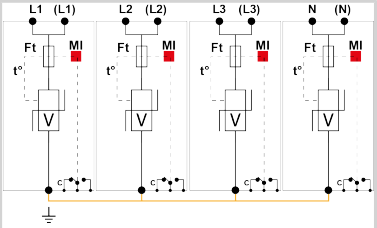
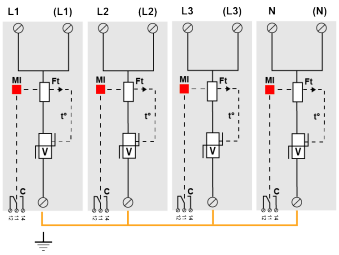
# *Type 1+2 AC surge protector - 3-phase+N*

## 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 | | 230/400V |
| AC system | | TNS |
| Nominal line voltage | Un | 230 Vac |
| Max. AC operating voltage | Uc | 320 Vac |
| Max. load current<br>*if series connection* | IL | 100 A |
| Temporary Over Voltage (TOV) Characteristics - 5 sec.<br>*Without disconnection* | UT | 335 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn<br>*Without disconnection or with safety disconnection* | UT | 440 Vac disconnection |
| Follow current | If | None |
| Nominal discharge current<br>*15 x 8/20 µs impulses* | In | 50 kA |
| Max. discharge current<br>*max. withstand @ 8/20 µs by pole* | Imax | 200 kA |
| Impulse current by pole<br>*max. withstand 10/350µs by pole* | Iimp | 50 kA |
| Total lightning current<br>*max. total withstand @ 10/350µs* | Itotal | 200 kA |
| Specific energy by pole<br>*max. withstand 10/350 µs* | W/R | 156 kJ/ohm |
| Connection mode(s) | | L/PE and N/PE |
| Protection mode(s) | | Common mode |
| Protection level N/PE<br>*@ In (8/20µs)* | Up N/PE | 1.8 kV |
| Protection level L/PE<br>*@ In (8/20µs)* | Up L/PE | 1.8 kV |
| Protection level N/PE at 5 kA<br>*@ 5 kA (8/20µs)* | Up-5kA | 1.2 kV |
| Residual voltage L/PE at 5 kA<br>*@ 5 kA (8/20µs)* | Up-5kA | 1.2 kV |
| Admissible short-circuit current | Isccr | 50 000 A |
| **Mechanical Characteristics** | | |
| Technology | | MOV |
| SPD configuration | | 3-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 | | 2.68 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** | | |
| **504320** | | |