



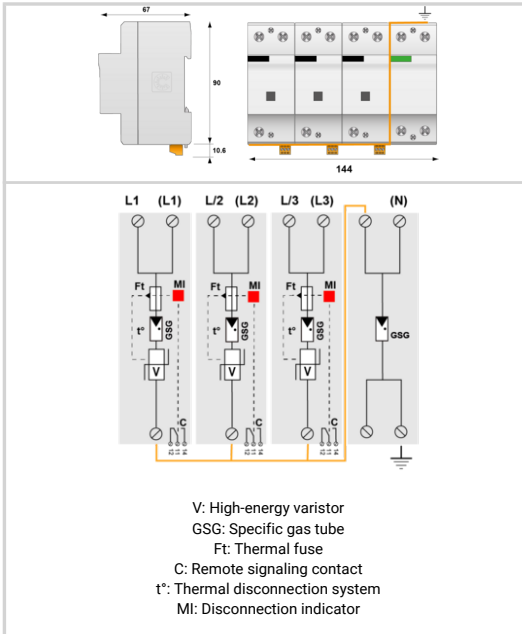
# Type 1+2+3 AC surge protector - 3-phase+N

# CITEL

## DS254VG-300/G



- 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   | 1+2+3   |
| Network  | 230/400 V 3-phase+N                                 |
| AC system  | TT-TNS  |
| Nominal line voltage   | Un 230/400 Vac                                      |
| Max. AC operating voltage  | Uc 255 Vac  |
| Max. load current<br><i>if series connection</i>   | IL 100 A  |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br><i>Without disconnection</i>                              | UT 335 Vac withstand                                |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br><i>Without disconnection or with safety disconnection</i> | UT 440 Vac withstand                                |
| Temporary Over Voltage N/PE (TOV HT)<br><i>Without disconnection or with safety disconnection</i>                  | UT 1200 V/300A/200 ms withstand                     |
| Residual Current<br><i>Leakage current to Ground</i>   | Ipe None  |
| Follow current   | If None   |
| Nominal discharge current<br><i>15 x 8/20 µs impulses</i>  | In 30 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 µs by pole</i>  | Imax 70 kA  |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 µs</i>   | Imax Total 150 kA                                   |
| Impulse current by pole<br><i>max. withstand 10/350µs by pole</i>  | Iimp 25 kA  |
| Total lightning current<br><i>max. total withstand @ 10/350µs</i>  | Itotal 100 kA                                       |
| Withstand on Combination waveform IEC 61643-11<br><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<br><i>max. withstand 10/350 µs</i>   | W/R 156 kJ/ohm                                      |
| Connection mode(s)   | L/N and N/PE  |
| Protection mode(s)   | Common/Differential mode                            |
| Protection level L/N<br><i>@ In (8/20µs)</i>   | Up L/N 1.5 kV                                       |
| Protection level N/PE<br><i>@ In (8/20µs)</i>  | Up N/PE 1.5 kV                                      |
| Admissible short-circuit current   | Iscrr 50 000 A                                      |
| Mechanical Characteristics   |   |
| Technology   | VG Technology (MOV+GSG)                             |
| SPD configuration  | 3-phase+Neutral                                     |
| Connection to Network  | By screw terminals: 6-35mm <sup>2</sup> / 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   |
| Weight   | 1.04 kg   |
| Disconnectors  |   |
| Thermal disconnector   | Internal  |
| Installation ground fault breaker  | Type 'S' or delayed                                 |
| Back-up protection device  | Fuse assembly: SFD1-25-31S / or Fuses Type gG 315 A |
| Standards  |   |
| Standards compliance   | IEC 61643-11 / EN 61643-11 / UL1449 ed.5            |
| Certification  | UL  |
| Part number  |   |
| 2756   |   |

