



DAC1-13VGS-10

DAC1-13VGS SERIES



- VG Technology
- In: 20 kA
- limp: 12.5 kA
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance

Characteristics

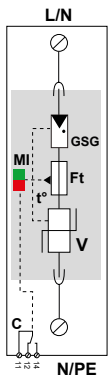
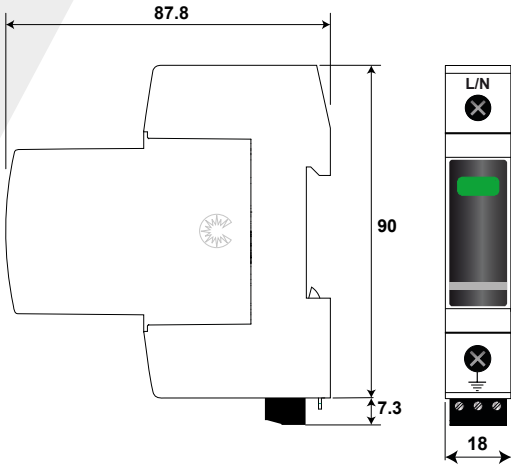
CITEL Model		DAC1-13VGS-10-320	DAC1-13VGS-10-275	DAC1-13VGS-10-150
Description		Type 1+2+3 AC surge protector - 1-pole - pluggable		
Max. AC operating voltage	Uc	320 Vac	275 Vac	150 Vac
Temporary Over Voltage (TOV) characteristic - 5 sec.	UT	335 Vac withstand	335 Vac withstand	180 Vac withstand
Temporary Over Voltage (TOV) characteristic - 120 mn	UT	440 Vac withstand	440 Vac withstand	230 Vac withstand
Residual current - Leakage current at Uc	Ipe	None	None	None
Follow current	If	None	None	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	20 kA	20 kA	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	50 kA	50 kA	50 kA
Impulse current by pole <i>max. withstand 10/350 μs</i>	limp	12.5 kA	12.5 kA	12.5 kA
Specific energy by pole	W/R	40 kJ/ohm	40 kJ/ohm	40 kJ/ohm
Withstand on Combination waveform <i>Class III test</i>	Uoc	6 kV	6 kV	6 kV
Protection level <i>@ In (8/20 μs) and 6 kV (1.2/50 μs)</i>	Up	1.5 kV	1.5 kV	1.5 kV
Residual Voltage <i>@ 5 kA (8/20 μs)</i>	Up-5kA	0.9 kV	0.7 kV	0.4 kV
Admissible short-circuit current	Isc cr	50 000 A	50 000 A	50 000 A

Associated disconnectors	
Thermal disconnector	Internal
Fuses	125 A min. - 315 A max. - gG type / or CITEL SFD-13
Existing upstream ground fault breaker (if any)	Type «S» or delayed

Mechanical characteristics	
Dimensions	see diagram - 1 TE (DIN43880)
Connection to Network	By screw terminals: 2.5-25 mm ² (35mm ² rigid)
Failsafe Mode	Disconnection from AC network
Disconnection indicator	1 mechanical indicator Green/Red
Max. voltage/current for remote signaling	250 V/0.5 A (AC) / 30 V/3 A (DC)
Wiring for remote signaling	1.5 mm ² max.
Mounting	Symmetrical rail 35 mm (EN60715)
Operating temperature	-40/+85°C
Protection rating	IP20
Housing material	Thermoplastic UL94 V-0
Spare unit	MDAC1-13VG-320 MDAC1-13VG-275 MDAC1-13VG-150

Standards	
Certification	KEMA
Compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5

Part number	
	821730321 821730221 821730121



V: High energy varistor
 GSG: Specific gas Tube
 MI: Disconnection indicator
 Ft: Thermal fuse
 t°: Thermal disconnection system
 C: Contact for remote signal

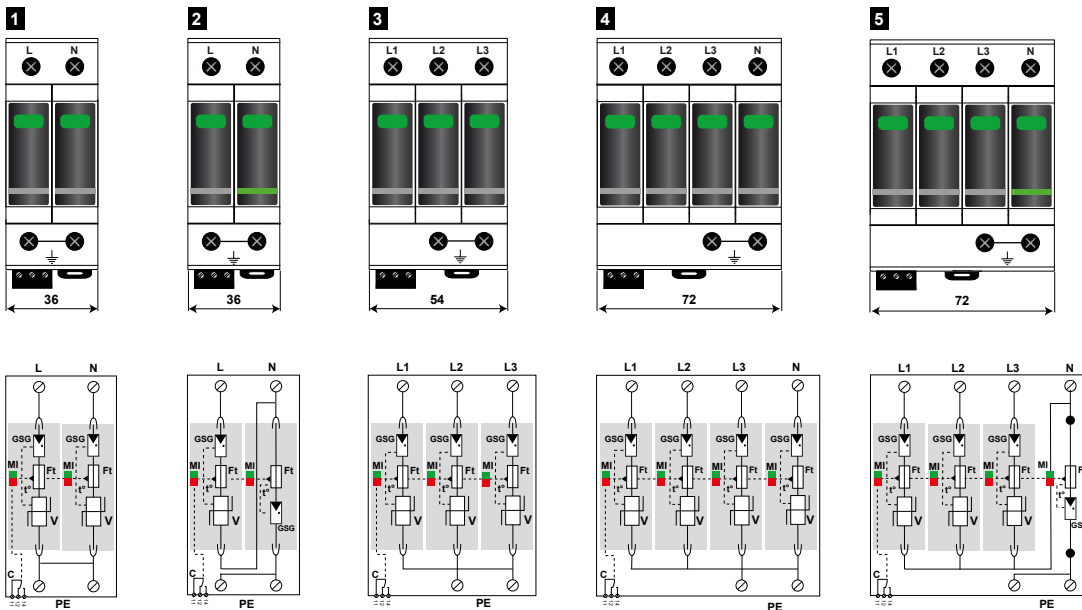
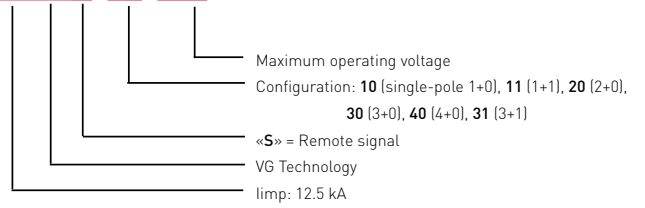
TYPE 1 + 2 + 3 AC MULTIPOLAR SURGE PROTECTOR

DAC1-13VGS-11, DAC1-13VGS-20, DAC1-13VGS-30, DAC1-13VGS-31, DAC1-13VGS-40



DAC1-13VGS-31

DAC1-13VGS-xx-xxx



Model	P/N	Network	AC system	Protection Mode	I _{total}	U _p L/PE	U _p L/N	U _p N/PE	Dimension DIN43880	Diagram
DAC1-13VGS-31-320	821730344	230/400 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	1.5 kV	1.5 kV	4 TE	5
DAC1-13VGS-31-275	821730244	230/400 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	1.5 kV	1.5 kV	4 TE	
DAC1-13VGS-31-150	821730144	120/208 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	1.5 kV	1.5 kV	4 TE	
DAC1-13VGS-40-320	821730324	230/400 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.5 kV	-	1.5 kV	4 TE	4
DAC1-13VGS-40-275	871730224	230/400 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.5 kV	-	1.5 kV	4 TE	
DAC1-13VGS-40-150	821730124	120/208 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.5 kV	-	1.5 kV	4 TE	
DAC1-13VGS-30-320	821730323	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.5 kV	-	-	3 TE	3
DAC1-13VGS-30-275	821730223	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.5 kV	-	-	3 TE	
DAC1-13VGS-30-150	821730123	120/208 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.5 kV	-	-	3 TE	
DAC1-13VGS-11-320	821730342	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.5 kV	1.5 kV	2 TE	2
DAC1-13VGS-11-275	821730242	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.5 kV	1.5 kV	2 TE	
DAC1-13VGS-11-150	821730142	120 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.5 kV	1.5 kV	2 TE	
DAC1-13VGS-20-320	821730322	230 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	1.5 kV	-	1.5 kV	2 TE	1
DAC1-13VGS-20-275	821730222	230 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	1.5 kV	-	1.5 kV	2 TE	
DAC1-13VGS-20-150	821730122	120 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	1.5 kV	-	1.5 kV	2 TE	