



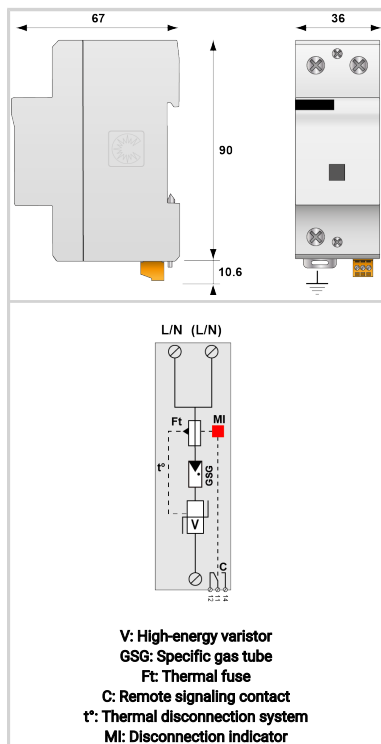
# CITEL



## Type 1+2 AC surge protector - 1-pole

### DS250VG-120

- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance



| Electrical Characteristics                                                                                         |        |                                                  |
|--------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------|
| SPD type                                                                                                           | IEC    | 1+2+3                                            |
| Network                                                                                                            |        | 120/208 V                                        |
| Nominal line voltage                                                                                               | Un     | 120 Vac                                          |
| Max. AC operating voltage                                                                                          | Uc     | 150 Vac                                          |
| Max. load current<br><i>if series connection</i>                                                                   | IL     | 100 A                                            |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT     | 180 Vac withstand                                |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT     | 230 Vac withstand                                |
| Residual Current<br><i>Leakage current to Ground</i>                                                               | Ipe    | None                                             |
| Follow current                                                                                                     | If     | None                                             |
| Nominal discharge current<br><i>15 x 8/20 µs impulses</i>                                                          | In     | 30 kA                                            |
| Max. discharge current<br><i>max. withstand @ 8/20 µs by pole</i>                                                  | Imax   | 70 kA                                            |
| Impulse current by pole<br><i>max. withstand 10/350µs by pole</i>                                                  | Iimp   | 25 kA                                            |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50µs - 8/20µs</i>                         | Uoc    | 20 kV                                            |
| Withstand on overvoltages IEEE C62.41.1                                                                            |        | 20 kV                                            |
| Specific energy by pole<br><i>max. withstand 10/350 µs</i>                                                         | W/R    | 156 kJ/ohm                                       |
| Connection mode(s)                                                                                                 |        | L/N or L/PE                                      |
| Protection mode(s)                                                                                                 |        | Common Mode or Differential Mode                 |
| Protection level<br><i>@ In (8/20µs) and @ 6 kV (1,2/50 µs)</i>                                                    | Up     | 1 kV                                             |
| Residual voltage<br><i>@ In (8/20 µs)</i>                                                                          | Up-in  | 0.7 kV                                           |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20µs)</i>                                                                 | Up-5kA | 0.4 kV                                           |
| Admissible short-circuit current                                                                                   | Iscrr  | 50 000 A                                         |
| Mechanical Characteristics                                                                                         |        |                                                  |
| Technology                                                                                                         |        | VG Technology (MOV+GSG)                          |
| SPD configuration                                                                                                  |        | 2-poles                                          |
| Connection to Network                                                                                              |        | By screw terminals: 6-35mm <sup>2</sup> / by bus |
| Format                                                                                                             |        | 1-pole modular box                               |
| Mounting                                                                                                           |        | Symmetrical rail 35 mm (EN 60715)                |
| Housing material                                                                                                   |        | Thermoplastic UL94 V-0                           |
| Operating temperature                                                                                              | Tu     | -40/+85°C                                        |
| Protection rating                                                                                                  |        | IP20                                             |
| Failsafe mode                                                                                                      |        | Disconnection from AC network                    |
| Disconnection indicator                                                                                            |        | 1 mechanical indicator                           |
| Remote signaling of disconnection                                                                                  |        | Output on changeover contact                     |
| Dimensions                                                                                                         |        | See diagram                                      |
| Weight                                                                                                             |        | 0.213 kg                                         |
| Disconnectors                                                                                                      |        |                                                  |
| Thermal disconnector                                                                                               |        | Internal                                         |
| Installation ground fault breaker                                                                                  |        | Type 'S' or delayed                              |
| Back-up protection device                                                                                          |        | CITEL series SFD1-25S - Fuses type gG - 315 A    |
| Standards                                                                                                          |        |                                                  |
| Standards compliance                                                                                               |        | IEC 61643-11 / EN 61643-11 / UL1449 ed.5         |
| Certification                                                                                                      |        | UL                                               |



# CITEL

*Type 1+2 AC surge protector - 1-pole*

---

**DS250VG-120**

**Part number**

**2787**

