



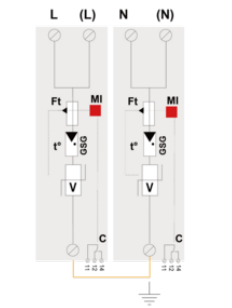
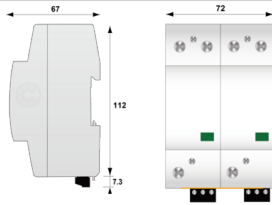
## Type 1+2+3 AC surge protector - Single phase

# CITEL

## DACN1-25VGS-20-440



- Type 1 + 2+3 AC surge protector
- VG Technology
- In: 25 kA
- Iimp: 25 kA on 10/350µs impulse
- No leakage current
- Unpluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 complied



V: High-energy varistor  
 GSG: Specific gas tube  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

### Electrical Characteristics

|  |                    |                       |
|--|--------------------|-----------------------|
| SPD type   |                    | 1+2+3                 |
| Network  |                    | 230/400 V             |
| Max. AC operating voltage  | Uc                 | 440 Vac               |
| Max. load current @25°C  | 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 |
| Residual Current Leakage current to Ground   | Ipe                | None                  |
| Follow current   | If                 | None                  |
| Nominal discharge current 15 x 8/20 µs impulses  | In                 | 25 kA                 |
| Max. discharge current max. withstand @ 8/20 µs by pole  | I <sub>max</sub>   | 70 kA                 |
| Impulse current by pole max. withstand 10/350µs by pole  | I <sub>imp</sub>   | 25 kA                 |
| Total lightning current max. total withstand @ 10/350µs  | I <sub>total</sub> | 50 kA                 |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs                         | Uoc                | 6 kV                  |
| Specific energy by pole max. withstand 10/350 µs   | W/R                | 156 kJ/ohm            |
| Protection mode(s)   |                    | L/PE and N/PE         |
| Protection level @ In (8/20µs) and @ 6 kV (1.2/50 µs)  | Up                 | 1.5 kV                |
| Admissible short-circuit current   | I <sub>sc</sub>    | 50 000 A              |

### Mechanical Characteristics

|   |    |  |
|---|----|--|
| Technology                                |    | VG Technology (MOV+GSG)                          |
| SPD configuration                         |    | 2-poles  |
| Connection to Network                     |    | By screw terminals: 6-35mm <sup>2</sup> / by bus |
| 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 - Red/Green               |
| Remote signaling of disconnection         |    | Output on changeover contact                     |
| Wiring for remote signaling               |    | 1.5 mm <sup>2</sup> max.                         |
| Max. Voltage/Current for remote signaling |    | 250 V / 0.5 A (AC) / 30 V / 3 A (DC)             |
| Dimensions                                |    | See diagram - 4TE (EN43880)                      |
| Weight                                    |    | 0.836 kg   |

### Disconnectors

|                                   |  |   |
|-----------------------------------|--|---|
| Thermal disconnector              |  | Internal  |
| Installation ground fault breaker |  | Type 'S' or delayed   |
| Back-up protection device         |  | Fuse assembly: SFD1-13S-20 / or 125 A min. - 315 A max. - Fuses Type gG |

### Standards

|                      |  |                            |
|----------------------|--|----------------------------|
| Standards compliance |  | EN 61643-11 / IEC 61643-11 |
|----------------------|--|----------------------------|

### Part number

|          |  |  |
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