



# CITEL

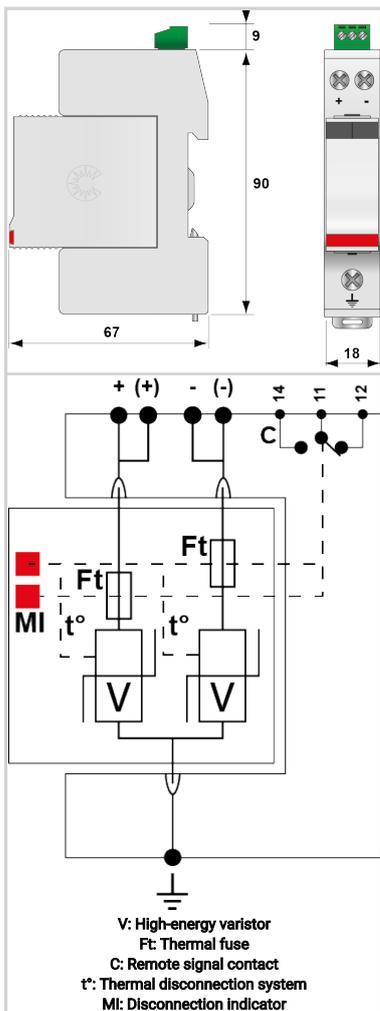
## DC power surge protector - 75 Vdc

### DS240S-75DC



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- DC power surge protector
- 75 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 75Vdc |
| Nominal DC voltage                      | Un-dc                  | 75 Vdc                 |
| Nominal PV voltage                      | Uocstc                 | 75 Vdc                 |
| Max. AC operating voltage               | Uc                     | 75 Vac                 |
| Max. PV operating voltage               | Ucpv                   | 100 Vdc                |
| Max. DC operating voltage               | Uc                     | 100 Vdc                |
| Max. load current @25°C                 | IL                     | 50 A                   |
| Residual Current                        |                        |                        |
| Leakage current to Ground               | I <sub>pe</sub>        | < 0.2 mA               |
| PV Permanent Operating current          | I <sub>cpv</sub>       | < 0.1 mA               |
| Current consumption at U <sub>cpv</sub> |                        |                        |
| Follow current                          | I <sub>f</sub>         | None                   |
| Nominal discharge current               | I <sub>n</sub>         | 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 Total</sub> | 80 kA                  |
| max. total withstand @ 8/20 μs          |                        |                        |
| Current withstand short circuit PV      | I <sub>scpv</sub>      | 1000 A                 |
| Connection mode(s)                      |                        | +/-/PE                 |
| Protection mode(s)                      |                        | Common mode            |
| Protection level +/-PE (-/PE)           | Up                     | 390 V                  |
| @ I <sub>n</sub> (8/20μs)               |                        |                        |

#### Mechanical Characteristics

|                                   |                |  |
|-----------------------------------|----------------|--|
| Technology                        |                | MOV  |
| SPD configuration                 |                | 2-poles  |
| Connection to Network             |                | By screw terminals: 1.5-10mm <sup>2</sup> (actives wires) and 2.5-25mm <sup>2</sup> (ground) |
| Format                            |                | Plug-in modular box  |
| Mounting                          |                | Symmetrical rail 35 mm (EN 60715)  |
| Housing material                  |                | Thermoplastic UL94 V-0   |
| Operating temperature             | T <sub>u</sub> | -40/+85°C  |
| Protection rating                 |                | IP20   |
| Failsafe mode                     |                | Disconnection from DC network  |
| Disconnection indicator           |                | 2 mechanical indicators  |
| Spare module(s)                   |                | DSM240-75DC  |
| 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        |  | cRUus                                    |



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Part number

310611

