



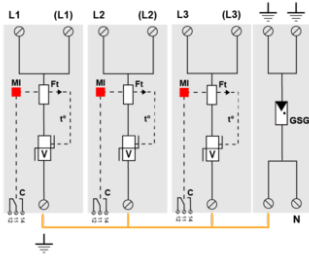
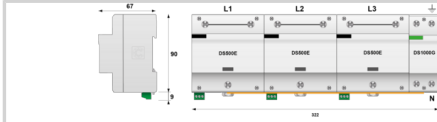
## Type 1+2 AC surge protector - 3-phase+N

# CITEL

## DS504E-320/G



- ↳ Type 1 + 2 multipolar AC surge protector
- ↳ I<sub>imp</sub> total : 100 kA (10/350µs impulse)
- ↳ I<sub>max</sub> : 150 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	1+2
Network	230/400 V 3-phase+N
AC system	TT-TNS
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	I <sub>max</sub> 200 kA
Impulse current by pole max. withstand 10/350µs by pole	I <sub>imp</sub> 50 kA
Total lightning current max. total withstand @ 10/350µs	I <sub>total</sub> 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 @ I <sub>n</sub> (8/20µs)	Up L/N 1.8 kV
Protection level N/PE @ I <sub>n</sub> (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	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
Weight	2.1 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

64017

