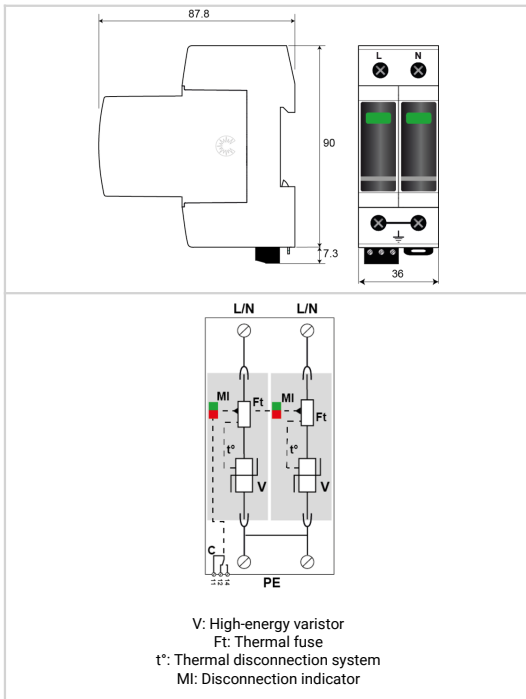


## DAC1-13S-20-440



- ✔ 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 V single-phase	
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 10/350μs by pole	I <sub>imp</sub>	12.5 kA	
Impulse current N/PE max. withstand 10/350μs	I <sub>imp</sub> N/PE	50 kA	
Total lightning current max. total withstand @ 10/350μs	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 (8/20μs)	Up N/PE	1.7 kV	
Protection level L/PE @ In (8/20μs)	Up L/PE	1.7 kV	
Protection level N/PE at 5 kA @ 5 kA (8/20μs)	Up-5kA	1.5 kV	
Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)	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)	
Weight		0.349 kg	
Disconnectors			
Thermal disconnector		Internal	
Installation ground fault breaker		Type 'S' or delayed	
Back-up protection device		315 A max. - Fuses Type gG	
Standards			
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5	
Certification			
Part number			
821710422			

