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!

Innovative Technology Residential Surge Protectors are designed to protect residential electrical and electronic loads from external electrical transients. The ac modules can withstand up to 75 kA of surge current per phase and can be installed adjacent to the electrical service panel.

In addition to ac line Transient Voltage Surge Suppression (TVSS), surge suppressors for telephone and cable lines are available. The combination of ac, telco and cable TVSS isolates your sensitive electronics from the damaging effects of transient voltage events.

General Features
- Compact design
- LED suppression status indicators
- Modular protection
- Peak surge current capacity per phase (amperes):
  - 20 kA ITRSPMIC, 50 kA ITRSPMAX, 75 kA ITRSPULT
- Energy handling capacity per phase (joules):
  - 750 J ITRSPMIC, 1500 J ITRSPMAX, 3500 J ITRSPULT
- Weatherproof ac enclosure for outdoor installation
- Flushmount kit available
- Warranty replacement and equipment protection policy

ac Module Mechanical and Electrical Features
- Circuit design: bi-directional, internally fused, parallel connected
- Input power frequency: 50 – 420 Hz (60 Hz nominal)
- Response time: <1 nanosecond
- EMI/RFI attenuation: up to 41 dB
- Protection modes: L-L, L-N, L-G and N-G
- Diagnostics: super-bright LED indicator, normally on
- Circuit Interrupt — Reference installation instructions for details
- Warranty: lifetime
- Connected equipment coverage:
  - $25,000 ITRSPMIC, $50,000 ITRSPMAX, $75,000 ITRSPULT

Telco/Data Module Features
- Application: protects telephone, DSL, fax and modem lines
- Connection: RJ45 female plug connectors (4 telephone lines)
- Surge current capacity: 80,000 amperes
- Protection modes: tip-ring, tip-ground and ring-ground
- Data rate: up to 200 kbps
- Warranty: lifetime
- Connected equipment coverage: $10,000

Coaxial Module Features
- Application: protects cable TV, satellite and cable modem inputs
- Connection: Male F Type
- Surge current capacity: 20,000 amperes
- Protection modes: Line-G, Shield-G
- Frequency range: dc – 1.5 GHz
- Impedance: 75 ohms

Model Selection Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
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<tbody>
<tr>
<td>ac</td>
<td>ITRSPMIC</td>
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<tr>
<td></td>
<td>ITRSPMAX</td>
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<td></td>
<td>ITRSPULT</td>
</tr>
<tr>
<td>Data/Telco</td>
<td>ITRSPTEL</td>
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<tr>
<td>Coaxial/Cable</td>
<td>ITRSPCAB</td>
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<tr>
<td>Flushmount Kit</td>
<td>ITRSPFMK</td>
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Table 1. ITRSP System Specifications

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<tr>
<td>ITRSPMIC</td>
<td>20</td>
<td>750</td>
<td>Split-Phase 3-Wire and Ground</td>
<td>120/240</td>
<td>950</td>
<td>550</td>
<td>550 800 400 400</td>
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<tr>
<td>ITRSPMAX</td>
<td>50</td>
<td>1500</td>
<td></td>
<td>120/240</td>
<td>950</td>
<td>550</td>
<td>550 800 400 400</td>
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<tr>
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<td></td>
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<td>950</td>
<td>550</td>
<td>550 800 400 400</td>
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Test environment: all modes tested dynamic positive polarity. Time base = 1 ms. All voltages are peak (±10%), time base = 1 ms/div., voltages are measured from zero crossing. All tests performed with 6-inch (152.4 mm) lead length, simulating actual installation.

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