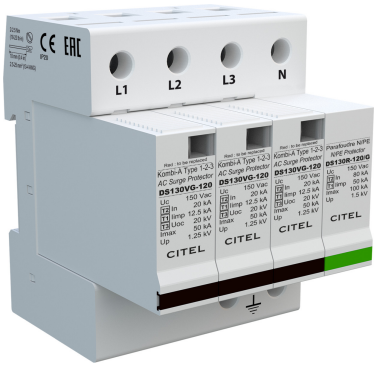
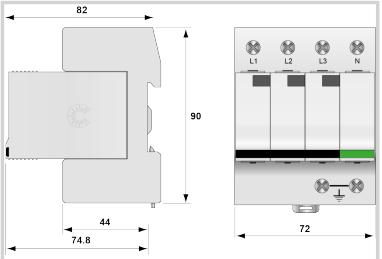
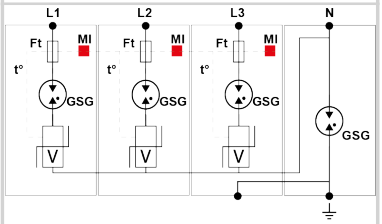
*Type 1+2+3 AC surge protector - 3-phase+N*

# DS134VG-120/G




- **Discover our latest innovation : the DAC1-13VG-31-150**
- Type 1 + 2 + 3 AC surge protector
- In : 20 kA
- Iimp total : 50 kA on 10/350µs impulse
- Pluggable module
- Optimized to TOV
- Remote signaling (option)
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance




**V: High-energy varistor**
**GSG: Specific Gas Tube**
**Ft: Thermal fuse**
**t°: Thermal disconnection system**
**MI: Disconnection indicator**

| Electrical Characteristics | | |
|---|---|---|
| SPD type | IEC | 1+2+3 |
| Network | | 120/208 V |
| AC system | | TT-TNS |
| Nominal line voltage | Un | 120 Vac |
| Max. AC operating voltage | Uc | 150 Vac |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>*Without disconnection* | UT | 180 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>*Without disconnection or with safety disconnection* | UT | 230 Vac withstand |
| Temporary Over Voltage N/PE (TOV HT)<br>*Without disconnection or with safety disconnection* | UT | 1200 V/300A/200 ms withstand |
| Residual Current<br>*Leakage current to Ground* | Ipe | None |
| Follow current | If | None |
| Nominal discharge current<br>*15 x 8/20 µs impulses* | In | 20 kA |
| Max. discharge current<br>*max. withstand @ 8/20 µs by pole* | Imax | 50 kA |
| Impulse current by pole<br>*max. withstand 10/350µs by pole* | Iimp | 12.5 kA |
| Total lightning current<br>*max. total withstand @ 10/350µs* | Itotal | 50 kA |
| Withstand on Combination waveform IEC 61643-11<br>*Class III test: 1.2/50µs - 8/20µs* | Uoc | 20 kV |
| Withstand on overvoltages IEEE C62.41.1 | | 20 kV |
| Specific energy by pole<br>*max. withstand 10/350 µs* | W/R | 40 kJ/ohm |
| Connection mode(s) | | L/N and N/PE |
| Protection mode(s) | | Common/Differential mode |
| Residual voltage<br>*@ In (8/20 µs)* | Up-in | 0.4 kV |
| Protection level L/N<br>*@ In (8/20µs)* | Up L/N | 1.25 kV |
| Protection level N/PE<br>*@ In (8/20µs)* | Up N/PE | 1.5 kV |
| Admissible short-circuit current | Isccr | 25 000 A |
| **Mechanical Characteristics** | | |
| Technology | | VG Technology (MOV+GSG) |
| SPD configuration | | 3-phase+Neutral |
| Connection to Network | | By screw terminals: 2.5-25mm² / by bus |
| 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 |
| Spare module(s) | | DSM130VG-120 |
| Remote signaling of disconnection | | option DS134VGS-120/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 - 125 A |
| **Standards** | | |
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| **Part number** | | |
| **571664** | | |