



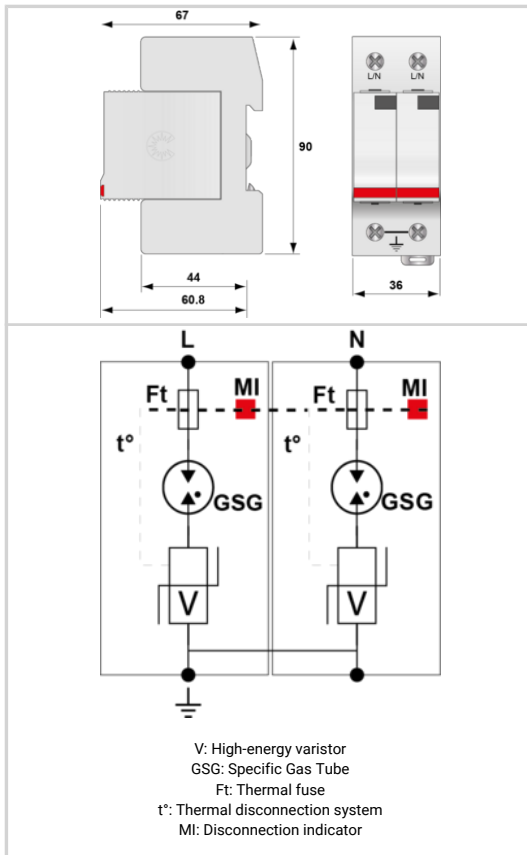
## Type 2+3 AC surge protector - single-phase

# CITEL

## DS42VG-120



- ↳ Discover our latest innovation : the [DAC50VG-20-150](#)
- ↳ Type 2 + 3 AC Multipolar surge protector
- ↳ In : 20 kA
- ↳ I<sub>max</sub> total: 80 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	IEC	2+3
Network		120 V single-phase
AC system		TN
Nominal line voltage	Un	120 Vac
Max. AC operating voltage	Uc	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	I <sub>pe</sub>	None
Leakage current to Ground		
Follow current	I <sub>f</sub>	None
Nominal discharge current 15 x 8/20 μs impulses	I <sub>n</sub>	20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub>	40 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total	80 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs	U <sub>oc</sub>	6 kV
Withstand on overvoltages IEEE C62.41.1		20 kV
Connection mode(s)		L/PE and N/PE
Protection mode(s)		Common mode
Residual voltage @ I <sub>n</sub> (8/20 μs)	U <sub>p-in</sub>	0.6 kV
Protection level L/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> L/PE	1.25 kV
Admissible short-circuit current	I <sub>scr</sub>	25 000 A
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
SPD configuration		Single 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 <sub>u</sub>	-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 DS42VGS-120 : output on changeover contact
Dimensions		See diagram
Weight		0.18 kg
Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		50 A min. - 125 A max. - Fuses Type gG
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		
Part number		
461651		

