



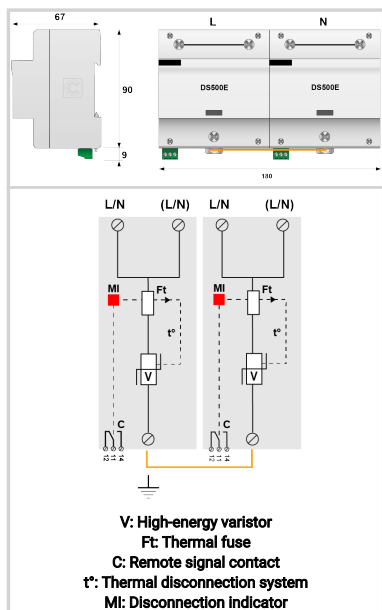
# CITEL



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

### DS502E-400

- 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                                                                                                  |         | 230/400V              |
| AC system                                                                                                |         | IT                    |
| Nominal line voltage                                                                                     | Un      | 400 Vac               |
| Max. AC operating voltage                                                                                | Uc      | 440 Vac               |
| Max. load current                                                                                        |         |                       |
| if series connection                                                                                     | IL      | 100 A                 |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT      | 580 Vac withstand     |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT      | 770 Vac disconnection |
| Follow current                                                                                           | If      | None                  |
| Nominal discharge current 15 x 8/20 µs impulses                                                          | In      | 50 kA                 |
| Max. discharge current max. withstand @ 8/20 µs by pole                                                  | Imax    | 200 kA                |
| Impulse current by pole max. withstand 10/350µs by pole                                                  | Iimp    | 50 kA                 |
| Total lightning current max. total withstand @ 10/350µs                                                  | Itotal  | 100 kA                |
| Specific energy by pole max. withstand 10/350 µs                                                         | W/R     | 156 kJ/ohm            |
| Connection mode(s)                                                                                       |         | L/PE and N/PE         |
| Protection mode(s)                                                                                       |         | Common mode           |
| Protection level N/PE @ In (8/20µs)                                                                      | Up N/PE | 2.2 kV                |
| Protection level L/PE @ In (8/20µs)                                                                      | Up L/PE | 2.2 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                                      |

#### 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

64028

