



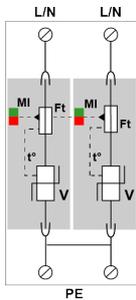
# CITEL

## Type 2 AC surge protector - Single-phase

### DAC50-20-150



- Type 2 AC multipolar 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 certified



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

#### Electrical Characteristics

SPD type	IEC	2
Network		120 V single-phase
AC system		TN
Max. AC operating voltage	U <sub>c</sub>	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	230 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</sub> Total	100 kA
Protection mode(s)		L/PE and N/PE
Protection level N/PE @ I <sub>n</sub> (8/20 μs)	U <sub>p</sub> N/PE	0.9 kV
Protection level L/PE @ I <sub>n</sub> (8/20 μs)	U <sub>p</sub> L/PE	1.2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 μs)	U <sub>p</sub> -5kA	0.6 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 μs)	U <sub>p</sub> -5kA	0.6 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	T <sub>u</sub>	-40/+85°C
Ingress Protection rating		IP20 (NEMA 2)
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDACS-150
Remote signaling of disconnection		option DAC50S-20-150 : 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		0.190 kg

#### Disconnectors

Thermal disconnector		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
Certification		ÖVE

#### Part number

**821110112**

