



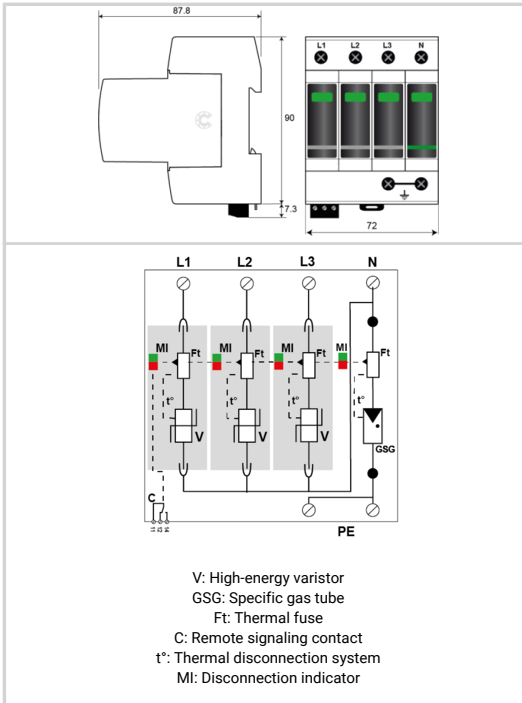
## Type 1+2 AC surge protector - 3-phase+N

# CITEL

## DAC1-13S-31-150



- Type 1 + 2 AC surge protector
- In : 20 kA
- Iimp : 12.5 kA
- Pluggable module for each phase
- Remote signaling
- EN 61643-11, IEC 61643-11 certified
- UL1449 ed.5 compliance



Electrical Characteristics	
SPD type	1+2
Network	120/208 V 3-phase+N
AC system	TT-TNS
Max. AC operating voltage	Uc 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
Temporary Over Voltage N/PE (TOV HT) Without disconnection or with safety disconnection	UT 1200 V/300A/200 ms withstand
Residual Current	Ipe None
Leakage current to Ground	Ipe None
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
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total 150 kA
Impulse current by pole max. withstand 10/350 μs by pole	I <sub>imp</sub> 12.5 kA
Total lightning current max. total withstand @ 10/350 μs	I <sub>total</sub> 50 kA
Specific energy by pole max. withstand 10/350 μs	W/R 40 kJ/ohm
Protection mode(s)	L/N and N/PE
Protection level @ In (8/20 μs) and @ 6 kV (1,2/50 μs)	Up L/N 0.9 kV
Protection level N/PE @ In (8/20 μs) and @ 6 kV (1,2/50 μs)	Up N/PE 1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20 μs)	Up-5kA 0.6 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 μs)	Up-5kA 0.6 kV
Admissible short-circuit current	I <sub>sc</sub> 50 000 A
Mechanical Characteristics	
Technology	MOV
SPD configuration	3-phase+Neutral
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)	MDAC1-13-150
Remote signaling of disconnection	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 - 4TE (EN43880)
Weight	0.461 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
Certification	KEMA
Part number	

