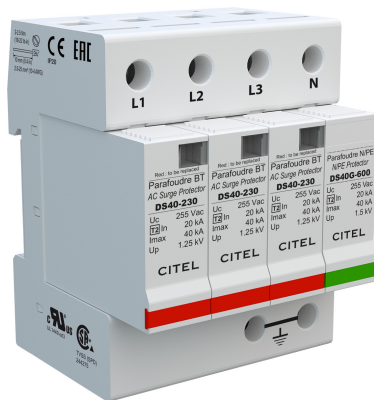




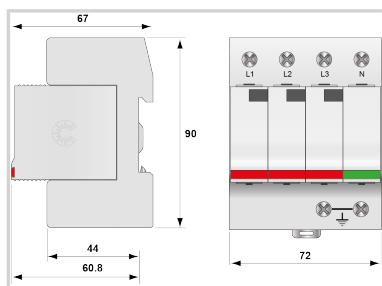
# CITEL



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

### DS44-230/G

- Discover our latest innovation : the [DAC50-31-275](#)
- Type 2 AC Multipolar surge protector
- In : 20 kA
- I<sub>max</sub> 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                                                                                                            |                        | 230/400V                                           |
| AC system                                                                                                          |                        | TT-TNS                                             |
| Nominal line voltage                                                                                               | U <sub>n</sub>         | 230 Vac                                            |
| Max. AC operating voltage                                                                                          | U <sub>c</sub>         | 255 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> Total | 40 kA                                              |
| Connection mode(s)                                                                                                 |                        | L/N and N/PE                                       |
| Protection mode(s)                                                                                                 |                        | Common/Differential mode                           |
| Residual voltage at 5 kA<br><i>@ 5 kA (8/20 μs)</i>                                                                | Up-5kA                 | 0.9 kV                                             |
| Protection level L/N<br><i>@ I<sub>n</sub> (8/20 μs)</i>                                                           | Up L/N                 | 1.25 kV                                            |
| Protection level L/PE<br><i>@ I<sub>n</sub> (8/20 μs)</i>                                                          | Up L/PE                | 1.5 kV                                             |
| Admissible short-circuit current                                                                                   | I <sub>scrr</sub>      | 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                                                                                              | 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)                                                                                                    |                        | DSM40-230+DSM40G-600                               |
| Remote signaling of disconnection                                                                                  |                        | option DS44S-230/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 / UL1449 ed.5           |
| Certification                                                                                                      |                        | cRUus                                              |
| Part number                                                                                                        |                        |                                                    |
| <b>461512</b>                                                                                                      |                        |                                                    |

