



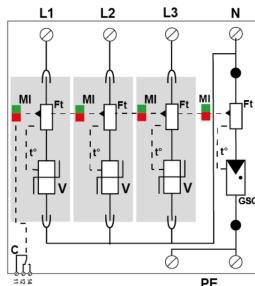
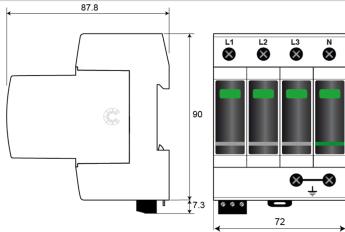
# CITEL

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

### DAC1-13S-31-320



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



V: High-energy varistor  
 GSG: Specific gas tube  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t°: Thermal disconnection system  
 MI: Disconnection indicator

#### Electrical Characteristics

SPD type	IEC	1+2
Network		230/400 V 3-phase+N
AC system		TT-TNS
Max. AC operating voltage	Uc	320 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	UT	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	UT	440 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	If	None
Nominal discharge current 15 x 8/20 µs impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 µs by pole	Imax	50 kA
Total Maximum discharge current max. total withstand @ 8/20 µs	Imax Total	150 kA
Impulse current by pole max. withstand 10/350µs by pole	Imp	12.5 kA
Impulse current N/PE max. withstand 10/350µs	Imp N/PE	50 kA
Total lightning current max. total withstand @ 10/350µs	Itotal	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 (8/20µs) and @ 6 kV (1,2/50 µs)	Up L/N	1.6 kV
Protection level N/PE @ In (8/20µs) and @ 6 kV (1,2/50 µs)	Up N/PE	1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20µs)	Up-5kA	1.2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20µs)	Up-5kA	1.2 kV
Admissible short-circuit current	Iscrr	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)	MDAC1-13-320
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)

#### Disconnectors

Thermal disconnector	Internal
Installation ground fault breaker	Type 'S' or delayed
Back-up protection device	max. 315 A (gL/gG)

#### Standards

Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	KEMA
Part number	821710344

