



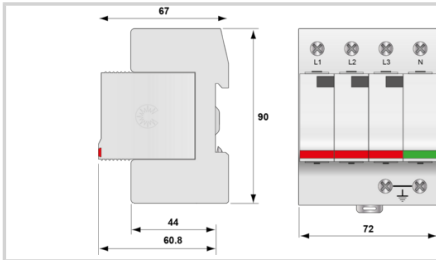
## Type 2 AC surge protector - 3-phase+N

# CITEL

## DS44-280/G



- Discover our latest innovation : the [DAC50-31-320](#)
- Type 2 AC Multipolar surge protector
- In : 20 kA
- Imax total : 40 kA
- Pluggable module for each phase
- Remote signaling option
- EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5



| Electrical Characteristics   |            |  |
|--|------------|--|
| SPD type   | IEC        | 2  |
| Network  |            | 230/400 V 3-phase+N                                |
| AC system  |            | TT-TNS   |
| Nominal line voltage   | Un         | 230 Vac  |
| Max. AC operating voltage  | Uc         | 280 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>   | Ipe        | None   |
| Follow current   | If         | None   |
| Nominal discharge current<br><i>15 x 8/20 μs impulses</i>  | In         | 20 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>  | Imax       | 40 kA  |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 μs</i>   | Imax Total | 40 kA  |
| Impulse current N/PE<br><i>max. withstand 10/350μs by pole</i>   | Iimp       | 12,5 kA  |
| Connection mode(s)   |            | L/N and N/PE                                       |
| Protection mode(s)   |            | Common/Differential mode                           |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20μs)</i>   | Up-5kA     | 0.9 kV   |
| Protection level L/N<br><i>@ In (8/20μs)</i>   | Up L/N     | 1.3 kV   |
| Protection level N/PE<br><i>@ In (8/20μs)</i>  | Up N/PE    | 1.5 kV   |
| Admissible short-circuit current   | Iscsr      | 25 000 A   |
| Mechanical Characteristics   |            |  |
| Technology   |            | MOV+GDT  |
| SPD configuration  |            | 3-phase+Neutral                                    |
| 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  | Tu         | -40/+85°C  |
| Protection rating  |            | IP20   |
| Failsafe mode  |            | Disconnection from AC network                      |
| Disconnection indicator  |            | 1 mechanical indicator by pole                     |
| Spare module(s)  |            | DSM40-280+DSM40G-600                               |
| Remote signaling of disconnection  |            | option DS44S-280/G: output on changeover contact   |
| Dimensions   |            | See diagram  |
| Weight   |            | 0.325 kg   |
| 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 / UL1449 ed.5           |
| Certification  |            | UL / CSA / TUV Süd                                 |
| Part number  |            |  |
| 461112   |            |  |

