



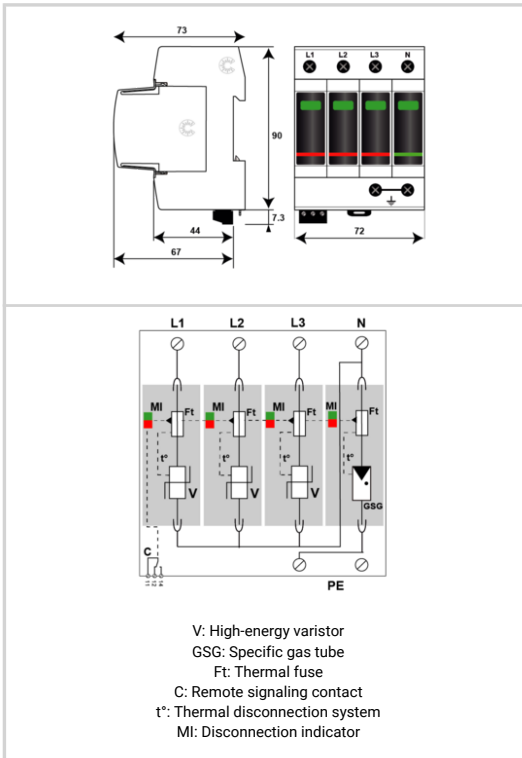
# Type 2 AC surge protector - 3-phase+N

# CITEL

## DAC50S-31-320



- › Type 2 AC surge protector
- › In: 20 kA
- › I<sub>max</sub>: 50 kA
- › Pluggable module for each phase
- › Remote signaling
- › UL1449 ed.5 certified
- › EN 61643-11, IEC 61643-11 compliance



Electrical Characteristics		
SPD type		2
Network		230/400 V 3-phase+N
AC system		TT-TNS
Max. AC operating voltage	U <sub>c</sub>	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		
Leakage current to Ground	I <sub>pe</sub>	None
Follow current	I <sub>f</sub>	None
Nominal discharge current 15 x 8/20 μs impulses	I <sub>n</sub>	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 Total</sub>	50 kA
Protection mode(s)		L/N and N/PE
Protection level @ I <sub>n</sub> (8/20μs) and @ 6 kV (1,2/50 μs)	U <sub>p L/N</sub>	1.5 kV
Protection level N/PE @ I <sub>n</sub> (8/20μs) and @ 6 kV (1,2/50 μs)	U <sub>p N/PE</sub>	1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20μs)	U <sub>p-5kA</sub>	1.2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20μs)	U <sub>p-5kA</sub>	1.2 kV
Admissible short-circuit current	I <sub>sc cr</sub>	50 000 A
Mechanical Characteristics		
Technology		MOV+GDT
SPD configuration		3-phase+Neutral
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup>
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	T <sub>u</sub>	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection from AC network
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Spare module(s)		MDAC50-320+MDAC50G-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)
Weight		0.347 kg
Disconnectors		
Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		50 A min. - 125 A max. - Fuses Type gG
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification		ÖVE / UL
Part number		
821110344		

