operating voltage                                                         | Uc               | 48 Vdc                                                |  |
| Max. frequency                                                                    | f max.           | 2 MHz                                                 |  |
| Insertion loss                                                                    |                  | < 0,5 dB                                              |  |
| Max. load current @25°C                                                           | IL               | 500 mA                                                |  |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                           | In               | 10 kAL-PE                                             |  |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole                   | I <sub>max</sub> | 20 kA                                                 |  |
| Impulse current by pole<br>max. withstand 10/350 $\mu$ s by pole                  | I <sub>imp</sub> | 5 kAL-PE                                              |  |
| Line inductance ( $\pm 10\%$ )                                                    |                  | non                                                   |  |
| Protection mode(s)                                                                |                  | Common/Differential mode                              |  |
| Protection Level<br>C3 (10/1000 $\mu$ s), 300 applications@10 A, Y-Y (Line/Line)  | Up               | 150 V                                                 |  |
| Protection Level<br>C3 (10/1000 $\mu$ s), 300 applications@10 A, Y-C (Line/Earth) | Up               | 600 V                                                 |  |
| Protection level CM/DM<br>@ In (8/20 $\mu$ s)                                     | Up mc /md        | 600 V/150 V                                           |  |
| Line/Line Nominal discharge current<br>C2 Category                                | In L/L           | 10 kA                                                 |  |
| Mechanical Characteristics                                                        |                  |                                                       |  |
| IP degree                                                                         |                  | IP67                                                  |  |
| Technology                                                                        |                  | GDT+TVS diode                                         |  |
| SPD configuration                                                                 |                  | 4 wires                                               |  |
| Connection to Network                                                             |                  | Built-in AWG 16# wires L is 22mm, PE is 19.5mm        |  |
| Format                                                                            |                  | Mounting with threaded interface                      |  |
| Mounting                                                                          |                  | 1/2"NPT thread interface                              |  |
| Housing material                                                                  |                  | 316 stainless steel                                   |  |
| Operating temperature                                                             | Tu               | -40/+85°C                                             |  |
| Dimensions                                                                        |                  | See diagram                                           |  |
| Standards                                                                         |                  |                                                       |  |
| Standards compliance                                                              |                  | IEC 61643-21, GB/T 18802.21, GB/T 3836.1, GB/T 3836.4 |  |
| Certification                                                                     |                  | CCC                                                   |  |
| Part number                                                                       |                  |                                                       |  |
| 86220624119                                                                       |                  |                                                       |  |

