



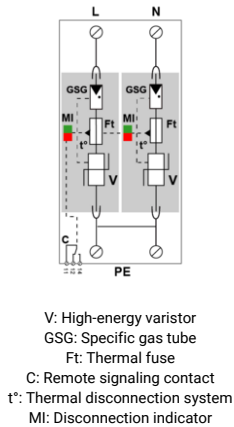
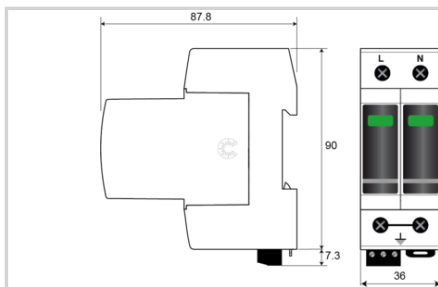
## Type 1+2 AC surge protector - Single Phase

# CITEL

## DAC1-13VGS-20-150



- Type 1 + 2 + 3 AC surge protector
- VG Technology
- $I_n$  : 20 kA
- $I_{imp}$  : 12,5 kA on 10/350 $\mu$ s impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance
- Certified NF EN 61643-11 and IEC 61643-11



### Electrical Characteristics

SPD type		1+2+3
Network		120 V single-phase
AC system		TN
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	$I_{max}$	50 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total	100 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	$I_{imp}$	12.5 kA
Total lightning current max. total withstand @ 10/350 $\mu$ s	$I_{total}$	25 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s	$U_{oc}$	6 kV
Specific energy by pole max. withstand 10/350 $\mu$ s	W/R	40 kJ/ohm
Protection mode(s)		L/PE and N/PE
Protection level L/PE @ $I_n$ (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	L/PE	1.5 kV
Protection level N/PE @ $I_n$ (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	Up N/PE	1.5 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	0.4 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	0.4 kV
Admissible short-circuit current	$I_{sc}$	50 000 A

### Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
SPD configuration		Single phase
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> rigid)
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 - Red/Green
Spare module(s)		MDAC1-13VG-150
Remote signaling of disconnection		output on changeover contact
Wiring for remote signaling		1.5 mm <sup>2</sup> max.
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 2TE (EN43880)
Weight		0.285 kg

### Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		Fuse assembly: SFD1-13S-20 / or 125 A min. - 315 A max. - Fuses Type gG

**DAC1-13VGS-20-150**

<b>Standards</b>	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	KEMA
<b>Part number</b>	
821730122	