



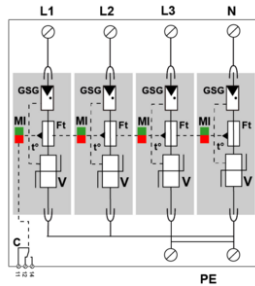
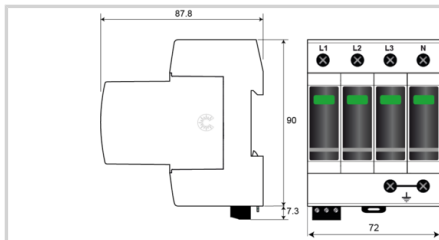
Type 1+2+3 AC surge protector - 3-phase+N

CITEL

DAC1-13VGS-40-150



- Type 1 + 2 + 3 AC surge protector
- VG Technology
- I_n : 20 kA
- I_{imp} : 12,5 kA on 10/350 μ s impulse
- No leakage current
- Pluggable module for each phase
- Remote signaling
- Optimized to TOV
- EN 61643-11, IEC 61643-11 and UL1449 ed.5 compliance
- Certified EN 61643-11 and IEC 61643-11



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		1+2+3
Network		120/208 V 3-phase+N
AC system		TNS
Max. AC operating voltage	Uc	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT	180 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT	230 Vac withstand
Residual Current	Ipe	None
Leakage current to Ground		
Follow current	If	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	I_n	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	I_{max}	50 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i>	I_{max} Total	200 kA
Impulse current by pole <i>max. withstand 10/350μs by pole</i>	I_{imp}	12.5 kA
Total lightning current <i>max. total withstand @ 10/350μs</i>	I_{total}	50 kA
Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i>	Uoc	6 kV
Specific energy by pole <i>max. withstand 10/350 μs</i>	W/R	40 kJ/ohm
Protection mode(s)		L/PE and N/PE
Protection level L/PE <i>@ I_n (8/20μs) and @ 6 kV (1,2/50 μs)</i>	L/PE	1.5 kV
Protection level N/PE <i>@ I_n (8/20μs) and @ 6 kV (1,2/50 μs)</i>	Up N/PE	1.5 kV
Protection level N/PE at 5 kA <i>@ 5 kA (8/20μs)</i>	Up-5kA	0.4 kV
Residual voltage L/PE at 5 kA <i>@ 5 kA (8/20μs)</i>	Up-5kA	0.4 kV
Admissible short-circuit current	Iscrr	50 000 A

Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
SPD configuration		3-phase+Neutral
Connection to Network		By screw terminals: 2.5-25mm ² (35mm ² 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)		MDAC1-13VG-150
Remote signaling of disconnection		output on changeover contact
Wiring for remote signaling		1.5 mm ² max.
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 4TE (EN43880)
Weight		0.528 kg

Disconnectors

Thermal disconnector		Internal
Installation ground fault breaker		Type 'S' or delayed
Back-up protection device		Fuse assembly: SFD1-13S-40 / or 125 A min. - 315 A max. - Fuses Type gG



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Standards	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	KEMA
Part number	
821730124	

