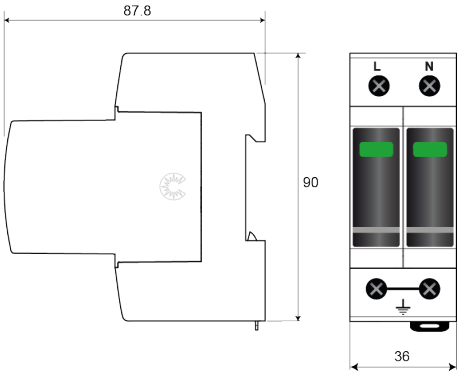
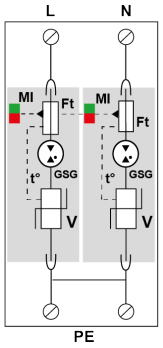


DAC1-13VG-20-275

- Type 1 + 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- Iimp : 12,5 kA on 10/350µs impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling (option)
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.4 compliance

Electrical Characteristics		
SPD type		1+2+3
Network		230 V single-phase
AC system		TN
Max. AC operating voltage L-N	*Uc*	275 Vac
Temporary Over Voltage (TOV) Charasteristics - 5 sec. *Without disconnection*	*UT*	335 Vac withstand
Temporary Over Voltage (TOV) Charasteristics - 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*	*Imax*	50 kA
Total Maximal discharge current *max. total withstand @ 8/20 µs*	*Imax Total*	100 kA
Impulse current by pole *max. withstand 10/350µs by pole*	*Iimp*	12.5 kA
Total lightning current *max. total withstand @ 10/350µs*	*Itotal*	25 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 and N/PE
Protection level N/PE *@ In (8/20µs)*	*Up N/PE*	1.5 kV
Protection level L/PE *@ In (8/20µs)*	*Up L/PE*	1.5 kV
Protection level N/PE at 5 kA *@ 5 kA (8/20µs)*	*Up-5kA*	0.7 kV
Residual voltage L/PE at 5 kA *@ 5 kA (8/20µs)*	*Up-5kA*	0.7 kV
Admissible short-circuit current	*Isccr*	50 000 A





V: High-energy varistor
GSG: Specific Gas Tube
Ft: Thermal fuse
t°: Thermal disconnection system
MI: Disconnection indicator

Mechanical Characteristics		
Technology		VG
SPD configuration		Single phase
Connection to Network		By screw terminals: 2.5-25 mm² (35 mm² rigid)
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN60715)
Housing material		Thermoplastic UL94-V0
Operating temperature		-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDAC1-13VG-275
Remote signaling of disconnection		option DAC1-13VGS-20-275: output on changeover contact
Wiring for remote signaling		1.5 mm² max.
Maw. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 2TE (EN43880)

Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Fuses		125 A min. - 315 A max. - Fuses Type gG

Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 4ed.
Certification		IEC 61463-11 / EN 61643-11

Part Number	821730212