



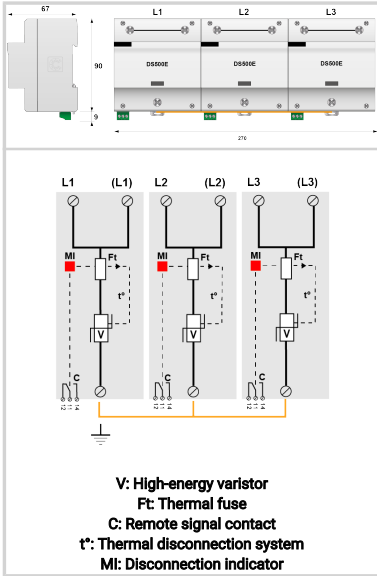
# CITEL

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

### DS503E-400



- › Type 1 + 2 unipolar surge protector
- › Iimp total: 150 kA on 10/350µs impulse
- › Imax : 200 kA on 8/20µs impulse
- › Internal disconnections, status indicators
- › Remote signaling
- › IEC 61643-11, EN 61643-11 and UL1449 ed.5 compliance



| Electrical Characteristics   |                    |  |
|--|--------------------|--|
| SPD type   | IEC                | 1+2  |
| Network  |                    | 230/400 V  |
| AC system  |                    | IT   |
| 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 disconnection                            |
| 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>  | I <sub>max</sub>   | 200 kA   |
| Impulse current by pole<br><i>max. withstand 10/350µs by pole</i>  | I <sub>imp</sub>   | 50 kA  |
| Total lightning current<br><i>max. total withstand @ 10/350µs</i>  | I <sub>total</sub> | 150 kA   |
| Specific energy by pole<br><i>max. withstand 10/350 µs</i>   | W/R                | 156 kJ/ohm                                       |
| Connection mode(s)   |                    | L/PE   |
| Protection mode(s)   |                    | Common mode                                      |
| Protection level L/PE<br><i>@ In (8/20µs)</i>  | Up L/PE            | 2.2 kV   |
| Admissible short-circuit current   | I <sub>sc</sub>    | 50 000 A   |
| Mechanical Characteristics   |                    |  |
| Technology   |                    | MOV  |
| SPD configuration  |                    | 3-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   |                    | 2.214 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>3965</b>  |                    |  |

