



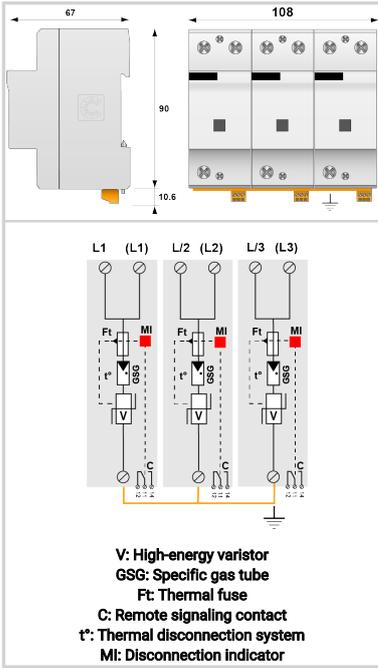
CITEL



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

DS253VG-120

- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance



Electrical Characteristics

| | | |
|--|---------|-------------------|
| SPD type | IEC | 1+2+3 |
| Network | | 120/208 V 3-phase |
| AC system | | TNC |
| Nominal line voltage | Un | 120 Vac |
| Max. AC operating voltage | Uc | 150 Vac |
| Max. load current <i>if series connection</i> | IL | 100 A |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i> | UT | 180 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i> | UT | 230 Vac withstand |
| Residual Current <i>Leakage current to Ground</i> | Ipe | None |
| Follow current | If | None |
| Nominal discharge current <i>15 x 8/20 µs impulses</i> | In | 30 kA |
| Max. discharge current <i>max. withstand @ 8/20 µs by pole</i> | Imax | 70 kA |
| Impulse current by pole <i>max. withstand 10/350µs by pole</i> | Iimp | 25 kA |
| Total lightning current <i>max. total withstand @ 10/350µs</i> | Itotal | 75 kA |
| Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50µs - 8/20µs</i> | Uoc | 20 kV |
| Withstand on overvoltages IEEE C62.41.1 | | 20 kV |
| Specific energy by pole <i>max. withstand 10/350 µs</i> | W/R | 156 kJ/ohm |
| Connection mode(s) | | L/PE |
| Protection mode(s) | | Common mode |
| Residual voltage <i>@ In (8/20 µs)</i> | Up-in | 0.7 kV |
| Protection level L/PE <i>@ In (8/20µs)</i> | Up L/PE | 1 kV |
| Admissible short-circuit current | Iscrr | 50 000 A |

Mechanical Characteristics

| | | |
|-----------------------------------|----|--|
| Technology | | VG Technology (MOV+GSG) |
| SPD configuration | | 3-phase |
| Connection to Network | | By screw terminals: 6-35mm ² / by bus |
| Format | | 1-pole modular box assembled |
| 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 |
| Remote signaling of disconnection | | Output on changeover contact |
| Dimensions | | See diagram |

Disconnectors

| | | |
|-----------------------------------|--|---|
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| Back-up protection device | | Fuse assembly: SFD1-25-30S / or Fuses Type gG 315 A |

Standards

| | | |
|----------------------|--|--|
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification | | UL Recognized |

Part number

3959

