



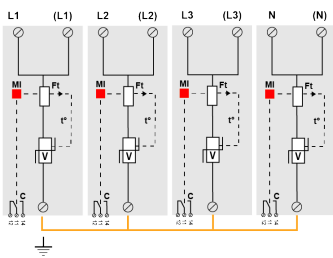
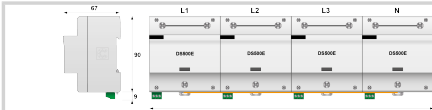
# CITEL

## Type 1+2 AC surge protector - 3-phase+N

### DS504E-320



- Type 1 + 2 multipolar AC surge protector
- Iimp total : 200 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  
**Ft:** Thermal fuse  
**C:** Remote signal contact  
**t\*:** Thermal disconnection system  
**MI:** Disconnection indicator

#### Electrical Characteristics

SPD type	IEC	1+2
Network		230/400 V 3-phase+N
AC system		TNS
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>	200 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
Protection level N/PE at 5 kA <i>@ 5 kA (8/20µs)</i>	Up-5kA	1.2 kV
Residual voltage L/PE at 5 kA <i>@ 5 kA (8/20µs)</i>	Up-5kA	1.2 kV
Admissible short-circuit current	I <sub>sc</sub>	50 000 A

#### Mechanical Characteristics

Technology		MOV
SPD configuration		3-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

#### 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

**504320**

