



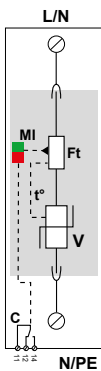
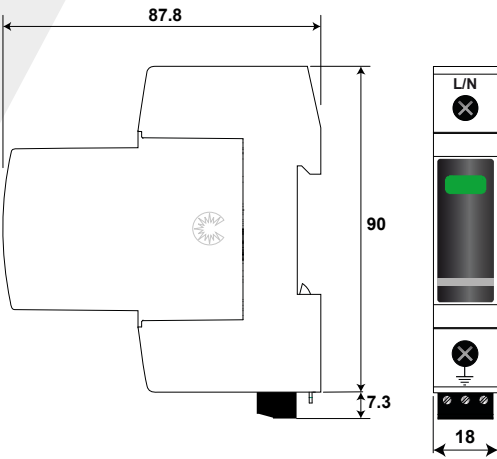
DAC1-13S-10

DAC1-13S SERIES



- Type 1 + 2 AC power surge protector
- In: 20 kA
- limp: 12.5 kA
- Pluggable module for each phase
- Remote signaling
- 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		DAC1-13S-10-440	DAC1-13S-10-320	DAC1-13S-10-275	DAC1-13S-10-150
Description		1+2 AC surge protector - 1-pole - pluggable			
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 Leakage current at Uc	Ipe	< 1 mA	< 1 mA	< 1 mA	< 1 mA
Follow current	If	None	None	None	None
Nominal discharge current 15 x 8/20 μs impulses	In	20 kA	20 kA	20 kA	20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I _{max}	50 kA	50 kA	50 kA	50 kA
Impulse current by pole max. withstand 10/350 μs	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 voltage @ 5kA (8/20 μs)	Up-5kA	1.5 kV	1.2 kV	1 kV	0.6 kV
Admissible short-circuit current	Iscsr	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 / or CITEL SFD-13
Existing upstream ground fault breaker (if any)	Type "S" or delayed

Mechanical characteristics	
Dimensions	see diagram, 1TE, DIN 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
Max. voltage/current for remote signaling	250 V/0.5 A (AC) / 30 V/3 A (DC)
Wiring for remote signaling	max 1.5 mm ²
Mounting	Symmetrical rail 35 mm (EN60715)
Operating temperature	-40/+85°C
Protection rating	IP20
Housing material	Thermoplastic UL94 V-0
Spare unit	MDAC1-13-440 MDAC1-13-320 MDAC1-13-275 MDAC1-13-150

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

Part number	
	821710421 821710321 821710221 821710121

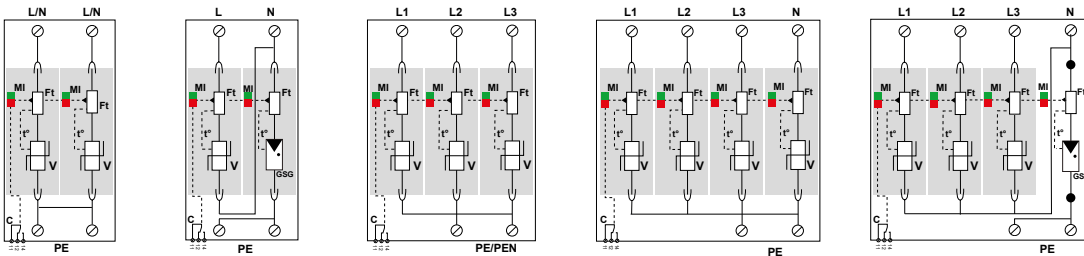
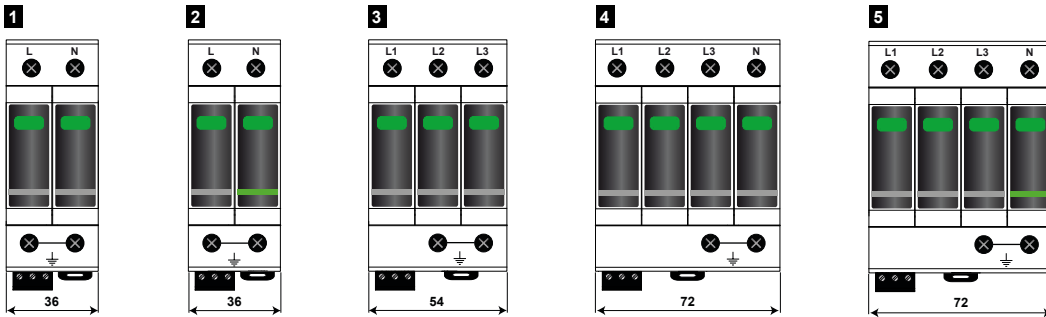
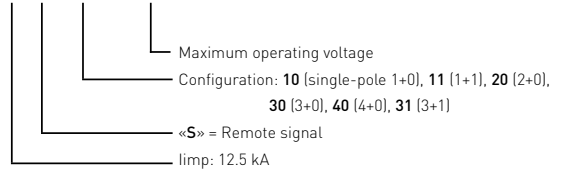
TYPE 1 + 2 AC MULTIPOLAR SURGE PROTECTOR

DAC1-13S-11, DAC1-13S-20, DAC1-13S-30, DAC1-13S-31, DAC1-13S-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
DAC1-13S-31-320	821710344	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
DAC1-13S-31-275	821710244	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	
DAC1-13S-31-150	821710144	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
DAC1-13S-40-440	821710424	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	
DAC1-13S-40-320	821710324	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	
DAC1-13S-40-275	821710224	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	
DAC1-13S-40-150	821710124	120/208 V 3-Phase+N	TNS System (4+0)	L/PE and N/PE	50 kA	1.2 kV	-	0.9 kV	4 TE	3
DAC1-13S-30-440	821710423	230/400 V 3-Phase	IT System (3+0)	L/PE	37.5 kA	1.7 kV	-	-	3 TE	
DAC1-13S-30-320	821710323	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.6 kV	-	-	3 TE	
DAC1-13S-30-275	821710223	230/400 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.3 kV	-	-	3 TE	1
DAC1-13S-30-150	821710123	120/208 V 3-Phase	TNC System (3+0)	L/PE	37.5 kA	1.2 kV	-	-	3 TE	
DAC1-13S-11-320	821710342	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.6 kV	1.5 kV	2 TE	2
DAC1-13S-11-275	821710242	230 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	1.3 kV	1.5 kV	2 TE	
DAC1-13S-11-150	821710142	120 V single phase	TT-TN System (1+1)	L/N and N/PE	25 kA	-	0.9 kV	1.5 kV	2 TE	1
DAC1-13S-20-440	821710422	230 V single phase	IT System (2+0)	L/PE and N/PE	25 kA	1.7 kV	-	1.7 kV	2 TE	
DAC1-13S-20-320	821710322	230 V single phase	TN System(2+0)	L/PE and N/PE	25 kA	1.6 kV	-	1.6 kV	2 TE	
DAC1-13S-20-275	821710222	230 V single phase	TN System(2+0)	L/PE and N/PE	25 kA	1.3 kV	-	1.3 kV	2 TE	
DAC1-13S-20-150	821710122	120 V single phase	TN System (2+0)	L/PE and N/PE	25 kA	1.2 kV	-	0.9 kV	2 TE	