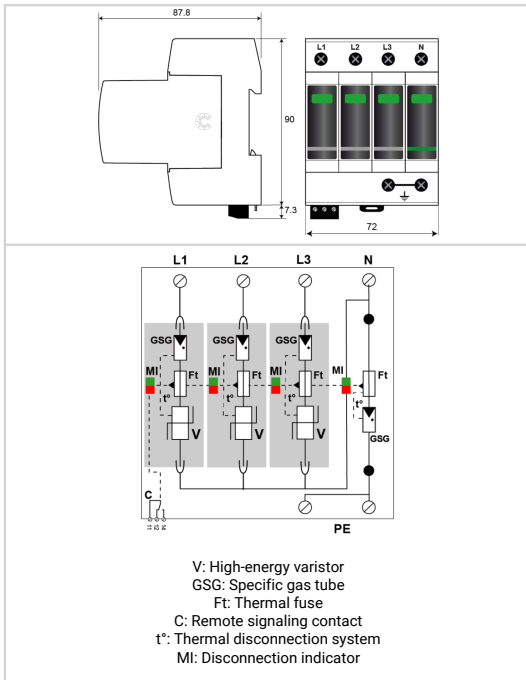


DAC1-13VGS-31-320



- ✦ 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
- ✦ Optimized to TOV
- ✦ EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance
- ✦ Certified EN 61643-11 and IEC 61643-11



Electrical Characteristics			
SPD type	IEC	1+2+3	
Network		230/400 V 3-phase+N	
AC system		TT-TNS	
Max. AC operating voltage	Uc	320 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	I <sub>max</sub>	50 kA	
Total Maximum discharge current max. total withstand @ 8/20 µs	I <sub>max</sub> Total	100 kA	
Impulse current by pole max. withstand 10/350µs by pole	I <sub>imp</sub>	12.5 kA	
Impulse current N/PE max. withstand 10/350µs	I <sub>imp</sub> N/PE	50 kA	
Total lightning current max. total withstand @ 10/350µs	I <sub>total</sub>	50 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/N and N/PE	
Protection level @ In (8/20µs) and @ 6 kV (1,2/50 µs)	Up L/N	1.5 kV	
Protection level N/PE @ In (8/20µs) and @ 6 kV (1,2/50 µs)	Up N/PE	1.5 kV	
Residual voltage L/N at 5 kA @ 5 kA (8/20µs)	Up-5kA	0.9 kV	
Protection level N/PE at 5 kA @ 5 kA (8/20µs)	Up-5kA	0.9 kV	
Admissible short-circuit current	I <sub>sc</sub>	50 000 A	
Mechanical Characteristics			
Technology		VG Technology (MOV+GSG)	
SPD configuration		3-phase+Neutral	
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> rigid)	
Format		Plug-in modular box	
Mounting		Symmetrical rail 35 mm (EN 60715)	
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 - Red/Green	
Spare module(s)		MDAC1-13VG-320 + MDAC1-50G-xxx	
Remote signaling of disconnection		output on changeover contact	
Wiring for remote signaling		1.5 mm <sup>2</sup> max.	
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)	
Dimensions		See diagram - 4TE (EN43880)	
Disconnectors			
Thermal disconnector		Internal	
Installation ground fault breaker		Type 'S' or delayed	
Back-up protection device		Fuse assembly: SFD1-13S-31 /or 125 A min. - 315 A max. - Fuses Type gG	
Standards			
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5	

DAC1-13VGS-31-320

Certification	KEMA
Part number	
821730344	