

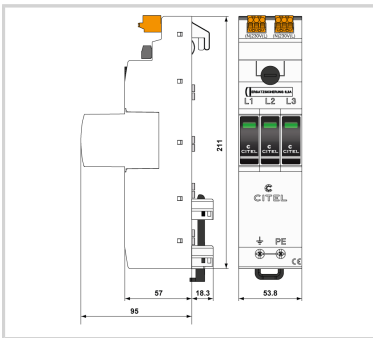


CITEL

ZPAC1-13VG-PRO-U-TNC



- 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 μs)
- Operating and leakage current-free
- Individually pluggable protection modules: sustainable solution, cost-effective maintenance
- Complies with the IEC 61643-11 and EN 61643-11 standards
- VDE-AR-N 4100 compliant "Use of surge protective devices (SPD) type 1 in main power supply systems"
- Dual voltage tap for RFZ and APZ (incl. fuse)



Electrical Characteristics			
SPD type	IEC		1+2+3
Network			230/400V
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 Leakage current to Ground	Ipe		None
Follow current	If		None
Nominal discharge current 15 x 8/20 μs impulses	In		20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I _{max}		50 kA
Impulse current by pole max. withstand 10/350 μs by pole	I _{imp}		12.5 kA
Total lightning current max. total withstand @ 10/350 μs	I _{total}		37.5 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 μs - 8/20 μs	Uoc		6 kV
Specific energy by pole max. withstand 10/350 μs	W/R		40 kJ/ohm
Protection mode(s)			L/PE
Protection level L/PE @ In (8/20 μs)	Up L/PE		1.5 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 μs)	Up-5kA		0.9 kV
Admissible short-circuit current	I _{scrr}		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 ² (50mm ²)
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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Type 1+2+3 AC surge protector - 3-phase

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Thermal disconnecter		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		max. 315 A (gL/gG)
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 5ed.
Certification		KEMA
Part number		
64219		

