



# CITEL

## Compact 1-phase Type 2 (or 3) surge protector - 230 V - Pluggable

### DS240-230/G



➤ Discover our latest innovation : the [DAC40C-11-275](#)

➤ Compact single-phase Type 2 surge protector

➤ In : 20 kA

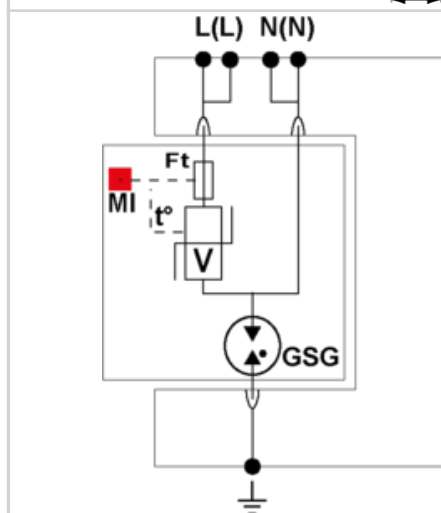
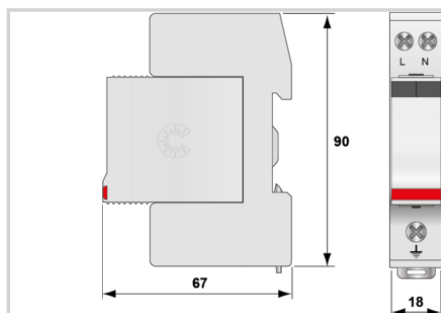
➤ I<sub>max</sub> : 40 kA

➤ Common/Differential mode

➤ Pluggable module

➤ Remote signaling option

➤ EN 61643-11, IEC 61643-11, UL1449 ed.5



V: High-energy varistor  
GSG: Specific Gas Tube  
Ft: Thermal fuse  
t\*: Thermal disconnection system  
MI: Disconnection indicator

#### Electrical Characteristics

|                                                                                                             |                                 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------|
| SPD type                                                                                                    | 2                               |
| Network                                                                                                     | 230 V single-phase              |
| AC system                                                                                                   | TT-TN                           |
| Nominal line voltage                                                                                        | Un 230 Vac                      |
| Max. AC operating voltage                                                                                   | Uc 255 Vac                      |
| Max. load current<br>if series connection                                                                   | IL 20 A                         |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>Without disconnection                              | UT 335 Vac withstand            |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>Without disconnection or with safety disconnection | UT 440 Vac disconnection        |
| Temporary Over Voltage N/PE (TOV HT)<br>Without disconnection or with safety disconnection                  | UT 1200 V/300A/200 ms withstand |
| Residual Current<br>Leakage current to Ground                                                               | I <sub>pe</sub> None            |
| Follow current                                                                                              | I <sub>f</sub> None             |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                                                     | I <sub>n</sub> 20 kA            |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole                                             | I <sub>max</sub> 40 kA          |
| Total Maximum discharge current<br>max. total withstand @ 8/20 $\mu$ s                                      | I <sub>max</sub> Total 40 kA    |
| Connection mode(s)                                                                                          | L/N and N/PE                    |
| Protection mode(s)                                                                                          | Common/Differential mode        |
| Residual voltage at 5 kA<br>@ 5 kA (8/20 $\mu$ s)                                                           | Up-5kA 1.5/0.9 kV               |
| Protection level L/N<br>@ In (8/20 $\mu$ s)                                                                 | Up L/N 1.25 kV                  |
| Protection level N/PE<br>@ In (8/20 $\mu$ s)                                                                | Up N/PE 1.5 kV                  |
| Admissible short-circuit current                                                                            | I <sub>sc</sub> 10 000 A        |

#### Mechanical Characteristics

|                                   |                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------|
| Technology                        | MOV+GDT                                                                       |
| SPD configuration                 | Single phase                                                                  |
| Connection to Network             | By screw terminals: 1.5-10mm <sup>2</sup> (L/N) or 2.5-25mm <sup>2</sup> (PE) |
| 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 AC network                                                 |
| Disconnection indicator           | 1 mechanical indicator                                                        |
| Spare module(s)                   | DSM240-230/G                                                                  |
| Remote signaling of disconnection | Option DS240S-230/G : output on changeover contact                            |
| Dimensions                        | See diagram                                                                   |
| Weight                            | 0.108 kg                                                                      |

#### Disconnectors

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Thermal disconnector              | Internal                               |
| Installation ground fault breaker | Type 'S' or delayed                    |
| Back-up protection device         | 50 A min. - 125 A max. - Fuses Type gG |

#### Standards

|                      |                                          |
|----------------------|------------------------------------------|
| Standards compliance | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification        | UL / CSA / TUV Süd                       |

#### Part number

311721

