



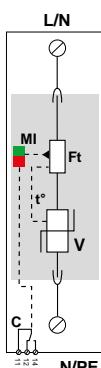
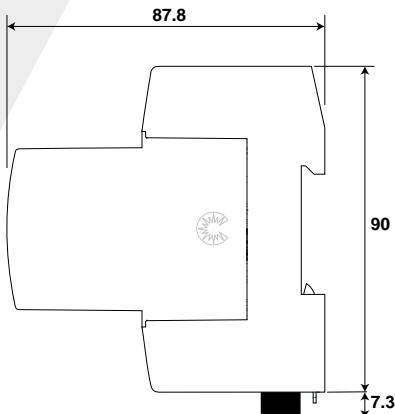
DAC1-13S-10

DAC1-13 SERIES

- Type 1 + 2 AC power surge protector
- In: 20 kA
- Iimp: 12.5 kA
- Pluggable module for each phase
- Remote signaling (option)
- EN 61643-11, IEC 61643-11 certified
- UL 1449 ed.4 compliance



Characteristics



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

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 - pluggable			
Max. AC operating voltage	Uc	440 Vac	320 Vac	275 Vac
Temporary Over Voltage (TOV) Characteristic - 5 sec.	UT	580 Vac withstand	335 Vac withstand	335 Vac withstand
Temporary Over Voltage (TOV) Characteristic -120 mn	UT	770 Vac disconnection	440 Vac disconnection	440 Vac disconnection
Residual current Leakage current at Uc	Ipe	< 1 mA	< 1 mA	< 1 mA
Follow current	If	None	None	None
Nominal discharge current $15 \times 8/20 \mu\text{s}$ impulses	In	20 kA	20 kA	20 kA
Max. discharge current max. withstand @ $8/20 \mu\text{s}$ by pole	Imax	50 kA	50 kA	50 kA
Impulse current by pole max. withstand $10/350\mu\text{s}$	Iimp	12.5 kA	12.5 kA	12.5 kA
Specific energy by pole	W/R	40 kJ/ohm	40 kJ/ohm	40 kJ/ohm
Protection level @ In ($8/20\mu\text{s}$)	Up	1.7 kV	1.6 kV	1.3 kV
Residual voltage @ $5kA$ ($8/20\mu\text{s}$)	Up-5kA	1.5 kV	1.2 kV	1 kV
Admissible short-circuit current	Isccr	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, 1TE, EN 43880			
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			
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/3 A [DC]			
Mounting	max 1.5 mm ²			
Operating temperature	Symmetrical rail 35 mm (EN60715)			
Protection rating	-40/+85°C			
Housing material	IP20			
Spare unit	MDAC1-13-440	MDAC1-13-320	MDAC1-13-275	MDAC1-13-150
Standards				
Certification	KEMA / IEC			
Compliance	IEC 61643-11 / NF EN 61643-11 / UL1449 ed.4			
Part number				
	821710411	821710311	821710211	821710111

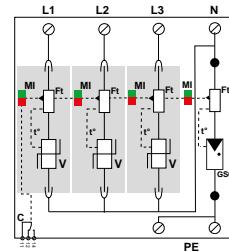
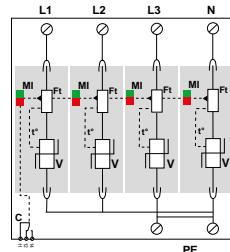
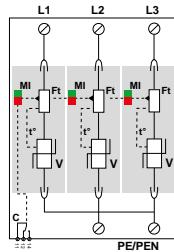
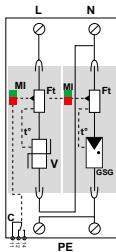
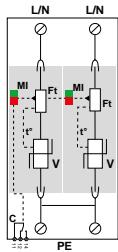
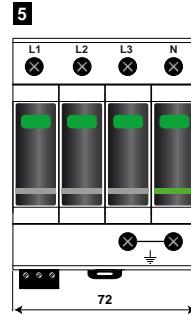
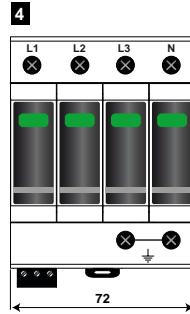
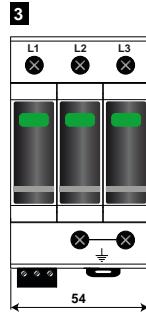
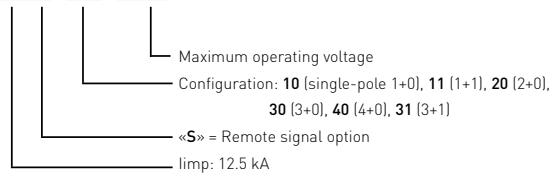
TYPE 1 + 2 AC MULTIPOLAR SURGE PROTECTOR

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



DAC1-13S-20

DAC1-13S-xx-xxx



V: High energy MOV
GSG: Specific gas tube
Mi: Disconnection indicator
Ft: Thermal fuse
t°: Thermal disconnection mechanism
C: Contact for remote signal

Model	P/N	Network	AC system	Protection Mode	I _{total}	Up L/PE	Up L/N	Up N/PE	Dimension DIN43880	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	4
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	
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	-	1.6 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	
DAC1-13-30-440	821710413	230/400 V 3-Phase	IT System (3+0)	L/PE	37.5 kA	1.7 kV	-	-	3 TE	3
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	
DAC1-13-30-150	821710113	120/208 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	0.9 kV	-	-	3 TE	2
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	
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	1
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	230 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	0.9 kV	-	0.9 kV	2 TE	