

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: limp= 12,5 kA (10/350 μs)
- Operating and leakage current-free
- ▸ Individually pluggable protection modules: sustainable solution, costeffective 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)





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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 Leakage current to Ground	lpe	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	lmax	50 kA
Impulse current by pole max. withstand 10/350µs by pole	limp	12.5 kA
Total lightning current max. total withstand @ 10/350µs	Itotal	37.5 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs	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 (8/20µs)	Up L/PE	1.5 kV
Desideral colleges I /DC at C I/A		
Residual voltage L/PE at 5 kA @ 5 kA (8/20µs)	Up-5kA	0.9 kV
	Up-5kA Isccr	0.9 kV 50 000 A
@ 5 kA (8/20μs)	<u> </u>	
@ 5 kA (8/20µs) Admissible short-circuit current	<u> </u>	
@ 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics	<u> </u>	50 000 A
@ 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology	<u> </u>	50 000 A VG Technology (MOV+GSG)
@ 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology SPD configuration	<u> </u>	50 000 A VG Technology (MOV+GSG) 3-phase
@ 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology SPD configuration Connection to Network	<u> </u>	50 000 A VG Technology (MOV+GSG) 3-phase By 40mm busbar and wire for PE: 6-35mm² (50mm²)
@ 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology SPD configuration Connection to Network Format	<u> </u>	50 000 A VG Technology (MOV+GSG) 3-phase By 40mm busbar and wire for PE: 6-35mm² (50mm²) Plug-in modular box
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© 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology SPD configuration Connection to Network Format Mounting Housing material Operating temperature	Iscor	VG Technology (MOV+GSG) 3-phase By 40mm busbar and wire for PE: 6-35mm² (50mm²) Plug-in modular box 40 mm busbar systems Thermoplastic UL94 V-0 -40/+85°C
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© 5 kA (8/20µs) Admissible short-circuit current Mechanical Characteristics Technology SPD configuration Connection to Network Format Mounting Housing material Operating temperature Protection rating Failsafe mode	Iscor	VG Technology (MOV+GSG) 3-phase By 40mm busbar and wire for PE: 6-35mm² (50mm²) Plug-in modular box 40 mm busbar systems Thermoplastic UL94 V-0 -40/+85°C IP20 Disconnection from AC network
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