



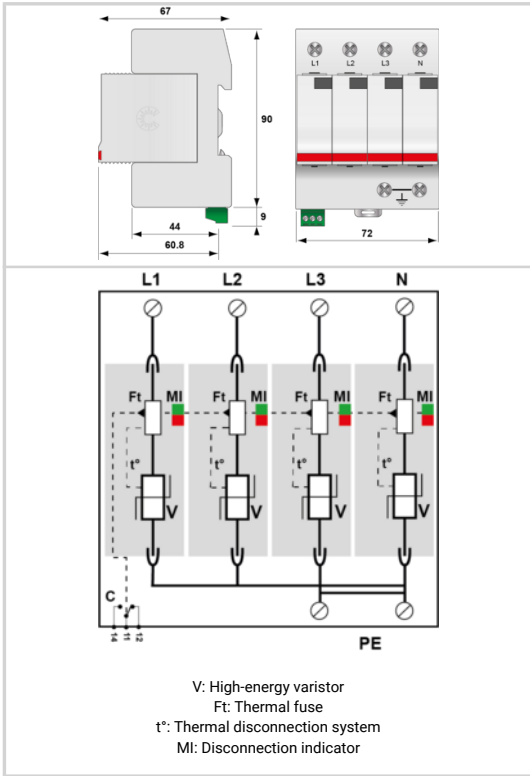
# Type 2 AC surge protector - 3-phase+N

# CITEL

## DS44S-280



- Discover our latest innovation : the [DAC50S-40-320](#)
- Type 2 AC Multipolar surge protector
- In 20 kA
- I<sub>max</sub> total: 160 kA
- Pluggable module for each phase
- Remote signaling option
- EN 61643-11, IEC 61643-11, UL1449 ed.5



| Electrical Characteristics   |                        |  |
|--|------------------------|--|
| SPD type   | IEC                    | 2  |
| Network  |                        | 230/400 V 3-phase+N                                |
| AC system  |                        | TNS  |
| Nominal line voltage   | U <sub>n</sub>         | 230 Vac  |
| Max. AC operating voltage  | U <sub>c</sub>         | 280 Vac  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT                     | 335 Vac withstand                                  |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT                     | 440 Vac disconnection                              |
| Residual Current Leakage current to Ground   | I <sub>pe</sub>        | < 2 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</sub> Total | 160 kA   |
| Connection mode(s)   |                        | L/PE and N/PE                                      |
| Protection mode(s)   |                        | Common mode  |
| Protection level @ I <sub>n</sub> (8/20μs)   | U <sub>p</sub>         | 1.3 kV   |
| Admissible short-circuit current   | I <sub>sc</sub>        | 25 000 A   |
| Mechanical Characteristics   |                        |  |
| Technology   |                        | MOV  |
| 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  | 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)  |                        | DSM40-280  |
| Remote signaling of disconnection  |                        | output on changeover contact                       |
| Dimensions   |                        | See diagram  |
| Weight   |                        | 0.34 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  |                        | CSA / UL Listed                                    |
| Part number  |                        |  |
| 461122   |                        |  |

