



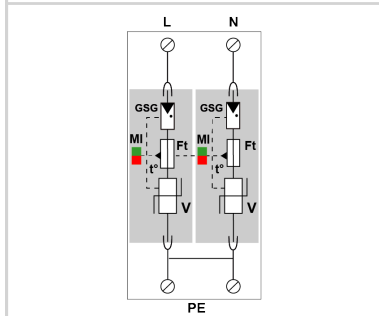
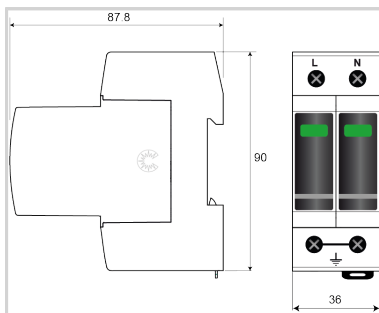
CITEL

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

DAC1-13VG-20-275



- Type 1 + 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- Iimp : 12,5 kA on 10/350µs impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling (option)
- Optimized to TOV
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance



V: High-energy varistor
 GSG: Specific Gas Tube
 Ft: Thermal fuse
 †: Thermal disconnection system
 MI: Disconnection Indicator

Electrical Characteristics

| | | |
|---|------------------------|-------------------|
| SPD type | IEC | 1+2+3 |
| Network | | 230/400 V |
| AC system | | TN |
| 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 |
| Residual Current | Ipe | None |
| Leakage current to Ground | | |
| 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 | I _{max} | 50 kA |
| Total Maximum discharge current max. total withstand @ 8/20 µs | I _{max} Total | 100 kA |
| Impulse current by pole max. withstand 10/350µs by pole | I _{imp} | 12.5 kA |
| Impulse current N/PE max. withstand 10/350µs | I _{imp} N /PE | 50 kA |
| Total lightning current max. total withstand @ 10/350µs | I _{total} | 25 kA |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs | Uoc | 6 kV |
| Specific energy by pole max. withstand 10/350 µs | W/R | 40 kJ/ohm |
| Protection mode(s) | | L/PE and N/PE |
| Protection level L/PE @ In (8/20µs) and @ 6 kV (1,2/50 µs) | L/PE | 1.5 kV |
| Protection level N/PE @ In (8/20µs) and @ 6 kV (1,2/50 µs) | Up N/PE | 1.5 kV |
| Protection level N/PE at 5 kA @ 5 kA (8/20µs) | Up-5kA | 0.7 kV |
| Residual voltage L/PE at 5 kA @ 5 kA (8/20µs) | Up-5kA | 0.7 kV |
| Admissible short-circuit current | I _{scrr} | 50 000 A |

Mechanical Characteristics

| | | |
|---|----|---|
| Technology | | VG Technology (MOV+GSG) |
| SPD configuration | | Single phase |
| 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) | | MDAC1-13VG-275 |
| Remote signaling of disconnection | | option DAC1-13VGS-20-275: 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 - 2TE (EN43880) |
| Weight | | 0.346 kg |

Disconnectors

| | | |
|-----------------------------------|--|---------------------|
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |



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| | | |
|---------------------------|--|--|
| Back-up protection device | | Fuse assembly: SFD1-13S-20 / or 125 A min. - 315 A max. - Fuses Type gG |
| Standards | | |
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification | | KEMA |
| Part number | | |
| 821730212 | | |

