



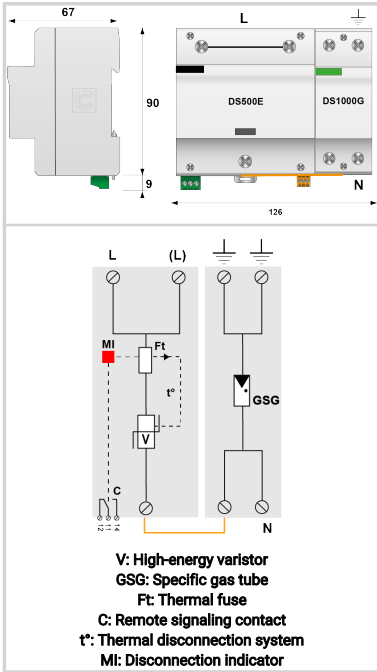
# CITEL



## Type 1+2 AC surge protector single-phase

### DS502E-230/G

- Type 1 + 2 multipolar AC surge protector
- Iimp total : 100 kA (10/350µs impulse)
- Imax : 200 kA (8/20µs impulse)
- Internal disconnections, status indicator and remote signaling
- Conforme NF EN 61643-11, IEC 61643-11, UL1449 ed.5



| Electrical Characteristics   |         |  |
|--|---------|--|
| SPD type   | IEC     | 1+2  |
| Network  |         | 230 V single-phase                               |
| AC system  |         | TT-TN  |
| Nominal line voltage   | Un      | 230 Vac  |
| Max. AC operating voltage  | Uc      | 255 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      | 335 Vac withstand                                |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT      | 440 Vac disconnection                            |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT      | 1200 V/300A/200 ms withstand                     |
| Follow current   | If      | None   |
| Nominal discharge current<br><i>15 x 8/20 µs impulses</i>  | In      | 50 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 µs by pole</i>  | Imax    | 200 kA   |
| Impulse current by pole<br><i>max. withstand 10/350µs by pole</i>  | Iimp    | 50 kA  |
| Total lightning current<br><i>max. total withstand @ 10/350µs</i>  | Itotal  | 100 kA   |
| Specific energy by pole<br><i>max. withstand 10/350 µs</i>   | W/R     | 156 kJ/ohm                                       |
| Connection mode(s)   |         | L/N and N/PE                                     |
| Protection mode(s)   |         | Common/Differential mode                         |
| Protection level L/N<br><i>@ In (8/20µs)</i>   | Up L/N  | 1.8 kV   |
| Protection level N/PE<br><i>@ In (8/20µs)</i>  | Up N/PE | 1.5 kV   |
| Admissible short-circuit current   | Iscrr   | 50 000 A   |
| Mechanical Characteristics   |         |  |
| Technology   |         | MOV  |
| SPD configuration  |         | Single phase                                     |
| Connection to Network  |         | By screw terminals: 6-35mm <sup>2</sup> / by bus |
| Format   |         | 1-pole modular box assembled                     |
| 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 by pole                   |
| Remote signaling of disconnection  |         | Output on changeover contact                     |
| Dimensions   |         | See diagram                                      |
| Weight   |         | 1.02 kg  |
| Disconnectors  |         |  |
| Thermal disconnector   |         | Internal   |
| Installation ground fault breaker  |         | Type 'S' or delayed                              |
| Back-up protection device  |         | Fuses Type gG - 500 A                            |
| Standards  |         |  |
| Standards compliance   |         | IEC 61643-11 / EN 61643-11 / UL1449 ed.5         |
| Certification  |         |  |
| Part number  |         |  |
| <b>5022301</b>   |         |  |

