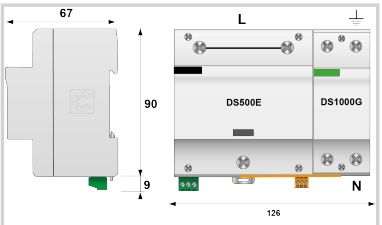
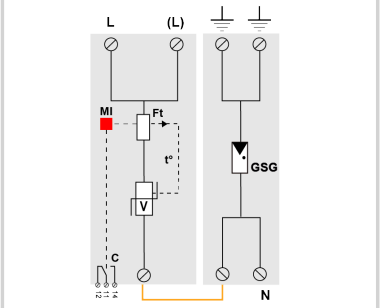
Type 1+2 AC surge protector single-phase

DS502E-320/G



- Type 1 + 2 multipolar AC surge protector
- Iimp total : 100 kA (10/350µs impulse)
- Imax : 200 kA (8/20µs 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	IEC	1+2
Network		230/400V
AC system		TT-TN
Nominal line voltage	Un	230 Vac
Max. AC operating voltage	Uc	320 Vac
Max. load current *if series connection*	IL	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	If	None
Nominal discharge current *15 x 8/20 µs impulses*	In	50 kA
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	200 kA
Impulse current by pole *max. withstand 10/350µs by pole*	Iimp	50 kA
Total lightning current *max. total withstand @ 10/350µs*	Itotal	100 kA
Specific energy by pole *max. withstand 10/350 µs*	W/R	156 kJ/ohm
Connection mode(s)		L/N and N/PE
Protection mode(s)		Common/Differential mode
Protection level L/N *@ In (8/20µs)*	Up L/N	1.8 kV
Protection level N/PE *@ In (8/20µs)*	Up N/PE	1.5 kV
Residual voltage L/N at 5 kA *@ 5 kA (8/20µs)*	Up-5kA	1.2 kV
Protection level N/PE at 5 kA *@ 5 kA (8/20µs)*	Up-5kA	1.2 kV
Admissible short-circuit current	Isccr	50 000 A
Mechanical Characteristics		
Technology		MOV
SPD configuration		Single phase
Connection to Network		By screw terminals: 6-35mm² / by bus
Format		1-pole modular box assembled
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
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Disconnectors		
Thermal disconnector		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		