



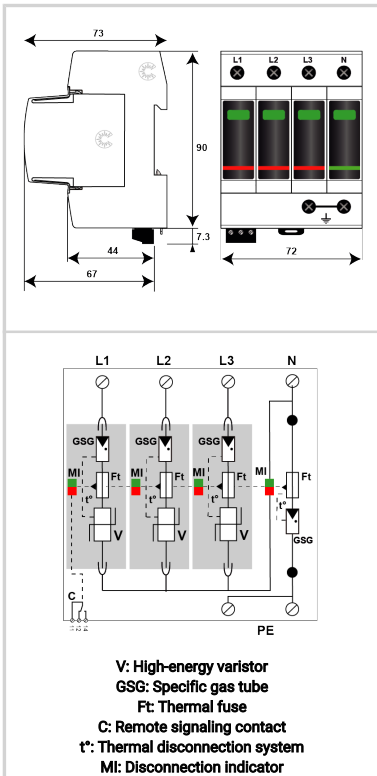
CITEL

Type 2 AC surge protector - 3-phase+N

DAC50VGS-31-150



- Type 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance



Electrical Characteristics

| | | |
|--|------------|------------------------------|
| SPD type | IEC | 2+3 |
| Network | | 120/208 V 3-phase+N |
| AC system | | TT-TNS |
| Max. AC operating voltage | Uc | 150 Vac |
| 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 |
| Temporary Over Voltage N/PE (TOV HT) <i>Without disconnection or with safety disconnection</i> | UT | 1200 V/300A/200 ms withstand |
| Residual Current | Ipe | None |
| Leakage current to Ground | | |
| Follow current | If | None |
| Nominal discharge current <i>15 x 8/20 μs impulses</i> | In | 20 kA |
| Max. discharge current <i>max. withstand @ 8/20 μs by pole</i> | Imax | 50 kA |
| Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i> | Imax Total | 50 kA |
| Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i> | Uoc | 6 kV |
| Connection mode(s) | | L/N and N/PE |
| Protection level <i>@ In (8/20μs) and @ 6 kV (1,2/50 μs)</i> | Up L/N | 1.5 kV |
| Protection level N/PE <i>@ In (8/20μs) and @ 6 kV (1,2/50 μs)</i> | Up N/PE | 1.5 kV |
| Residual voltage L/N at 5 kA <i>@ 5 kA (8/20μs)</i> | Up-5kA | 0.4 kV |
| Protection level N/PE at 5 kA <i>@ 5 kA (8/20μs)</i> | Up-5kA | 0.4 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 screw terminals: 2.5-25mm ² (35mm ² rigid) |
| Format | | Plug-in modular box |
| 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 - Red/Green |
| Spare module(s) | | MDAC50VG-150 + MDAC50G-255 |
| Remote signaling of disconnection | | Output on changeover contact |
| Wiring for remote signaling | | 1.5 mm ² max. |
| Max. Voltage/Current for remote signaling | | 250 V / 0.5 A (AC) / 30 V / 3 A (DC) |
| Dimensions | | See diagram - 4TE (EN43880) |

Disconnectors

| | | |
|-----------------------------------|--|--|
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| Back-up protection device | | 50 A min. - 160 A max. - Fuses Type gG |

Standards

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

Part number

821130144

