



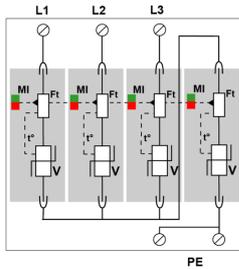
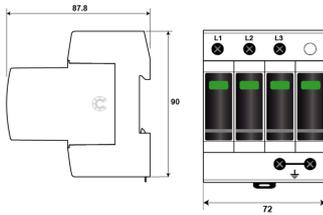
# CITEL

## Type 1+2 3-phase AC surge protector for PV inverter

### DAC1-13-31Y-880



- ☛ Type 1 + 2 3-Phase AC surge protector
- ☛ up to 800 Vac voltage network
- ☛ PV inverter application: Max DC voltage L/PE= 1200 Vdc
- ☛ Iimp: 12.5 kA
- ☛ Pluggable module
- ☛ Remote signaling (option)
- ☛ EN 61643-11, IEC 61643-11 compliance



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

#### Electrical Characteristics

SPD type	IEC	1+2
Network		Equal or less than 800 Vac
AC system		TNC-IT
Max. AC operating voltage	Uc	880 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	1160 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	1385 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
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
Specific energy by pole max. withstand 10/350 µs	W/R	40 kJ/ohm
Protection level @ In (8/20µs)	Up	3.4 kV
Admissible short-circuit current	I <sub>scrc</sub>	50 000 A

#### Mechanical Characteristics

SPD configuration		3-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		option DAC1-13S-31Y-800 : output on changeover contact
Dimensions		See diagram - 4TE (EN43880)
Weight		0.652 kg

#### Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		Fuse assembly: SFD1-13S-31 / or 125 A min. - 315 A max. - Fuses Type gG

#### Standards

Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
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#### Part number

821750534

