



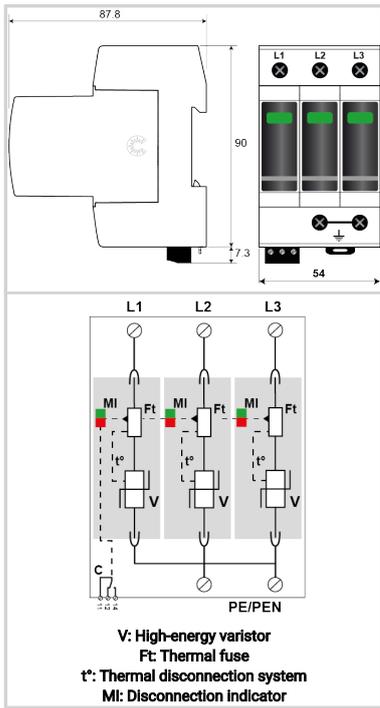
# CITEL

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

### DAC1-13S-30-320



- › Type 1 + 2 AC surge protector
- ›  $I_n$  : 20 kA
- ›  $I_{imp}$  : 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	IEC	1+2
Network		230/400 V 3-phase
AC system		TNC
Max. AC operating voltage	$U_c$	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
Residual Current Leakage current to Ground	$I_{pe}$	< 1 mA
Follow current	$I_f$	None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	$I_n$	20 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	$I_{max}$	50 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total	150 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	$I_{imp}$	12.5 kA
Impulse current N/PE max. withstand 10/350 $\mu$ s	$I_{imp}$ N /PE	50 kA
Total lightning current max. total withstand @ 10/350 $\mu$ s	$I_{total}$	37.5 kA
Specific energy by pole max. withstand 10/350 $\mu$ s	W/R	40 kJ/ohm
Protection mode(s)		L/PE
Protection level L/PE @ $I_n$ (8/20 $\mu$ s)	$U_p$ L/PE	1.6 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	$U_p$ -5kA	1.5 kV
Admissible short-circuit current	$I_{sc}$	50 000 A

#### Mechanical Characteristics

Technology		MOV
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	$T_u$	-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 - 3 TE (EN43880)
Weight		0.562 kg

#### 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

821710323

