

# Type 1 + 2 AC Surge Protectors DS150E Series

**limp  
15 kA**

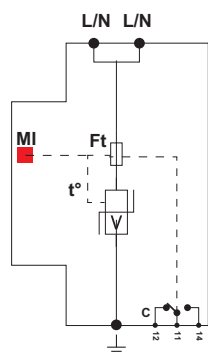
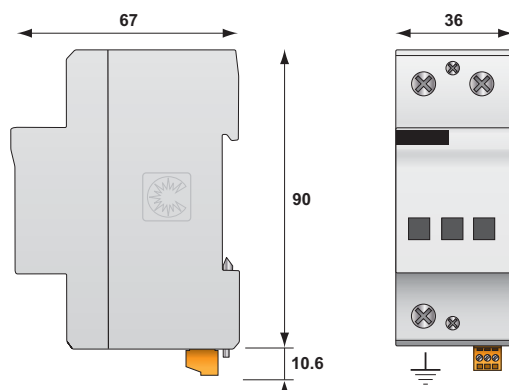


DS150E-300

- **Type 1 + 2 AC Power Surge Protector**
- **Enhanced Multi-MOV Design**
- **Individual Fault Indicator Windows**
- **limp : 15kA at 10/350µs**
- **I<sub>max</sub> : 165kA at 8/20µs**
- **I<sub>n</sub> : 50-70kA at 8/20µs**
- **UL 1449 3rd Edition Recognized**

## Dimensions and Electrical Diagram

(in mm)



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

## Characteristics

| CITEL Part Number                                           | DS150E-480                   | DS150E-300    | DS150E-120    |
|-------------------------------------------------------------|------------------------------|---------------|---------------|
| AC network voltage                                          | 347V-480V                    | 220-277V      | 120V-127V     |
| SPD configuration                                           | 1-pole                       | 1-pole        | 1-pole        |
| AC system                                                   | All                          | All           | All           |
| Maximum operating voltage                                   | U <sub>c</sub> 550 Vac       | 330 Vac       | 150 Vac       |
| TOV withstand                                               | U <sub>T</sub> 770 Vac       | 440 Vac       | 230 Vac       |
| Operating current                                           | I <sub>c</sub> < 2 mA        | < 2 mA        | < 2 mA        |
| Follow current                                              | I <sub>f</sub> none          | none          | none          |
| Nominal discharge current (IEC/UL)<br>15 x 8/20 µs impulses | I <sub>n</sub> 50 kA / 20 kA | 70 kA / 20 kA | 70 kA / 20 kA |
| Maximum discharge current<br>8/20 µs withstand              | I <sub>max</sub> 165 kA      | 165 kA        | 165 kA        |
| Maximum discharge current<br>10/350 µs withstand            | limp 15 kA                   | 15 kA         | 15 kA         |
| Voltage protection rating                                   | V <sub>pr</sub> 1500 V       | 1000 V        | 600 V         |
| Short-circuit current rating                                | S <sub>ccr</sub> 100 kA      | 100 kA        | 100 kA        |

### Associated Disconnection Devices

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Thermal disconnecter              | Internal                                |
| Fuses                             | Fuses type gG - 125 A max. (see Note 1) |
| Installation ground fault breaker | Type «S» or delayed                     |

### Mechanical Characteristics

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Dimensions                        | See diagram                                        |
| Connection                        | By screw terminals : 6-35 mm <sup>2</sup> / by bus |
| Disconnection indicator           | 3 mechanical indicators                            |
| Remote signaling of disconnection | Output on changeover contact                       |
| Mounting                          | Symmetrical rail 35 mm                             |
| Operating temperature             | -40/+85 °C                                         |
| Protection class                  | IP20                                               |
| Housing material                  | Thermoplastic UL94-V0                              |

### Standards Compliance

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| IEC 61643-11: International | Low Voltage SPD - Test Class I and II            |
| EN 61643-11: Europe         | Low Voltage SPD - Test Class I and II            |
| NF EN 61643-11: France      | Parafoudre Basse Tension - Essais Classe I et II |
| UL1449 3rd Edition: USA     | Type 4, for use in Type 2 locations              |

### Part Number

|            |      |
|------------|------|
| DS150E-480 | 2322 |
| DS150E-300 | 1697 |
| DS150E-120 | 1840 |

**Note 1:** Rating in compliance with NF C15-100 art. 534.1.3.5. In order to increase service continuity, higher rating can be used (up to 250 A). For further information, please consult product instructions.



# Type 1 + 2 Multi-Pole AC Surge Protectors

## DS152E, DS153E, DS154E

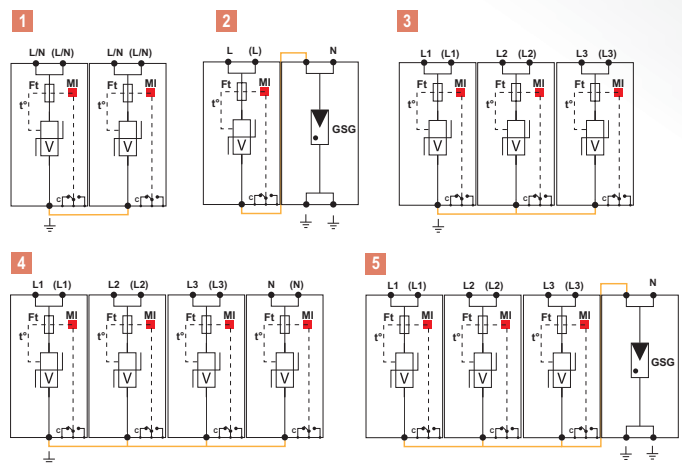
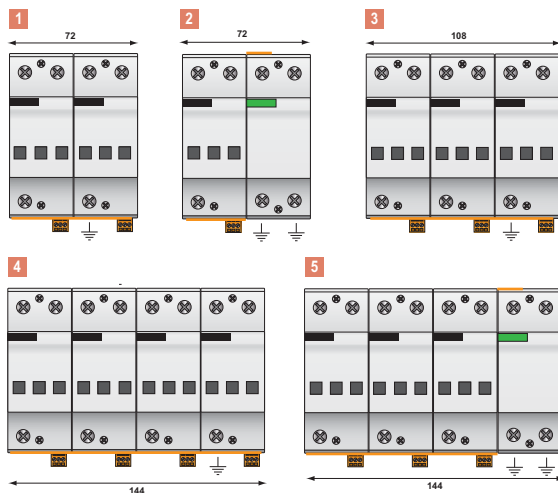


DS15x E-xxx/G

- « » = Configuration CT1 (common mode)
- «G» = Configuration CT2 (common and differential mode)
- Operating voltage (120, 300, 480)
- «E» = Enhanced «Varistor» technology
- Number of protected poles (2, 3, 4)

DS154E-300/G

## Dimensions and Electrical Diagrams



| Reference    | Part Number | Network                  | AC System          | Protection Mode |              | Iimp Total | Up L/PE | Up L/N | Diagram |
|--------------|-------------|--------------------------|--------------------|-----------------|--------------|------------|---------|--------|---------|
|              |             |                          |                    | Common          | Differential |            |         |        |         |
| DS154E-300/G | 2758        | 277/480 V 3-phase+N      | Wye                | ●               | ●            | 100 kA     | 2.5 kV  | 2.5 kV | 5       |
| DS154E-120/G | 2759        | 120/208 V 3-phase+N      | Wye                | ●               | ●            | 100 kA     | 1.5 kV  | 1 kV   |         |
| DS154E-480   | 3943        | 347/600 V 3-phase+N      | Wye                | ●               |              | 100 kA     | 2.5 kV  | -      | 4       |
| DS154E-300   | 3329        | 277/480 V 3-phase+N      | Wye                | ●               |              | 100 kA     | 2.5 kV  | -      |         |
| DS154E-120   | -           | 120/208 V 3-phase+N      | Wye                | ●               |              | 100 kA     | 1 kV    | -      | 3       |
| DS153E-480   | 3481        | 480 V 3-phase            | Delta              | ●               |              | 75 kA      | 2.5 kV  | -      |         |
| DS153E-300   | 3791        | 240 V 3-phase            | Delta              | ●               |              | 75 kA      | 2.5 kV  | -      |         |
| DS153E-120   | 3408        | 240 V 2-phase+N          | Split phase        | ●               |              | 75 kA      | 1 kV    | -      | 2       |
| DS152E-300/G | 3406        | 277 V 1-phase+N          | Single phase       | ●               | ●            | 50 kA      | 2.5 kV  | 2.5 kV |         |
| DS152E-120/G | -           | 120 V 1-phase+N          | Single phase       | ●               | ●            | 50 kA      | 1.5 kV  | 1 kV   | 1       |
| DS152E-480   | -           | 277 V 1-phase+N, 2-phase | Single/Split phase | ●               |              | 50 kA      | 2.5 kV  | -      |         |
| DS152E-300   | 3723        | 277 V 1-phase+N, 2-phase | Single/Split phase | ●               |              | 50 kA      | 2.5 kV  | -      |         |
| DS152E-120   | 3790        | 120 V 1-phase+N, 2-phase | Single/Split phase | ●               |              | 50 kA      | 1 kV    | -      |         |