

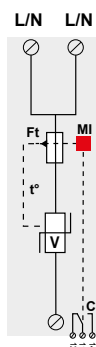
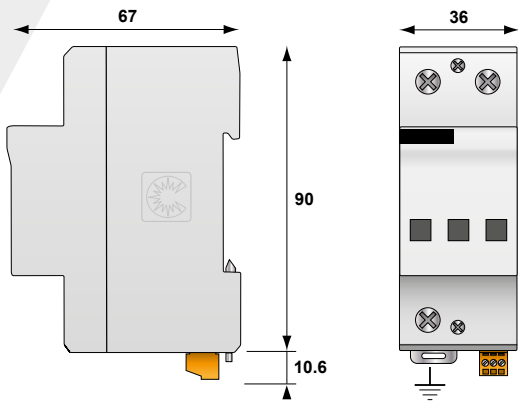


DS250E-300

DS250E SERIES



- Type 1 + 2 Surge Protector
- limp : 25 kA on 10/350 μ s impulse
- I_{max} : 140 kA on 8/20 μ s impulse
- Internal disconnections, status indicators and remote signaling
- IEC 61643-11, EN 61643-11 and UL1449 ed.4 compliance



V: High energy varistor network
MI: Disconnection indicator
Ft: Thermal fuse
t°: Thermal disconnection system
C: Contact for remote signal

Characteristics

| CITEL Model | | DS250E-400 | DS250E-300 | DS250E-120 |
|---|--------------------|--|-----------------------|-----------------------|
| Description | | Type 1+2 AC surge protector 1-pole | | |
| Network | | 230/400 V | 230/400 V | 120/208 V |
| Max. AC operating voltage | Uc | 440 Vac | 330 Vac | 150 Vac |
| Temporary Over Voltage (TOV) Characteristics - 5 sec. | UT | 580 Vac withstand | 335 Vac withstand | 180 Vac withstand |
| Temporary Over Voltage (TOV) Characteristics - 120 mn | UT | 770 Vac disconnection | 440 Vac disconnection | 230 Vac disconnection |
| Residual current - Leakage current at Uc | I _{pe} | < 3 mA | < 3 mA | < 3 mA |
| Max. Load current (if connection serie) | I _L | 100 A | 100 A | 100 A |
| Follow current | I _f | None | None | None |
| Nominal discharge current 15 x 8/20 μ s impulses | I _n | 50 kA | 70 kA | 70 kA |
| Max. discharge current max. withstand @ 8/20 μ s by pole | I _{max} | 140 kA | 140 kA | 140 kA |
| Impulse current by pole max. withstand 10/350 μ s | limp | 25 kA | 25 kA | 25 kA |
| Specific energy by pole | W/R | 156 kJ/ohm | 156 kJ/ohm | 156 kJ/ohm |
| Protection level @ I _n (8/20 μ s) | U _p | 2.5 kV | 2.5 kV | 1 kV |
| Residual voltage @ 5 kA (8/20 μ s) | U _{p-5kA} | 1.5 kV | 1 kV | 0.6 kV |
| Admissible short-circuit current | I _{sc} | 50000 A | 50000 A | 50000 A |
| Associated disconnectors | | | | |
| Thermal disconnector | | internal | | |
| Fuses | | Fuse type gG - 315 A / or CITEL SFD-25 | | |
| Installation ground fault breaker (if existing) | | Type «S» or delayed | | |
| Mechanical characteristics | | | | |
| Dimensions | | see diagram | | |
| Connection to Network | | By screw terminals : 6-35 mm ² / by bus | | |
| Disconnection indicator | | 3 mechanical indicators | | |
| Remote signaling of disconnection | | output on changeover contact | | |
| Mounting | | Symmetrical rail 35 mm (EN60715) | | |
| Operating temperature | | -40/+85°C | | |
| Protection rating | | IP20 | | |
| Housing material | | Thermoplastic UL94-V0 | | |
| Standards | | | | |
| Compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.4 | | |
| Certification | | EAC | | |
| Part number | | | | |
| | | 3731 | 2730 | 3106 |

TYPE 1 + 2 MULTIPOLAR AC SURGE PROTECTOR

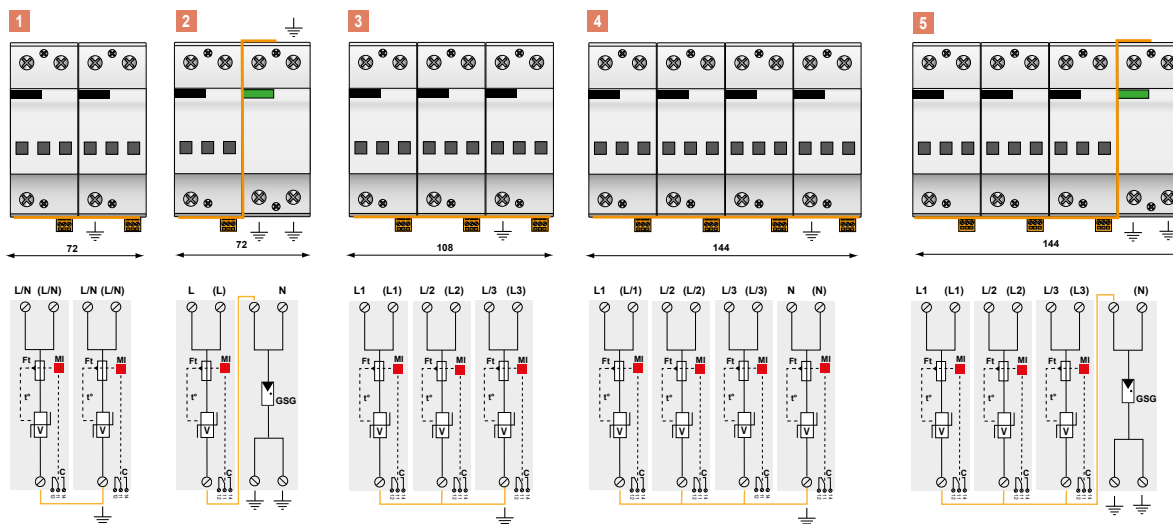
DS252E, DS253E, DS254E



DS254E-300/G

DS25x E-xxx/G

- « > » = Configuration CT1 (common mode)
- «G» = Configuration CT2 (common and differential mode)
- Operating voltage
- «E» = «Multi-Varistor» technology
- Number of protected poles (2, 3 or 4)



- V : High energy varistor network
- GSG : Specific gas Tube
- Ft : Thermal fuse
- C : Remote signaling contact
- t° : Thermal disconnection system
- MI : Disconnection indicator

| Model | P/N | Network | AC system | Protection Mode | I _{total} | Up L/PE | Up L/N | Up N/PE | Diagram |
|--------------|------|---------------------|-----------|-----------------|--------------------|---------|--------|---------|---------|
| DS254E-300/G | 3411 | 230/400 V 3-phase+N | TT-TNS | L/N and N/PE | 100 kA | - | 2.5 kV | 1.5 kV | 5 |
| DS254E-120/G | 3831 | 120/208 V 3-phase+N | TT-TNS | L/N and N/PE | 100 kA | - | 1 kV | 1.5 kV | |
| DS254E-400 | 3732 | 230/400 V 3-phase+N | IT | L/PE and N/PE | 100 kA | 2.5 kV | - | 2.5 kV | 4 |
| DS254E-300 | 3371 | 230/400 V 3-phase+N | TNS | L/PE and N/PE | 100 kA | 2.5 kV | - | 2.5 kV | |
| DS254E-120 | 3961 | 120/208 V 3-phase+N | TNS | L/PE and N/PE | 100 kA | 1 kV | - | 1 kV | 3 |
| DS253E-400 | 3939 | 230/400 V 3-phase | IT | L/PE | 75 kA | 2.5 kV | - | - | |
| DS253E-300 | 3350 | 230/400 V 3-phase | TNC | L/PE | 75 kA | 2.5 kV | - | - | |
| DS253E-120 | 3887 | 120/208 V 3-phase | TNC | L/PE | 75 kA | 1 kV | - | - | |
| DS252E-300/G | 3404 | 230 V 3-phase | TT-TN | L/N and N/PE | 50 kA | - | 2.5 kV | 1.5 kV | |
| DS252E-120/G | 3904 | 120 V single phase | TT-TN | L/N and N/PE | 50 kA | - | 1 kV | 1.5 kV | 2 |
| DS252E-400 | 3952 | 230 V single phase | IT | L/PE and N/PE | 50 kA | 2.5 kV | - | 2.5 kV | |
| DS252E-300 | 3962 | 230 V single phase | TN | L/PE and N/PE | 50 kA | 2.5 kV | - | 2.5 kV | 1 |
| DS252E-120 | 3951 | 120 V single phase | TN | L/PE and N/PE | 50 kA | 1 kV | - | 1 kV | |