



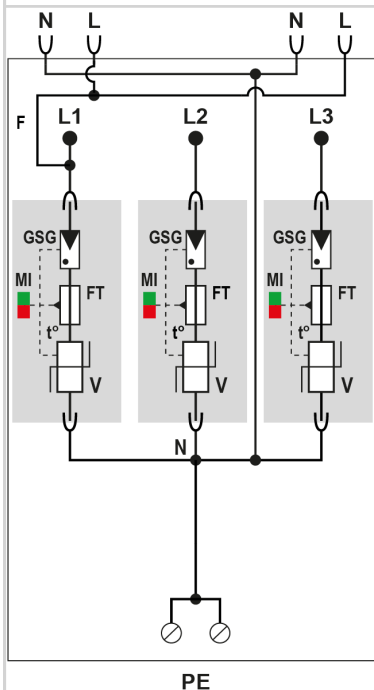
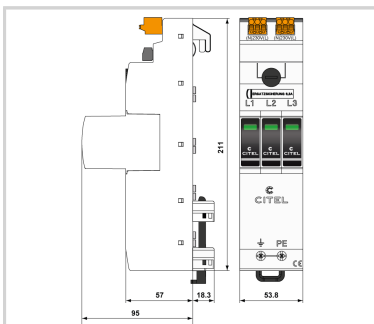
CITEL

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

ZPAC1-8VG-PRO-U-TNC



- Type 1+2+3 combined SPD based on a gas-filled spark gap
- 10-year guarantee
- Discharge capacity per pole: $I_{imp} = 8 \text{ kA}$ (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. <i>Without disconnection</i>	UT	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT	440 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>	I _{max}	50 kA
Impulse current by pole <i>max. withstand 10/350μs by pole</i>	I _{imp}	8 kA
Total lightning current <i>max. total withstand @ 10/350μs</i>	I _{total}	24 kA
Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i>	Uoc	6 kV
Specific energy by pole <i>max. withstand 10/350 μs</i>	W/R	16 kJ/ohm
Protection mode(s)		L/PE
Protection level L/PE <i>@ In (8/20μs)</i>	Up L/PE	1.5 kV
Residual voltage L/PE at 5 kA <i>@ 5 kA (8/20μs)</i>	Up-5kA	0.9 kV
Admissible short-circuit current	I _{sc}	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)		MDAC1-8VG-275
Remote signaling of disconnection		none
Dimensions		See diagram
Weight		0.677 kg



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Disconnectors		
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		
64218		

