OVR type 1 is designed to discharge high current surges without any destruction of the installation. This surge protective device is characterized by its capacity to withstand impulse current with 10/350 µs wave form which simulate direct impact coming from a natural lightning current. Type 1 SPDs are placed at the entrance point of the installation, in the main distribution board for a global protection of this installation.

- Din: The impulse current of 25kA per pole (10/350 µs wave) satisfies all requirements for overvoltage surge protection
- The early creation of the electric arc by its electronic ignition device reduces the protection level up to an optimum value of 2,5kV
- OVR T1 SPDs contain a dedicated arc chamber for extinguishing the electrical arc following the discharge, they can open short circuits up to 50kA without using back up protection.

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### Key characteristics

<table>
<thead>
<tr>
<th>Protection mode</th>
<th>Number of protected lines</th>
<th>Break throug time</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-L/L-N/L-PE/N-PE</td>
<td>T</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T1 Imp: 25 kA</th>
</tr>
</thead>
</table>

### Electrical characteristics

- **Maximal discharge current** $I_{m}$ (9/20) kA: 25
- **Maximal impulse current** $I_{imp}$ (10/350) kA: 25
- **Maximal continuous operating voltage** $U_{EC}$ V: 250
- **Type of current / frequency** $I_{T}$: a.c / 50
- **Voltage protection level at In** $U_{0}$ (L-PE): KV: 2,5
- **Voltage protection level at In** $U_{0}$ (L-N): KV: 2,5
- **Voltage protection level at In** $U_{0}$ (N-PE): KV: 2,5
- **Short circuit withstand** $S_{om}$ kA: 50
- **Total current** $I_{T}$ (max) kA: 150
- **Follower current interrupted** $I_{r}$ kA: 50
- **Ground residual current** $I_{g}$ kA: 50
- **LTV withstand (L-N, N-PE; 200 mm)** $U_{TLV}$ V: 450/1200
- **Voltage Combination Wave** $U_{DC}$ KV: -

### Required thermal / back up protection
- **Current B or C Circuit breaker** -
- **Short - B - L type** -
- **A - L type** -
- **Weight** -
- **Weight** -

### Mechanical characteristics

- **Dimensions** L x W x D mm: 90 x 64,5 x 42,4
- **Wire range - Solid wire** mm²: 2,5...50
- **Wire range - Stranded wire** mm²: 2,5...50
- **Braking length** mm: 15
- **Packing quantity** pieces: Per 1

### Miscellaneous characteristics

- **Maximal amplitude** m: 2000
- **Weight** g: 1100
- **Response time** $t_{R}$ ms: < 200
- **Fire resistance according to UL 94** V0
- **Replacement cartridges** -
- **Product / Product ID** -
- **Product / Product ID** -

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### Diagram

- PD1, PD2
- D1, D2
- L1, L2, L3
- N, PE
- 40 to 80 °C
- 93 %
- 3.5 Nm
- Power and productivity for a better world™