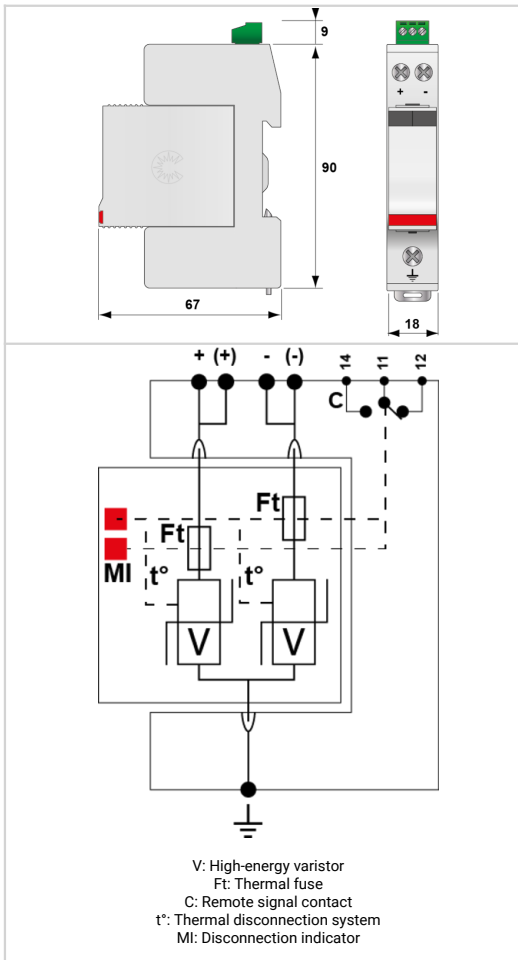


**DS240S-110DC**


- ✦ Discover our latest innovation : the [DDC40CS-20-150](#)
- ✦ DC power surge protector
- ✦ 110 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 110Vdc |
| Nominal DC voltage   | Un-dc                  | 110 Vdc                 |
| Nominal PV voltage   | Uocstc                 | 110 Vdc                 |
| Max. AC operating voltage                                      | Uc                     | 115 Vac                 |
| Max. PV operating voltage                                      | Ucpv                   | 150 Vdc                 |
| Max. DC operating voltage                                      | Uc                     | 150 Vdc                 |
| Max. load current @25°C  | IL                     | 50 A                    |
| Residual Current Leakage current to Ground                     | I <sub>pe</sub>        | < 0.1 mA                |
| PV Permanent Operating current Current consumption at Ucpv     | I <sub>cpv</sub>       | < 0.1 mA                |
| Follow current   | I <sub>f</sub>         | None                    |
| Nominal discharge current 15 x 8/20 μs impulses                | I <sub>n</sub>         | 20 kA                   |
| Max. discharge current max. withstand @ 8/20 μs by pole        | I <sub>max</sub>       | 40 kA                   |
| Total Maximum discharge current max. total withstand @ 8/20 μs | I <sub>max Total</sub> | 80 kA                   |
| Current withstand short circuit PV                             | I <sub>scpv</sub>      | 1000 A                  |
| Connection mode(s)   |                        | +/-/PE                  |
| Protection mode(s)   |                        | Common mode             |
| Protection level +/-/PE (-/PE) @ I <sub>n</sub> (8/20μs)       | U <sub>p</sub>         | 500 V                   |

**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)                   |                | DSM240-110DC   |
| 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 |
|----------------------|--|--|

**Part number**

|        |
|--------|
| 310711 |
|--------|