

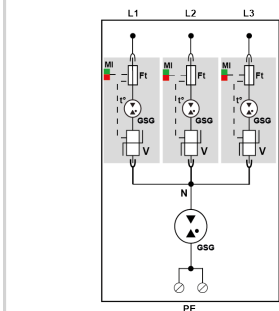
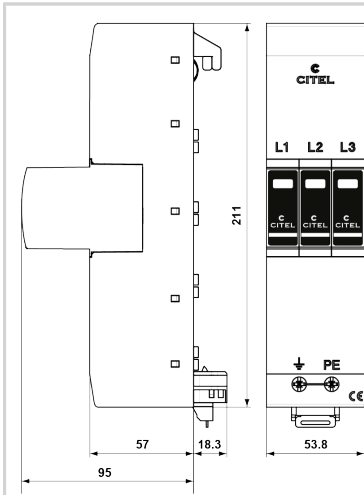


CITEL

ZPAC1-13VG-31-275



- ▶ Type 1+2+3 combined SPD based on a gas-filled spark gap
- ▶ 10-year guarantee
- ▶ Discharge capacity per pole:  $I_{imp} = 12.5 \text{ kA}$  (10/350  $\mu\text{s}$ )
- ▶ Safe disconnecting device
- ▶ Operating and leakage current-free
- ▶ Can be used for lightning protection classes III + IV
- ▶ Cost-effective maintenance thanks to individual plug-in modules
- ▶ Complies with the IEC 61643-11 and EN 61643-11 standards
- ▶ Complies with VDE-AR-N 4100 "Use of surge protective devices (SPD) type 1 in main power supply systems"



Electrical Characteristics		
SPD type	IEC	1+2+3
Network		230/400 V
AC system		TT-TNS
Nominal line voltage	Un	230/400 Vac
Max. AC operating voltage	Uc	275 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	440 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	I <sub>pe</sub>	None
Follow current	I <sub>f</sub>	None
Nominal discharge current 15 x 8/20 $\mu\text{s}$ impulses	I <sub>n</sub>	20 kA
Max. discharge current max. withstand @ 8/20 $\mu\text{s}$ by pole	I <sub>max</sub>	50 kA
Impulse current by pole max. withstand 10/350 $\mu\text{s}$ by pole	I <sub>imp</sub>	12.5 kA
Total lightning current max. total withstand @ 10/350 $\mu\text{s}$	I <sub>total</sub>	50 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu\text{s}$ - 8/20 $\mu\text{s}$	U <sub>oc</sub>	6 kV
Withstand on overvoltages IEEE C62.41.1		20 kV
Specific energy by pole max. withstand 10/350 $\mu\text{s}$	W/R	40 kJ/ohm
Connection mode(s)		L/N and N/PE
Protection mode(s)		Common/Differential mode
Protection level L/N @ I <sub>n</sub> (8/20 $\mu\text{s}$ )	U <sub>p</sub> L/N	1.5 kV
Protection level L/PE @ I <sub>n</sub> (8/20 $\mu\text{s}$ )	U <sub>p</sub> L/PE	1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20 $\mu\text{s}$ )	U <sub>p-5kA</sub>	0.7 kV
Admissible short-circuit current	I <sub>scrr</sub>	50 000 A
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
SPD configuration		3-phase+Neutral
Connection to Network		By 40mm busbar and wire for PE: 6-35mm <sup>2</sup> (50mm <sup>2</sup> )
Format		Plug-in modular box
Mounting		40 mm busbar systems
Housing material		Thermoplastic UL94 V-0
Operating temperature	T <sub>u</sub>	-40/+85°C
Protection rating		IP20



# CITEL

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

### ZPAC1-13VG-31-275

Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole
Spare module(s)		ZMDAC1-13VG-275
Remote signaling of disconnection		none
Dimensions		See diagram
<b>Disconnectors</b>		
Thermal disconnecter		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		max. 315 A (gL/gG)
<b>Standards</b>		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 5ed.
Certification		KEMA
<b>Part number</b>		
<b>64004</b>		

