



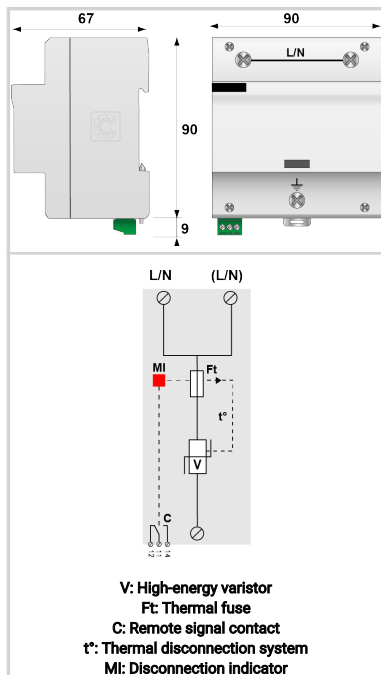
# CITEL



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

### DS500E-230

- Type 1+2 unipolar AC surge protector
- $I_{imp}$  : 50 kA on 10/350 $\mu$ s impulse
- $I_{max}$  : 200 kA on 8/20 $\mu$ s impulse
- Internal disconnections, status indicator and remote signaling
- IEC 61643-11 and EN 61643-11



| Electrical Characteristics                                                                                         |                   |                                         |
|--------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------|
| SPD type                                                                                                           | IEC               | 1+2                                     |
| Network                                                                                                            |                   | 230/400V                                |
| 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                   |
| Residual Current<br><i>Leakage current to Ground</i>                                                               | Ipe               | < 3 mA                                  |
| Follow current                                                                                                     | If                | None                                    |
| Nominal discharge current<br><i>15 x 8/20 <math>\mu</math>s impulses</i>                                           | In                | 50 kA                                   |
| Max. discharge current<br><i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>                                   | I <sub>max</sub>  | 200 kA                                  |
| Impulse current by pole<br><i>max. withstand 10/350<math>\mu</math>s by pole</i>                                   | I <sub>imp</sub>  | 50 kA                                   |
| Specific energy by pole<br><i>max. withstand 10/350 <math>\mu</math>s</i>                                          | W/R               | 625 kJ/ohm                              |
| Connection mode(s)                                                                                                 |                   | L/N and L/PE                            |
| Protection level<br><i>@ In (8/20<math>\mu</math>s)</i>                                                            | Up                | 1.8 kV                                  |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20<math>\mu</math>s)</i>                                                  | Up-5kA            | 0.8 kV                                  |
| Admissible short-circuit current                                                                                   | Isc <sub>cr</sub> | 50 000 A                                |
| Mechanical Characteristics                                                                                         |                   |                                         |
| Technology                                                                                                         |                   | MOV                                     |
| Connection to Network                                                                                              |                   | By screw terminals: 6-35mm <sup>2</sup> |
| 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                             |
| 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              |
| Certification                                                                                                      |                   |                                         |
| Part number                                                                                                        |                   |                                         |
| 500230                                                                                                             |                   |                                         |

