



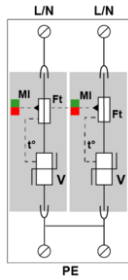
## Type 2 AC surge protector - Single-phase

# CITEL

## DAC50-20-440



- ↳ Type 2 AC surge protector
- ↳ In: 20 kA
- ↳ Imax: 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	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 $\mu$ s impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	Imax	50 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	Imax Total	100 kA
Protection mode(s)	L/PE and N/PE	
Protection level N/PE @ In (8/20 $\mu$ s)	Up N/PE	2 kV
Protection level L/PE @ In (8/20 $\mu$ s)	Up L/PE	2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	1.5 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	1.5 kV
Admissible short-circuit current	Iscsr	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)	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

