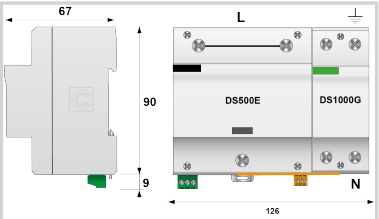
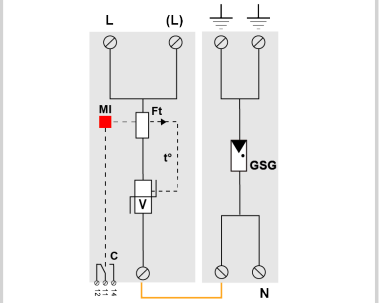
Type 1+2 AC surge protector single-phase

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
Weight		0.895 kg
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		