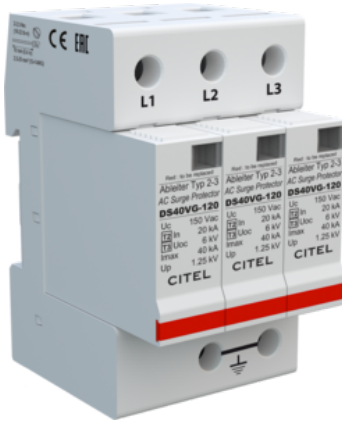
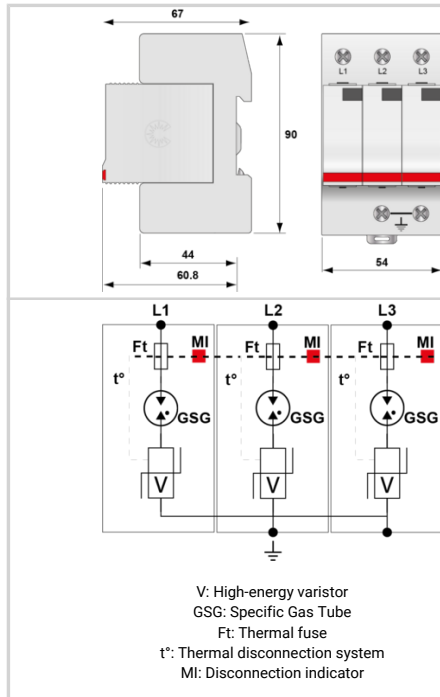


## DS43VG-120



- Type 2 + 3 AC Multipolar surge protector
- $I_n$  : 20 kA
- $I_{max}$  total: 120 kA
- Pluggable module
- Follow and operating current : none
- No ageing
- Optional remote signaling state
- Optimized to TOV
- EN 61643-11, IEC 61643-11, UL1449 ed.5 compliance



### Electrical Characteristics

|                                                                                                          |                               |
|----------------------------------------------------------------------------------------------------------|-------------------------------|
| SPD type                                                                                                 | 2+3                           |
| Network                                                                                                  | 120/208 V 3-phase             |
| AC system                                                                                                | TNC                           |
| Nominal line voltage                                                                                     | $U_n$ 120 Vac                 |
| Max. AC operating voltage                                                                                | $U_c$ 150 Vac                 |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection                              | UT 180 Vac withstand          |
| Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection | UT 230 Vac withstand          |
| Residual Current Leakage current to Ground                                                               | $I_{pe}$ None                 |
| Follow current                                                                                           | $I_f$ None                    |
| Nominal discharge current 15 x 8/20 $\mu$ s impulses                                                     | $I_n$ 20 kA                   |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                             | $I_{max}$ 40 kA               |
| Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s                                      | $I_{max}$ Total 120 kA        |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s             | $U_{oc}$ 6 kV                 |
| Withstand on overvoltages IEEE C62.41.1                                                                  | 20 kV                         |
| Connection mode(s)                                                                                       | L/PE                          |
| Protection mode(s)                                                                                       | Common mode/Differential mode |
| Residual voltage @ $I_n$ (8/20 $\mu$ s)                                                                  | $U_{p-in}$ 0.6 kV             |
| Protection level L/PE @ $I_n$ (8/20 $\mu$ s)                                                             | $U_{p L/PE}$ 1.25 kV          |
| Admissible short-circuit current                                                                         | $I_{scrr}$ 25 000 A           |

### Mechanical Characteristics

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Technology                        | VG Technology (MOV+GSG)                            |
| SPD configuration                 | 3-phase                                            |
| Connection to Network             | By screw terminals: 2.5-25mm <sup>2</sup> / by bus |
| Format                            | Plug-in modular box                                |
| Mounting                          | Symmetrical rail 35 mm (EN 60715)                  |
| Housing material                  | Thermoplastic UL94 V-0                             |
| Operating temperature             | $T_u$ -40/+85°C                                    |
| Protection rating                 | IP20                                               |
| Failsafe mode                     | Disconnection from AC network                      |
| Disconnection indicator           | 1 mechanical indicator by pole                     |
| Spare module(s)                   | DSM40VG-120                                        |
| Remote signaling of disconnection | option DS43VGS-120 : output on changeover contact  |
| Dimensions                        | See diagram                                        |
| Weight                            | 0.25 kg                                            |

### Disconnectors

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

### Standards

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

### Part number

461653