



# CITEL

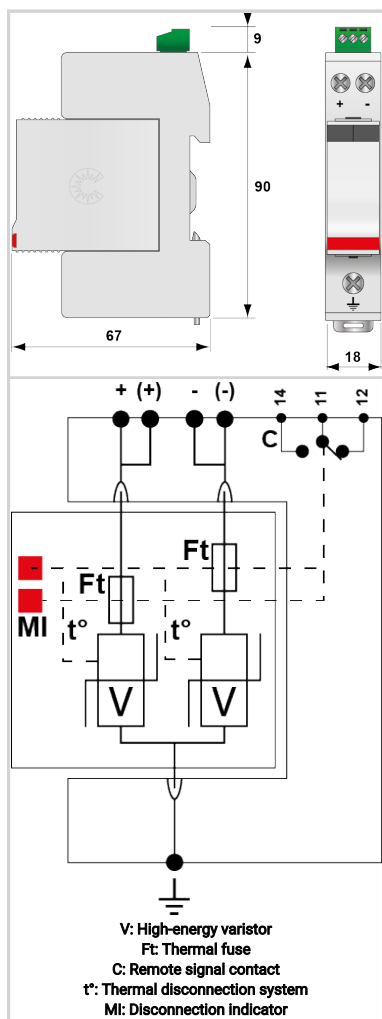


## DC power surge protector - 280 Vdc

### DS240S-280DC

➤ Discover our latest innovation : the [DDC40CS-20-350](#)

- DC power surge protector
- 280 Vdc
- Compact design
- I<sub>max</sub>: 40 kA
- Pluggable module
- Remote signaling
- Very low Up protection level



| Electrical Characteristics         |                        |                                                                      |
|------------------------------------|------------------------|----------------------------------------------------------------------|
| SPD type                           | IEC                    | 2                                                                    |
| Network                            |                        | DC or PV network 280Vdc                                              |
| Nominal DC voltage                 | Un-dc                  | 280 Vdc                                                              |
| Nominal PV voltage                 | Uocstc                 | 280 Vdc                                                              |
| Max. AC operating voltage          | Uc                     | 275 Vac                                                              |
| Max. PV operating voltage          | Ucpv                   | 350 Vdc                                                              |
| Max. DC operating voltage          | Uc                     | 350 Vdc                                                              |
| Max. load current @25°C            | IL                     | 50 A                                                                 |
| Residual Current                   |                        |                                                                      |
| Leakage current to Ground          | Ipe                    | < 0.2 mA                                                             |
| PV Permanent Operating current     |                        |                                                                      |
| Current consumption at Ucpv        | Icpv                   | < 0.1 mA                                                             |
| Follow current                     | If                     | None                                                                 |
| Nominal discharge current          | In                     | 20 kA                                                                |
| 15 x 8/20 µs impulses              |                        |                                                                      |
| Max. discharge current             | I <sub>max</sub>       | 40 kA                                                                |
| max. withstand @ 8/20 µs by pole   |                        |                                                                      |
| Total Maximum discharge current    | I <sub>max</sub> Total | 80 kA                                                                |
| max. total withstand @ 8/20 µs     |                        |                                                                      |
| Current withstand short circuit PV | Iscpv                  | 1000 A                                                               |
| Connection mode(s)                 |                        | +/-/PE                                                               |
| Protection mode(s)                 |                        | Common mode                                                          |
| Protection level +/-PE (-/PE)      | Up                     | 1200 V                                                               |
| @ In (8/20µs)                      |                        |                                                                      |
| Mechanical Characteristics         |                        |                                                                      |
| Technology                         |                        | MOV                                                                  |
| SPD configuration                  |                        | 2-poles                                                              |
| Connection to Network              |                        | By screw terminals: 1.5-10mm² (actives wires) and 2.5-25mm² (ground) |
| Format                             |                        | Plug-in 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 DC network                                        |
| Disconnection indicator            |                        | 2 mechanical indicators                                              |
| Spare module(s)                    |                        | DSM240-280DC                                                         |
| Remote signaling of disconnection  |                        | Output on changeover contact                                         |
| Dimensions                         |                        | See diagram                                                          |
| Disconnectors                      |                        |                                                                      |
| Thermal disconnector               |                        | Internal                                                             |
| Back-up protection device          |                        | Fuses type gG - 20A                                                  |
| Standards                          |                        |                                                                      |
| Standards compliance               |                        | IEC 61643-11 / EN 61643-11 / UL1449 ed.5                             |
| Certification                      |                        | UL Recognized                                                        |



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|                         |         |
|-------------------------|---------|
| Environmental standards | EU RoHS |
| <b>Part number</b>      |         |
| <b>310511</b>           |         |

