

TYPE 1+2 AC SURGE PROTECTOR

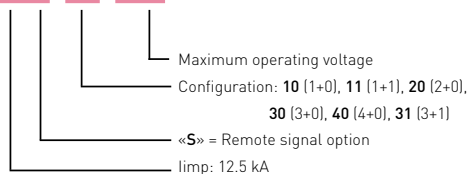
# DAC1-13 SERIES



DAC1-13S-10

- In : 20 kA
- limp : 12,5 kA
- Pluggable module for each phase
- Remote signaling (option)
- EN 61643-11, IEC 61643-11 certified
- UL 1449 ed.4 compliance

DAC1-13S-xx-xxx



## Characteristics

CITEL Model		DAC1-13-10-440	DAC1-13-10-320	DAC1-13-10-275	DAC1-13-10-150
Description		1+2 AC surge protector - 1-pole			
Max. AC operating voltage	Uc	440 Vac	320 Vac	275 Vac	150 Vac
Temporary Over Voltage (TOV) Characteristic - 5 sec.	UT	580 Vac withstand	335 Vac withstand	335 Vac withstand	180 Vac withstand
Temporary Over Voltage (TOV) Characteristic - 120 mn	UT	770 Vac disconnection	440 Vac disconnection	440 Vac disconnection	230 Vac disconnection
Residual current <i>Leakage current at Uc</i>	Ipe	< 1 mA	< 1 mA	< 1 mA	< 1 mA
Follow current	If	None	None	None	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	20 kA	20 kA	20 kA	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I <sub>max</sub>	50 kA	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	12.5 kA
Specific energy by pole	W/R	40 kJ/ohm	40 kJ/ohm	40 kJ/ohm	40 kJ/ohm
Protection level @ In (8/20 μs)	Up	1.7 kV	1.6 kV	1.3 kV	0.9 kV
Residual volatage @ 5kA (8/20 μs)	Up-5kA	1.5 kV	1.2 kV	1 kV	0.6 kV
Admissible short-circuit current	I <sub>sc</sub>	50 000 A	50 000 A	50 000 A	50 000 A

### Associated disconnectors

Thermal disconnector	internal
Fuses	125 A min. - 315 A max. - gG type
Existing upstream ground fault breaker (if any)	Type "S" or delayed

### Mechanical characteristics

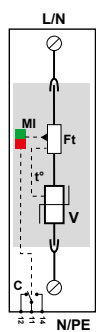
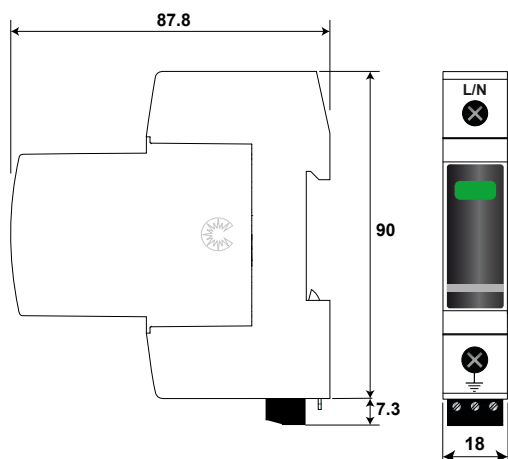
Dimensions	see diagram, 1TE, EN 43880			
Connection to Network	By screw terminals: 2.5-25 mm <sup>2</sup> (35mm <sup>2</sup> rigid)			
Failsafe mode	Disconnection from AC network			
Disconnection indicator	1 mechanical indicator Green/Red			
Remote signaling of disconnection output on changeover contact	option	option	Option	option
Max. voltage/current for remote signaling	DAC1-13S-10-440	DAC1-13S-10-320	DAC1-13S-10-275	DAC1-13S-10-150
Wiring for remote signaling	250 V/0.5 A (AC) / 30 V/2 A (DC)			
Mounting	Symmetrical rail 35 mm (EN60715)			
Operating temperature	-40/+85°C			
Protection rating	IP20			
Housing material	Thermoplastic UL94-V0			
Spare unit	MDAC1-13-440	MDAC1-13-320	MDAC1-13-275	MDAC1-13-150

### Standards

Certification	EN 61643-11, IEC 61643-11
Compliance	UL1449 ed.4

### Part number

	821710411	821710311	821710211	821710111
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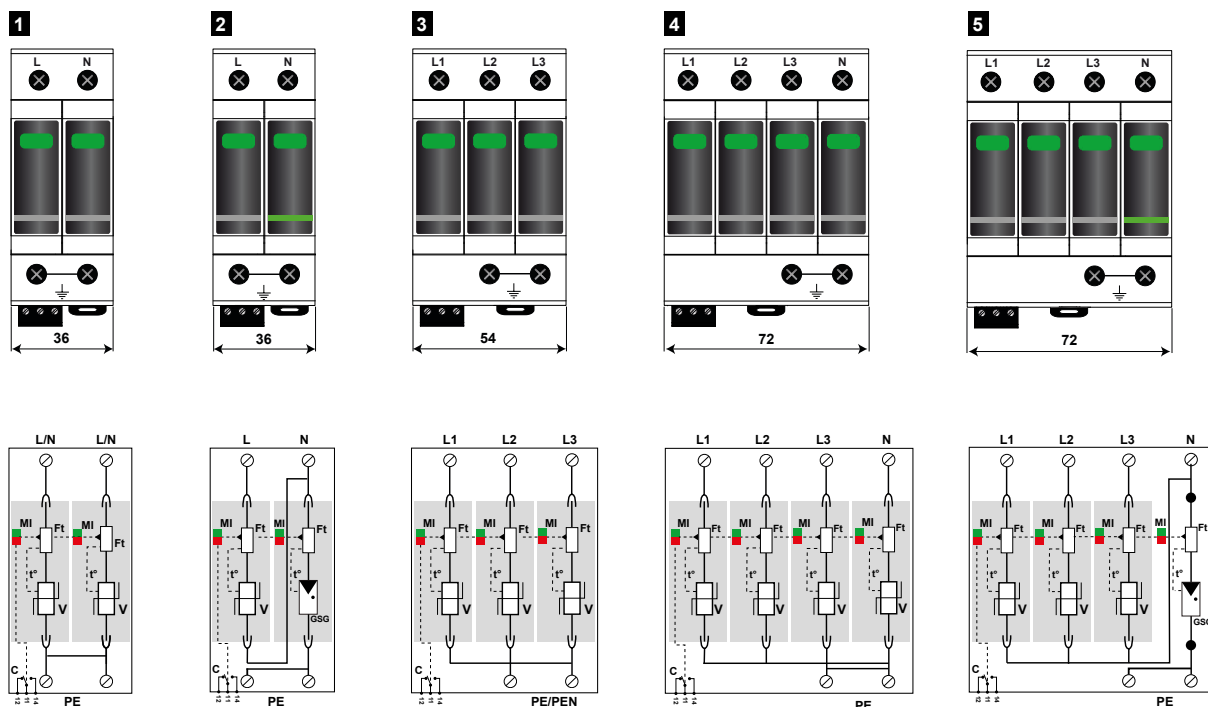
V: High energy varistor  
MI: Disconnection indicator  
Ft: Thermal fuse  
t°: Thermal disconnection system  
C: Contact for remote signal





DAC1-13S-31

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



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

Model	P/N	Network	AC system	Protection Mode	I <sub>total</sub>	Up L/PE	Up L/N	Up N/PE	Dimension EN43880	Diagram
DAC1-13-31-320	821710334	230/400 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	1.6 kV	1.5 kV	4 TE	5
DAC1-13-31-275	821710234	230/400 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	1.3 kV	1.5 kV	4 TE	
DAC1-13-31-150	821710134	120/208 V 3-Phase+N	TT-TNS System (3+1)	L/N and N/PE	50 kA	-	0.9 kV	1.5 kV	4 TE	
DAC1-13-40-440	821710414	230/400 V 3-Phase+N	IT System (4+0)	L/PE and N/PE	50 kA	1.7 kV	-	1.7 kV	4 TE	4
DAC1-13-40-320	821710314	230/400 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.6 kV	-	1.3 kV	4 TE	
DAC1-13-40-275	821710214	230/400 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.3 kV	-	1.3 kV	4 TE	
DAC1-13-40-150	821710114	120/208 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	0.9 kV	-	0.9 kV	4 TE	3
DAC1-13-30-440	821710413	230/400 V 3-Phase	IT System (3+0)	L/PE	37.5 kA	1.7 kV	-	-	3 TE	
DAC1-13-30-320	821710313	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.6 kV	-	-	3 TE	
DAC1-13-30-275	821710213	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.3 kV	-	-	3 TE	2
DAC1-13-30-150	821710113	120/208 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	0.9 kV	-	-	3 TE	
DAC1-13-11-320	821710332	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.6 kV	1.5 kV	2 TE	
DAC1-13-11-275	821710232	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.3 kV	1.5 kV	2 TE	1
DAC1-13-11-150	821710132	120 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	0.9 kV	1.5 kV	2 TE	
DAC1-13-20-440	821710412	230 V single phase	IT System (2+0)	L/PE and N/PE	25 kA	1.7 kV	-	1.7 kV	2 TE	
DAC1-13-20-320	821710312	230 V single phase	TN System(2+0)	L/PE and N/PE	25 kA	1.6 kV	-	1.6 kV	2 TE	
DAC1-13-20-275	821710212	230 V single phase	TN System(2+0)	L/PE and N/PE	25 kA	1.3 kV	-	1.3 kV	2 TE	
DAC1-13-20-150	821710112	120 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	0.9 kV	-	0.9 kV	2 TE	