



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

CITEL

DAC1-13S-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
- ▶ EN 61643-11, IEC 61643-11 compliance



	Electrical Characteristics	
	SPD type	1+2
	Network	Equal or less than 800 Vac
	AC system	TNC-IT
	Max. AC operating voltage	Uc 880 Vac
	Max. DC operating voltage	Uc 1200 Vdc
	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 _{max} 50 kA
	Impulse current by pole max. withstand 10/350 μs by pole	I _{imp} 12.5 kA
	Specific energy by pole max. withstand 10/350 μs	W/R 40 kJ/ohm
	Protection level @ In (8/20 μs)	Up 3.4 kV
	Admissible short-circuit current	I _{sc} 50 000 A
<p>V: High-energy varistor Ft: Thermal fuse t*: Thermal disconnection system MI: Disconnection indicator</p>	Mechanical Characteristics	
	Technology	MOV
	SPD configuration	3-phase
	Connection to Network	By screw terminals: 2.5-25mm ² (35mm ² 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 ² max.
	Max. Voltage/Current for remote signaling	250 V / 0.5 A (AC) / 30 V / 3 A (DC)
	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	315 A max. - Fuses Type gG / or SFD1-13S
	Standards	
	Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
	Certification	
	Part number	
	821750544	

