



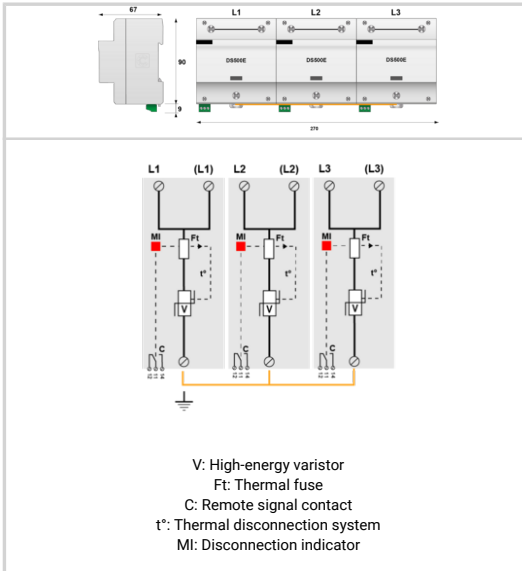
# Type 1+2 AC surge protector 3-phase

# CITEL

## 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   | 1+2  |
| Network  | 230/400 V 3-phase                                |
| 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  |  |
| 3965   |  |

