



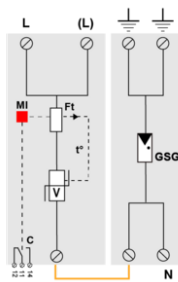
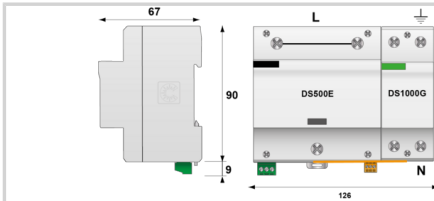
Type 1+2 AC surge protector single-phase

CITEL

DS502E-320/G



- ↳ Type 1 + 2 multipolar AC surge protector
- ↳ I_{imp} total : 100 kA (10/350 μ s impulse)
- ↳ I_{max} : 200 kA (8/20 μ s impulse)
- ↳ Internal disconnections, status indicator and remote signaling
- ↳ Conforme NF EN 61643-11, IEC 61643-11, UL1449 ed.5



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
Network	230 V single-phase
AC system	TT-TN
Nominal line voltage	U_n 230 Vac
Max. AC operating voltage	U_c 320 Vac
Max. load current if series connection	I_L 100 A
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
Follow current	I_f None
Nominal discharge current 15 x 8/20 μ s impulses	I_n 50 kA
Max. discharge current max. withstand @ 8/20 μ s by pole	I_{max} 200 kA
Impulse current by pole max. withstand 10/350 μ s by pole	I_{imp} 50 kA
Total lightning current max. total withstand @ 10/350 μ s	I_{total} 100 kA
Specific energy by pole max. withstand 10/350 μ s	W/R 156 kJ/ohm
Connection mode(s)	L/N and N/PE
Protection mode(s)	Common/Differential mode
Protection level L/N @ I_n (8/20 μ s)	Up L/N 1.8 kV
Protection level N/PE @ I_n (8/20 μ s)	Up N/PE 1.5 kV
Residual voltage L/N at 5 kA @ 5 kA (8/20 μ s)	Up-5kA 1.2 kV
Protection level N/PE at 5 kA @ 5 kA (8/20 μ s)	Up-5kA 1.2 kV
Admissible short-circuit current	I_{sc} 50 000 A
Mechanical Characteristics	
Technology	MOV
SPD configuration	Single phase
Connection to Network	By screw terminals: 6-35mm ² / by bus
Format	1-pole modular box assembled
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
Remote signaling of disconnection	Output on changeover contact
Dimensions	See diagram
Weight	0.895 kg
Disconnectors	
Thermal disconnecter	Internal
Installation ground fault breaker	Type 'S' or delayed
Back-up protection device	Fuses Type gG - 500 A
Standards	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Certification	
Part number	
64026	

