



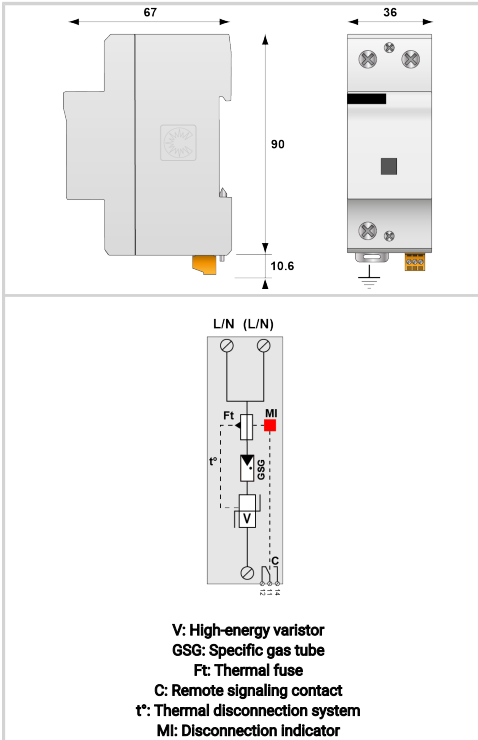
# CITEL



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

### DS250VG-400

- 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  |        | 230/400 V  |
| Nominal line voltage   | Un     | 400 Vac  |
| Max. AC operating voltage  | Uc     | 440 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     | 580 Vac withstand                                |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT     | 770 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     | 1.5 kV   |
| Residual voltage<br><i>@ In (8/20 µs)</i>  | Up-in  | 1.1 kV   |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20µs)</i>   | Up-5kA | 1 kV   |
| Admissible short-circuit current   | Iscrr  | 50 000 A   |
| Mechanical Characteristics   |        |  |
| Technology   |        | VG Technology (MOV+GSG)                          |
| SPD configuration  |        | Single phase                                     |
| 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   |        | 0.303 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  |        |  |



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Part number

2578

