Introduction

Since 1980, Eaton’s Innovative Technology has provided Surge Protective Devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton’s Innovative Technology has a Surge Protective Device to fill it!

General Features

- Parallel configured, hard wire connected, Surge Protective Device
- Peak Surge Current — XT50: 50 kA
  XT100: 100 kA
- Application — Medium and low exposure level AC power service entrances, branch panels and/or individual equipment disconnects feeding all types of loads
- Warranty — 5 Year free replacement
- Unit Listings — UL® 1449 Third Edition; permanently connected; Type 1 and 2
- Nominal discharge current — 20 kA
- SCCR — 100 kA
- CE Compliant to IEC 61643-1 Test Classification I & II
- Vibration Tested to IEC 60255-21-1 & -2
- Manufacturer Qualifications — ISO® 9001:1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — NEMA® 4X (IP56) polycarbonate weatherproof enclosure (meets or exceeds NEMA 1, 2, 4, 4X, 12, 13)
- Mounting — Threaded conduit fitting and multi-point case mounting holes (external mounting feet available separately)
- Connection — #10 (6 mm²) stranded wire
- Weight — ≈2.0 lbs (1.0 kg)
- Operating Temperature — –13 to 140°F (–25 to 60°C)
- Protection — All Modes
- Input Power Frequency — 47–420 Hz (50/60 Hz typical)
- Diagnostics — LED indicators, 1 per phase, normally ON

Optional Features and Equipment

- External Mounting Feet

Standard Dimensions

External Mounting Feet

Dimensions are in inches [mm]

SECTION A-A

XT50/100

XT50/100 Models

Surge Protective Device

Submittal Spec Sheet

Eaton Innovative Technology®
## Performance Data

<table>
<thead>
<tr>
<th>XT50</th>
<th>System Configuration</th>
<th>Nominal System Voltage (Vac)</th>
<th>MCOV UL 1449-3 VPR *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>L-L</td>
<td>L-N</td>
</tr>
<tr>
<td>1S101</td>
<td>Split-Phase 3w + grnd</td>
<td>100/200, 110/220, 120/240</td>
<td>300</td>
</tr>
<tr>
<td>3Y101</td>
<td>3-Phase YStar 4w + grnd</td>
<td>100/175, 110/190, 120/208, 127/220</td>
<td>300</td>
</tr>
<tr>
<td>3Y201</td>
<td>3-Phase YStar 4w + grnd</td>
<td>220/380, 230/400, 240/415, 277/480</td>
<td>640</td>
</tr>
<tr>
<td>NN400</td>
<td>3-Phase 3w + grnd</td>
<td>380, 400, 415, 440, 480</td>
<td>1100</td>
</tr>
</tbody>
</table>

* UL 1449 3rd Edition VPR (Voltage Protection Rating) Test environment: All tests performed with 6” lead length, positive polarity.

## Ordering Guidelines

### XT

<table>
<thead>
<tr>
<th>Per Phase Peak Surge Current (kA)</th>
<th>Configuration &amp; Voltage Ranges (Vac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1P201 = Single-Phase – 200, 208, 220, 230, 240, 277</td>
</tr>
<tr>
<td>100</td>
<td>1S101 = Split-Phase – 100/200, 110/220, 120/240</td>
</tr>
<tr>
<td></td>
<td>3Y101 = Three-Phase WYE (Star) – 100/175, 110/190, 120/208, 127/220</td>
</tr>
<tr>
<td></td>
<td>3Y201 = Three-Phase WYE (Star) – 220/380, 230/400, 240/415, 277/480</td>
</tr>
<tr>
<td></td>
<td>NN201 = Three-Phase Delta – 200, 208, 220, 230, 240</td>
</tr>
<tr>
<td></td>
<td>NN400 = Three-Phase Delta – 380, 400, 415, 440, 480</td>
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</tbody>
</table>

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