



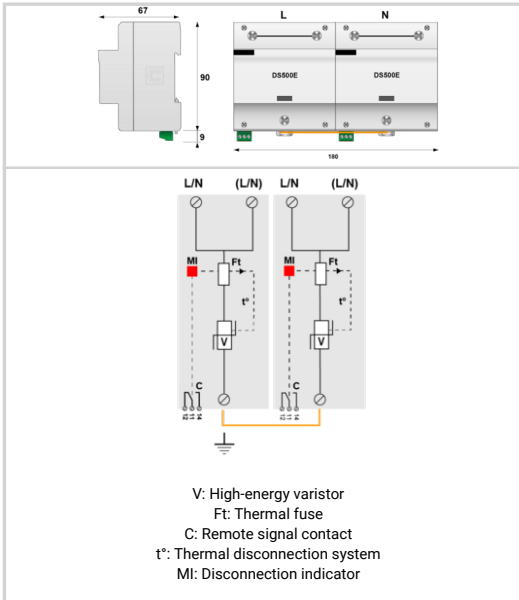
# Type 1+2 AC surge protector single-phase

# CITEL

## DS502E-320



- ↳ 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



Electrical Characteristics	
SPD type	1+2
Network	230 V single-phase
AC system	TN
Nominal line voltage	Un 230 Vac
Max. AC operating voltage	Uc 320 Vac
Max. load current <i>if series connection</i>	IL 100 A
Temporary Over Voltage (TOV) Characteristics - 5 sec. <i>Without disconnection</i>	UT 335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn <i>Without disconnection or with safety disconnection</i>	UT 440 Vac disconnection
Follow current	If None
Nominal discharge current <i>15 x 8/20 µs impulses</i>	In 50 kA
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	I <sub>max</sub> 200 kA
Impulse current by pole <i>max. withstand 10/350µs by pole</i>	I <sub>imp</sub> 50 kA
Total lightning current <i>max. total withstand @ 10/350µs</i>	I <sub>total</sub> 100 kA
Specific energy by pole <i>max. withstand 10/350 µs</i>	W/R 156 kJ/ohm
Connection mode(s)	L/PE and N/PE
Protection mode(s)	Common mode
Protection level N/PE <i>@ In (8/20µs)</i>	Up N/PE 1.8 kV
Protection level L/PE <i>@ In (8/20µs)</i>	Up L/PE 1.8 kV
Admissible short-circuit current	I <sub>sc</sub> 50 000 A
Mechanical Characteristics	
Technology	MOV
SPD configuration	Single phase
Connection to Network	By screw terminals: 6-35mm <sup>2</sup> / 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	1.2 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	
<b>64029</b>	

