



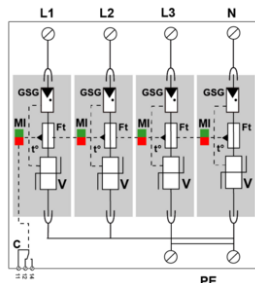
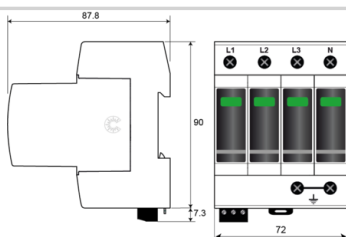
CITEL

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

DAC1-13VGS-40-320



- 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	230/400 V 3-phase+N
AC system	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 withstand
Residual Current	Ipe None
Leakage current to Ground	If None
Follow current	I _f None
Nominal discharge current 15 x 8/20 μ s impulses	I _n 20 kA
Max. discharge current max. withstand @ 8/20 μ s by pole	I _{max} 50 kA
Total Maximum discharge current max. total withstand @ 8/20 μ s	I _{max} Total 200 kA
Impulse current by pole max. withstand 10/350 μ s by pole	I _{imp} 12.5 kA
Total lightning current max. total withstand @ 10/350 μ s	I _{total} 50 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 μ s - 8/20 μ s	Uoc 6 kV
Specific energy by pole max. withstand 10/350 μ s	W/R 40 kJ/ohm
Protection mode(s)	L/PE and N/PE
Protection level L/PE @ I _n (8/20 μ s) and @ 6 kV (1,2/50 μ s)	L/PE 1.5 kV
Protection level N/PE @ I _n (8/20 μ s) and @ 6 kV (1,2/50 μ s)	Up N/PE 1.5 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 μ s)	Up-5kA 0.9 kV
Residual voltage L/PE at 5 kA @ 5 kA (8/20 μ s)	Up-5kA 0.9 kV
Admissible short-circuit current	I _{sc} 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-320
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)

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

Standards

DAC1-13VGS-40-320

Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	KEMA
Part number	
821730324	