



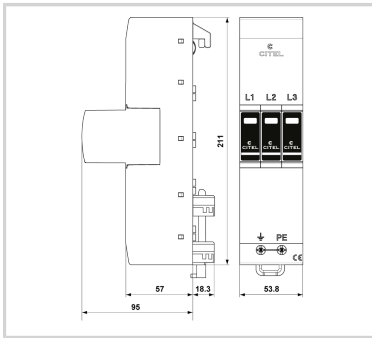
# Type 1+2+3 AC surge protector - 3-phase

## ZPAC1-13VG-30-275

# CITEL



- 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 3-phase
AC system		TNC
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
Residual Current	Ipe	None
Leakage current to Ground		
Follow current	If	None
Nominal discharge current 15 x 8/20 $\mu\text{s}$ impulses	In	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>	37.5 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu\text{s}$ - 8/20 $\mu\text{s}$	Uoc	6 kV
Specific energy by pole max. withstand 10/350 $\mu\text{s}$	W/R	40 kJ/ohm
Protection mode(s)		L/PE
Protection level L/PE @ In (8/20 $\mu\text{s}$ )	Up L/PE	1.5 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu\text{s}$ )	Up-5kA	0.9 kV
Admissible short-circuit current	I <sub>scrr</sub>	50 000 A
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
SPD configuration		3-phase
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	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole
Spare module(s)		MDAC1-13VG-275
Remote signaling of disconnection		none
Dimensions		See diagram
Disconnectors		



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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>64215</b>		

