



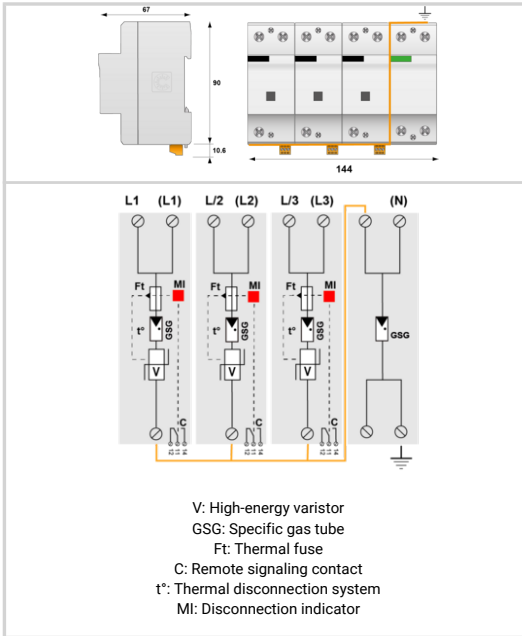
# Type 1+2+3 AC surge protector - 3-phase+N

# CITEL

## DS254VG-120/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	120/208 V 3-phase+N
AC system	TT-TNS
Nominal line voltage	Un 120 Vac
Max. AC operating voltage	Uc 150 Vac
Max. load current if series connection	IL 100 A
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
Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection	UT 1200 V/300A/200 ms withstand
Residual Current Leakage current to Ground	Ipe None
Follow current	If None
Nominal discharge current 15 x 8/20 µs impulses	In 30 kA
Max. discharge current max. withstand @ 8/20 µs by pole	I <sub>max</sub> 70 kA
Impulse current by pole max. withstand 10/350µs by pole	I <sub>imp</sub> 25 kA
Total lightning current max. total withstand @ 10/350µs	I <sub>total</sub> 100 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs	Uoc 20 kV
Withstand on overvoltages IEEE C62.41.1	20 kV
Specific energy by pole max. withstand 10/350 µs	W/R 156 kJ/ohm
Connection mode(s)	L/N and N/PE
Protection mode(s)	Common/Differential mode
Residual voltage @ I <sub>n</sub> (8/20 µs)	Up-in 0.7 kV
Protection level L/N @ I <sub>n</sub> (8/20µs)	Up L/N 1 kV
Protection level N/PE @ I <sub>n</sub> (8/20µs)	Up N/PE 1.5 kV
Admissible short-circuit current	I <sub>sc</sub> 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	0.958 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	
2757	

