



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

**CITEL**

**DS134VGS-120**



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Type 1 + 2 + 3 AC surge protector

In : 20 kA

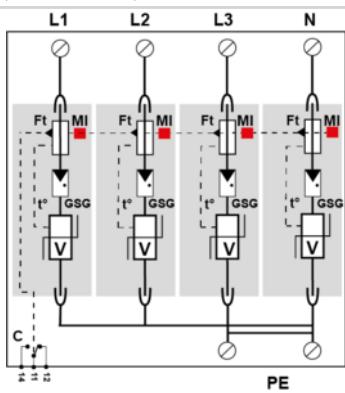
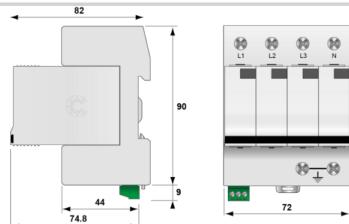
Imp total : 50 kA on 10/350μs impulse

Pluggable module

Optimized to TOV

Remote signaling

EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance



V: High-energy varistor  
GSG: Specific gas tube  
Ft: Thermal fuse  
C: Remote signaling contact  
t°: Thermal disconnection system  
MI: Disconnection indicator

## Electrical Characteristics

SPD type	1+2+3	
Network	120/208 V 3-phase+N	
AC system	TNS	
Nominal line voltage	Un	120 Vac
Max. AC operating voltage	Uc	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT	230 Vac withstand
Residual Current <i>Leakage current to Ground</i>	Ipe	None
Follow current	If	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	50 kA
Impulse current by pole <i>max. withstand 10/350μs by pole</i>	Iimp	12.5 kA
Total lightning current <i>max. total withstand @ 10/350μs</i>	Itotal	50 kA
Withstand on Combination waveform IEC 61643-11 <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 <i>max. withstand 10/350 μs</i>	W/R	40 kJ/ohm
Connection mode(s)	L/PE and N/PE	
Protection mode(s)	Common mode	
Residual voltage <i>@ In (8/20 μs)</i>	Up-in	0.4 kV
Protection level N/PE <i>@ In (8/20μs)</i>	Up N/PE	1.25 kV
Protection level L/PE <i>@ In (8/20μs)</i>	Up L/PE	1.25 kV
Admissible short-circuit current	Isccr	25 000 A

## Mechanical Characteristics

Technology	VG Technology (MOV+GG)	
SPD configuration	3-phase+Neutral	
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	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	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	
Certification	UL Recognized	
Part number	571674	

