



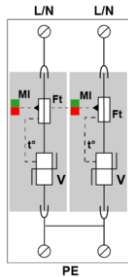
## Type 2 AC surge protector - Single-phase

# CITEL

## DAC50-20-440



- ↳ Type 2 AC surge protector
- ↳ In: 20 kA
- ↳ I<sub>max</sub>: 50 kA
- ↳ Pluggable module for each phase
- ↳ Remote signaling option
- ↳ EN 61643-11, IEC 61643-11 and UL1449 ed.5 certified



V: High-energy varistor  
 Ft: Thermal fuse  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

Electrical Characteristics		
SPD type		2
Network		230 V single-phase
AC system		IT
Max. AC operating voltage	U <sub>c</sub>	440 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	U <sub>T</sub>	580 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	U <sub>T</sub>	770 Vac disconnection
Residual Current Leakage current to Ground	I <sub>pe</sub>	< 1 mA
Follow current	I <sub>f</sub>	None
Nominal discharge current 15 x 8/20 μs impulses	I <sub>n</sub>	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 Total</sub>	100 kA
Protection mode(s)		L/PE and N/PE
Protection level N/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> N/PE	2 kV
Protection level L/PE @ I <sub>n</sub> (8/20μs)	U <sub>p</sub> L/PE	2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p-5kA</sub>	1.5 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p-5kA</sub>	1.5 kV
Admissible short-circuit current	I <sub>sc</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	T <sub>u</sub>	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDAC50-440
Remote signaling of disconnection		option DAC50S-20-440 : output on changeover contact
Dimensions		See diagram - 2TE (EN43880)
Disconnectors		
Thermal disconnecter		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		50 A min. - 125 A max. - Fuses Type gG
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		ÖVE / UL
Part number		
821110412		

