



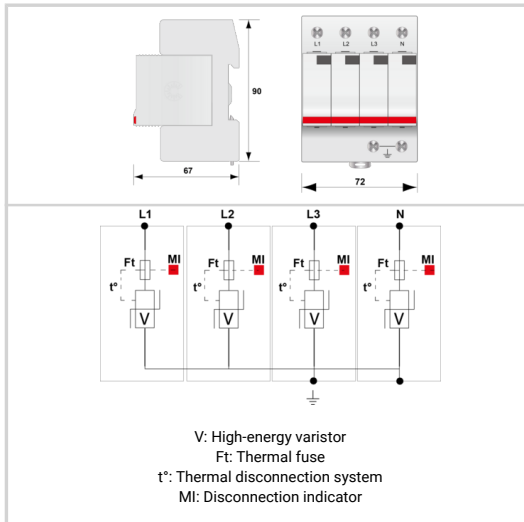
## Type 2 AC surge protector - 3-phase+N

# CITEL

## DS44-400



- Discover our latest innovation : the [DAC50-40-440](#)
- Type 2 AC Multipolar surge protector
- In : 20 kA
- I<sub>max</sub> total : 160 kA
- Pluggable module for each phase
- Remote signaling option
- NF EN 61643-11, IEC 61643-11 compliance
- UL1449 ed.5



| Electrical Characteristics   |                        |   |
|--|------------------------|---|
| SPD type   |                        | 2   |
| Network  |                        | 230/400 V 3-phase+N                                 |
| AC system  |                        | TT-TN   |
| Nominal line voltage   | U <sub>n</sub>         | 400 Vac   |
| Max. AC operating voltage  | U <sub>c</sub>         | 440 Vac   |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT                     | 580 Vac withstand                                   |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT                     | 770 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   |
| Residual voltage at 5 kA @ 5 kA (8/20 μs)  | U <sub>p-5kA</sub>     | 1.3 kV  |
| Protection level N/PE @ I <sub>n</sub> (8/20 μs)   | U <sub>p N/PE</sub>    | 1.8 kV  |
| Protection level L/PE @ I <sub>n</sub> (8/20 μs)   | U <sub>p L/PE</sub>    | 1.8 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: 2.5-2.5mm <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)  |                        | DSM40-400   |
| Remote signaling of disconnection  |                        | option DS44S-400 : output on changeover contact     |
| Dimensions   |                        | See diagram   |
| Disconnectors  |                        |   |
| Thermal disconnecter   |                        | 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  |
| Part number  |                        |   |
| 461402   |                        |   |

