



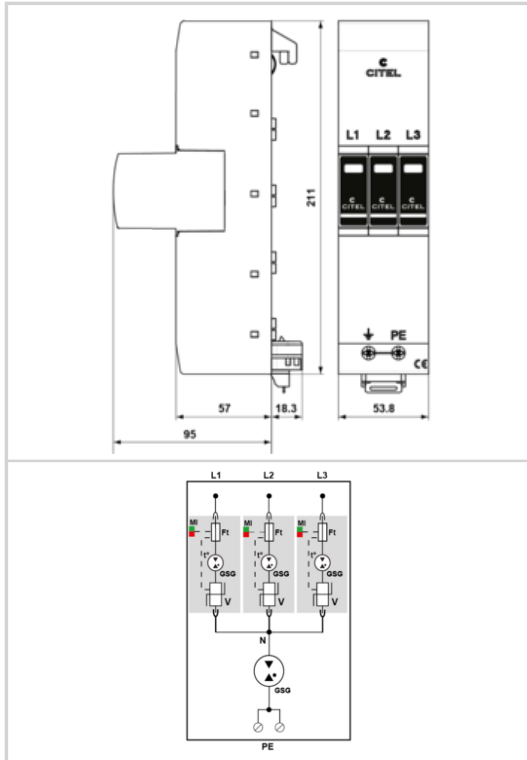
## Type 1+2+3 AC surge protector - 3-phase+N

# CITEL

## ZPAC1-13VG-31-275



- Type 1+2+3 AC Surge protection
- VG Technology
- For 40 mm busbar systems
- Iimp 8 kA (10/350 μs)
- Reduces energy costs: Does not produce flow current and leakage current
- Certified IEC 61643-11 and EN 61643-11



Electrical Characteristics	
SPD type	1+2+3
Network	230/400 V 3-phase+N
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	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	Imax 50 kA
Impulse current by pole max. withstand 10/350 μs by pole	Iimp 12.5 kA
Total lightning current max. total withstand @ 10/350 μs	Itotal 50 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 μs - 8/20 μs	Uoc 6 kV
Withstand on overvoltages IEEE C62.41.1	20 kV
Specific energy by pole max. withstand 10/350 μs	W/R 40 kJ/ohm
Connection mode(s)	L/N and N/PE
Protection mode(s)	Common/Differential mode
Protection level L/N @ In (8/20 μs)	Up L/N 1.5 kV
Protection level L/PE @ In (8/20 μs)	Up L/PE 1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20 μs)	Up-5kA 0.7 kV
Admissible short-circuit current	Iscrc 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	Tu -40/+85°C
Protection rating	IP20
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
Weight	0.7401 kg
Disconnectors	
Thermal disconnector	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 4ed.
Certification	KEMA

Part number

64004