



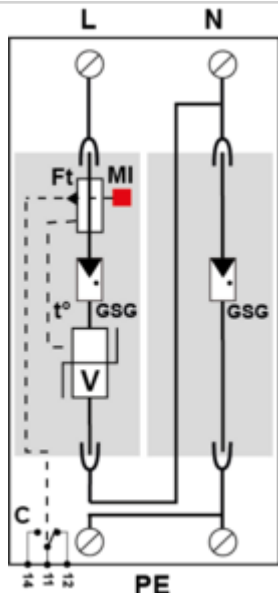
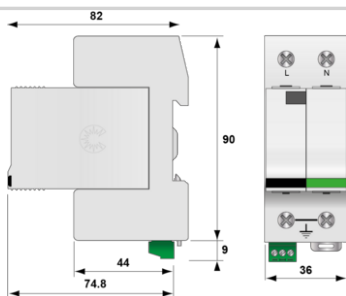
# CITEL

## Type 1+2+3 AC surge protector - Single phase

### DS132VGS-230/G



- Discover our latest innovation : the [DAC1-13VGS-11-275](#)
- Type 1 + 2 + 3 AC surge protector
- In : 20 kA
- Iimp total : 25 kA on 10/350µs impulse
- Pluggable module
- Optimized to TOV
- Remote signaling
- EN 61643-11, IEC 61643-11 and UL 1449 ed.4 compliance



#### Electrical Characteristics

|                                                                                                          |                                 |
|----------------------------------------------------------------------------------------------------------|---------------------------------|
| SPD type                                                                                                 | 1+2+3                           |
| Network                                                                                                  | 230 V single-phase              |
| AC system                                                                                                | TT-TN                           |
| Nominal line voltage                                                                                     | Un 230 Vac                      |
| Max. AC operating voltage                                                                                | Uc 275 Vac                      |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT 335 Vac withstand            |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT 440 Vac withstand            |
| Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection                  | UT 1200 V/300A/200 ms withstand |
| Residual Current                                                                                         | Ipe None                        |
| Leakage current to Ground                                                                                | If None                         |
| Follow current                                                                                           | I <sub>f</sub> None             |
| Nominal discharge current 15 x 8/20 µs impulses                                                          | I <sub>n</sub> 20 kA            |
| Max. discharge current max. withstand @ 8/20 µs by pole                                                  | I <sub>max</sub> 50 kA          |
| Impulse current by pole max. withstand 10/350µs by pole                                                  | I <sub>imp</sub> 12.5 kA        |
| Total lightning current max. total withstand @ 10/350µs                                                  | I <sub>total</sub> 25 kA        |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs                         | U <sub>oc</sub> 20 kV           |
| Withstand on overvoltages IEEE C62.41.1                                                                  | 20 kV                           |
| Specific energy by pole max. withstand 10/350 µs                                                         | W/R 40 kJ/ohm                   |
| Connection mode(s)                                                                                       | L/N and N/PE                    |
| Protection mode(s)                                                                                       | Common/Differential mode        |
| Residual voltage @ I <sub>n</sub> (8/20 µs)                                                              | Up-in 0.6 kV                    |
| Protection level L/N @ I <sub>n</sub> (8/20µs)                                                           | Up L/N 1.25 kV                  |
| Protection level N/PE @ I <sub>n</sub> (8/20µs)                                                          | Up N/PE 1.5 kV                  |
| Admissible short-circuit current                                                                         | I <sub>sc</sub> 25 000 A        |

#### Mechanical Characteristics

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Technology                        | VG Technology (MOV+GSG)                            |
| SPD configuration                 | Single phase                                       |
| Connection to Network             | By screw terminals: 2.5-25mm <sup>2</sup> / by bus |
| Format                            | Plug-in modular box                                |
| Mounting                          | Symmetrical rail 35 mm (EN 60715)                  |
| Housing material                  | Thermoplastic UL94 V-0                             |
| Operating temperature             | T <sub>u</sub> -40/+85°C                           |
| Protection rating                 | IP20                                               |
| Failsafe mode                     | Disconnection from AC network                      |
| Disconnection indicator           | 1 mechanical indicator by pole                     |
| Spare module(s)                   | DSM130VG-230 + DSM130VG-230/G                      |
| Remote signaling of disconnection | Output on changeover contact                       |
| Dimensions                        | See diagram                                        |
| Weight                            | 0.246 kg                                           |

#### Disconnectors

|                                   |                       |
|-----------------------------------|-----------------------|
| Thermal disconnector              | Internal              |
| Installation ground fault breaker | Type 'S' or delayed   |
| Back-up protection device         | Fuses Type gG - 125 A |

#### Standards

|                      |                                          |
|----------------------|------------------------------------------|
| Standards compliance | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        |                                          |

**DS132VGS-230/G**

Part number

571572