



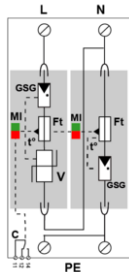
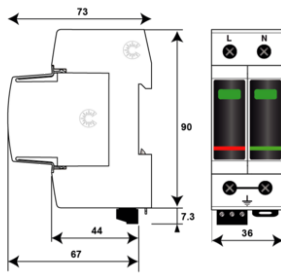
## Type 2 AC surge protector - Single-phase

# CITEL

### DAC50VGS-11-150



- Type 2 + 3 AC surge protector
- VG Technology
- In : 20 kA
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and 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		2+3
Network		120 V single-phase
AC system		TT-TN
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 withstand
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	Ipe	None
Follow current	If	None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	Imax	50 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	Imax Total	50 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s	Uoc	6 kV
Connection mode(s)		L/N and N/PE
Protection level @ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	Up L/N	1.5 kV
Protection level N/PE @ In (8/20 $\mu$ s) and @ 6 kV (1,2/50 $\mu$ s)	Up N/PE	1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	0.4 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	0.4 kV
Admissible short-circuit current	Iscsr	50 000 A

#### Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
SPD configuration		Single 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	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)		MDAC50VG-150 + MDAC50G-255
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 - 2TE (EN43880)
Weight		0.181 kg

#### Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		50 A min. - 160 A max. - Fuses Type gG

#### Standards

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

#### Part number

Part number		821130142
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