

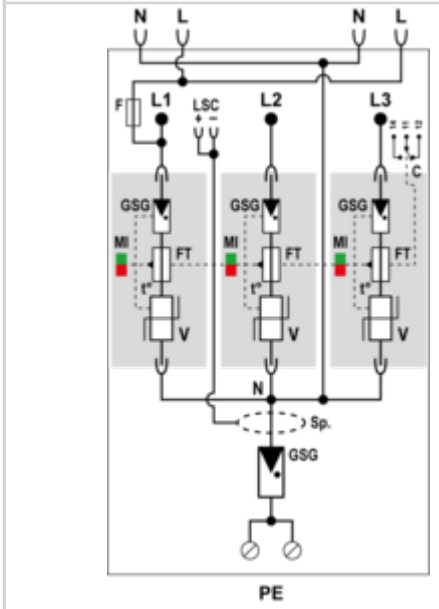
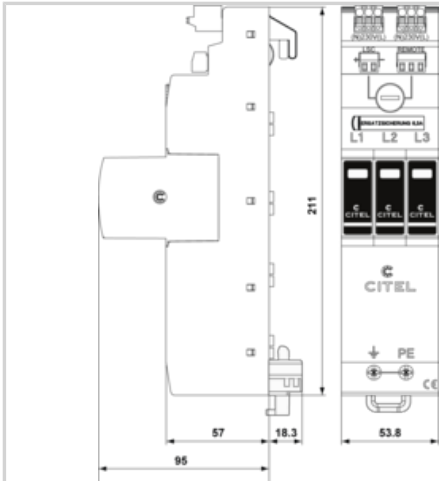


# Type 1+2+3 AC surge protector - 3-phase+N

## CITEL ZPAC1-8VG-PRO-SUM



- Type 1+2+3 AC Surge protection
- VG Technology
- For 40 mm busbar systems
- Iimp 8 kA (10/350 μs)
- Reduces energy costs: Does not produce flow current and leakage current
- Certified IEC 61643-11 and EN 61643-11



### Electrical Characteristics

|  |                                 |
|--|---------------------------------|
| SPD type   | 1+2+3                           |
| Network  | 230/400 V 3-phase+N             |
| AC system  | TT-TNS                          |
| Nominal line voltage   | Un 230/400 Vac                  |
| Max. AC operating voltage  | Uc 275 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 withstand            |
| Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection                  | UT 1200 V/300A/200 ms withstand |
| Residual Current   | Ipe None                        |
| Leakage current to Ground  | Ipe None                        |
| Follow current   | If None                         |
| Nominal discharge current 15 x 8/20 μs impulses  | In 20 kA                        |
| Max. discharge current max. withstand @ 8/20 μs by pole  | Imax 50 kA                      |
| Impulse current by pole max. withstand 10/350μs by pole  | Iimp 8 kA                       |
| Total lightning current max. total withstand @ 10/350μs  | Itotal 32 kA                    |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs                         | Uoc 6 kV                        |
| Withstand on overvoltages IEEE C62.41.1  | 20 kV                           |
| Specific energy by pole max. withstand 10/350 μs   | W/R 16 kJ/ohm                   |
| Connection mode(s)   | L/N and N/PE                    |
| Protection mode(s)   | Common/Differential mode        |
| Protection level L/N @ In (8/20μs)   | Up L/N 1.5 kV                   |
| Protection level L/PE @ In (8/20μs)  | Up L/PE 1.5 kV                  |
| Residual voltage L/N at 5 kA @ 5 kA (8/20μs)   | Up-5kA 0.7 kV                   |
| Admissible short-circuit current   | Iscrc 50 000 A                  |

### Mechanical Characteristics

|   |  |
|---|--|
| Technology                                | VG Technology (MOV+GSG)  |
| SPD configuration                         | 3-phase+Neutral  |
| Connection to Network                     | By 40mm busbar and wire for PE: 6-35mm <sup>2</sup> (50mm <sup>2</sup> ) |
| Format                                    | Plug-in modular box  |
| Mounting                                  | 40 mm busbar systems   |
| 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)                           | ZMDAC1-8VG-PRO-275   |
| Remote signaling of disconnection         | Output on changeover contact   |
| Wiring for remote signaling               | 1.5 mm <sup>2</sup> max.   |
| Max. Voltage/Current for remote signaling | 250 V / 0.5 A (AC) / 30 V / 2 A (DC)                                     |
| Dimensions                                | See diagram  |

### Disconnectors

|                                   |                     |
|-----------------------------------|---------------------|
| Thermal disconnector              | Internal            |
| Installation ground fault breaker | Type 'S' or delayed |
| Back-up protection device         | max. 315 A (gL/gG)  |

### Standards

|                      |  |
|----------------------|--|
| Standards compliance | IEC 61643-11 / EN 61643-11 / UL1449 4ed. |
|----------------------|--|



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|               |       |
|---------------|-------|
| Certification | KEMA  |
| Part number   | 64086 |

