



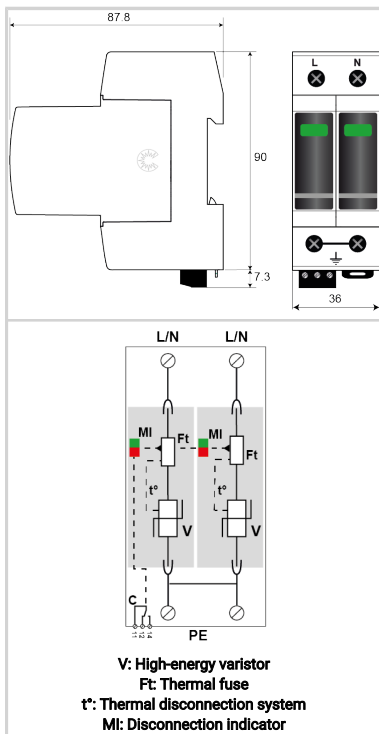
# CITEL

## Type 1+2 AC surge protector single-phase

### DAC1-13S-20-440



- ▶ Type 1 + 2 AC multipolar surge protector
- ▶ In: 20 kA
- ▶ Iimp: 12.5 kA
- ▶ Pluggable module for each phase
- ▶ Remote signaling
- ▶ EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance



Electrical Characteristics		
SPD type	IEC	1+2
Network		230/400V
AC system		IT
Max. AC operating voltage	Uc	440 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	580 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	770 Vac disconnection
Residual Current Leakage current to Ground	Ipe	< 1 mA
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 10/350 μs by pole	I <sub>imp</sub>	12.5 kA
Impulse current N/PE max. withstand 10/350 μs	I <sub>imp</sub> N /PE	50 kA
Total lightning current max. total withstand @ 10/350 μs	I <sub>total</sub>	25 kA
Specific energy by pole max. withstand 10/350 μs	W/R	40 kJ/ohm
Protection mode(s)		L/PE and N/PE
Protection level N/PE @ In (8/20 μs)	Up N/PE	1.7 kV
Protection level L/PE @ In (8/20 μs)	Up L/PE	1.7 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 μs)	Up-5kA	1.5 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 μs)	Up-5kA	1.5 kV
Admissible short-circuit current	I <sub>scrr</sub>	50 000 A
Mechanical Characteristics		
Technology		MOV
SPD configuration		Single phase
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)		MDAC1-13-440
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 - 2TE (EN43880)
Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		max. 315 A (gL/gG)
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5



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Certification	
Part number	
821710422	

