



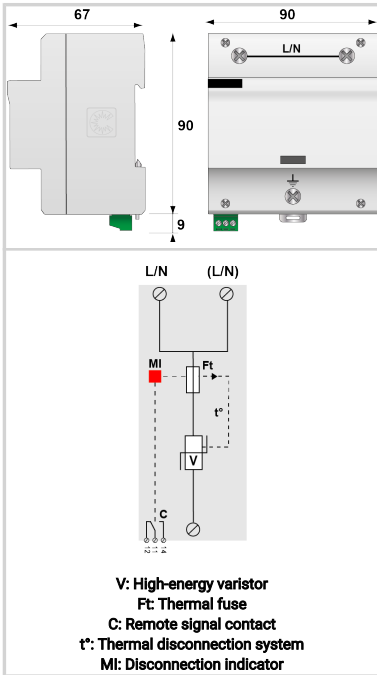
# CITEL



## Type 1+2 AC surge protector - 1-pole

### DS500E-320

- Type 1+2 unipolar AC surge protector
- $I_{limp}$  : 50 kA on 10/350 $\mu$ s impulse
- $I_{max}$  : 200 kA on 8/20 $\mu$ s impulse
- Internal disconnections, status indicator and remote signaling
- IEC 61643-11 and EN 61643-11



#### Electrical Characteristics

SPD type	IEC	1+2
Network		230/400 V
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
Residual Current <i>Leakage current to Ground</i>	Ipe	< 3 mA
Follow current	If	None
Nominal discharge current <i>15 x 8/20 <math>\mu</math>s impulses</i>	In	50 kA
Max. discharge current <i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>	I <sub>max</sub>	200 kA
Impulse current by pole <i>max. withstand 10/350<math>\mu</math>s by pole</i>	I <sub>limp</sub>	50 kA
Specific energy by pole <i>max. withstand 10/350 <math>\mu</math>s</i>	W/R	625 kJ/ohm
Connection mode(s)		L/N and L/PE
Protection level <i>@ In (8/20<math>\mu</math>s)</i>	Up	1.8 kV
Residual voltage at 5 kA <i>@ 5 kA (8/20<math>\mu</math>s)</i>	Up-5kA	0.9 kV
Admissible short-circuit current	I <sub>sc</sub>	50 000 A

#### Mechanical Characteristics

Technology		MOV
Connection to Network		By screw terminals: 6-35mm <sup>2</sup>
Format		1-pole 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
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
Certification		

#### Part number

**63166**

