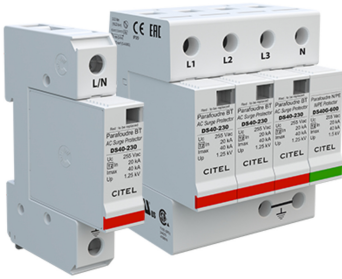




# CITEL

## Type 2 AC surge protector - Single-phase

### DS42-385



- Discover our latest innovation : the [DAC50-20-440](#)
- Type 2 AC Multipolar surge protector
- In : 20 kA
- I<sub>max</sub> : 40 kA
- Pluggable module for each phase
- Remote signaling option
- NF EN 61643-11, IEC 61643-11 compliance



| Electrical Characteristics   |                           |  |
|--|---------------------------|--|
| SPD type   | IEC                       | 2  |
| Network  |                           | 230/400 V  |
| AC system  |                           | TT-TN  |
| Nominal line voltage   | U <sub>n</sub>            | 230 Vac  |
| Max. AC operating voltage  | U <sub>c</sub>            | 385 Vac  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT                        | 335 Vac withstand                                  |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT                        | 440 Vac disconnection                              |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT                        | 1200 V/300A/200 ms withstand                       |
| Residual Current<br><i>Leakage current to Ground</i>   | I <sub>pe</sub>           | None   |
| Follow current   | I <sub>f</sub>            | None   |
| Nominal discharge current<br><i>15 x 8/20 μs impulses</i>  | I <sub>n</sub>            | 20 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>  | I <sub>max</sub>          | 40 kA  |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 μs</i>   | I <sub>max</sub><br>Total | 40 kA  |
| Connection mode(s)   |                           | L/N and N/PE                                       |
| Protection mode(s)   |                           | Common/Differential mode                           |
| Protection level<br><i>@ I<sub>n</sub> (8/20 μs)</i>   | U <sub>p</sub>            | 1.8 kV   |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20 μs)</i>  | U <sub>p-5kA</sub>        | 0.9 kV   |
| Admissible short-circuit current   | I <sub>sc</sub>           | 25 000 A   |
| Mechanical Characteristics   |                           |  |
| Technology   |                           | MOV  |
| SPD configuration  |                           | Single phase                                       |
| Connection to Network  |                           | By screw terminals: 2.5-25mm <sup>2</sup> / by bus |
| 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 AC network                      |
| Disconnection indicator  |                           | 1 mechanical indicator by pole                     |
| Spare module(s)  |                           | DSM40-385+DSM40G-600                               |
| Remote signaling of disconnection  |                           | option DS42S-385/G : output on changeover contact  |
| Dimensions   |                           | See diagram  |
| Disconnectors  |                           |  |
| Thermal disconnector   |                           | Internal   |
| Installation ground fault breaker  |                           | Type 'S' or delayed                                |
| Back-up protection device  |                           | Fuses type gG - 50 A                               |
| Standards  |                           |  |
| Standards compliance   |                           | IEC 61643-11 / EN 61643-11                         |
| Certification  |                           |  |
| Part number  |                           |  |
| <b>461201</b>  |                           |  |

