## Bourns® TISP® Telecom Overvoltage Protectors

### Product Selection Guide

#### FIXED VOLTAGE

<table>
<thead>
<tr>
<th>Series</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>TISP1xxx&lt;br&gt;Dual Unidirectional</td>
<td>• SLIC Linecard • 3-Wire Ground Backed Ringer • Solid State Relay • Surge Bars</td>
</tr>
<tr>
<td>TISP3xxx&lt;br&gt;Dual Bidirectional</td>
<td>• 2-Wire System • ISDN Subset • Modems • Telephones • Fax Machines • xDSL • Set Top Boxes • Surge Bars</td>
</tr>
<tr>
<td>TISP4xxx&lt;br&gt;Single Bidirectional</td>
<td>• SLIC Linecard • ISDN</td>
</tr>
<tr>
<td>TISP5xxx&lt;br&gt;Single Unidirectional</td>
<td>• 3-Wire Battery Backed Ringer • ISDN / Interwire</td>
</tr>
<tr>
<td>TISP7xxx&lt;br&gt;Triple Element Bidirectional</td>
<td></td>
</tr>
</tbody>
</table>

#### Dual Programmable

<table>
<thead>
<tr>
<th>Device Symbol</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Device Symbol" /></td>
<td>• SLIC Linecard • Ericsson PBL 3xx SLIC</td>
</tr>
<tr>
<td><img src="image2" alt="Device Symbol" /></td>
<td>• Dual SLIC Lines • Cable Modems • ISDN Power Feeds • Smart NT • Set Top Boxes</td>
</tr>
<tr>
<td><img src="image3" alt="Device Symbol" /></td>
<td>• POTS Linecard • Dual Supply Ringing SLIC</td>
</tr>
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</table>

#### GATED (PROGRAMMABLE)

<table>
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<tr>
<th>Series</th>
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<tr>
<td>TISP6xxxx&lt;br&gt;TISPPBL3&lt;br&gt;Dual Programmable</td>
<td>• SLIC Linecard • 3-Wire Battery Backed Ringer</td>
</tr>
<tr>
<td>TISP6NTP2x&lt;br&gt;Quad Programmable</td>
<td>• ISDN / Interwire</td>
</tr>
<tr>
<td>TISP8200M&lt;br&gt;(Typically used as a complimentary pair)</td>
<td>• Dual Programmable Unidirectional for Negative Polarity</td>
</tr>
<tr>
<td>TISP8201M&lt;br&gt;Dual Programmable Unidirectional for Positive Polarity</td>
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<tr>
<td><img src="image4" alt="Device Symbol" /></td>
<td>• SLIC Linecard • 3-Wire Battery Backed Ringer</td>
</tr>
<tr>
<td><img src="image5" alt="Device Symbol" /></td>
<td>• ISDN / Interwire</td>
</tr>
<tr>
<td><img src="image6" alt="Device Symbol" /></td>
<td>• Dual Programmable Unidirectional for Negative Polarity</td>
</tr>
<tr>
<td><img src="image7" alt="Device Symbol" /></td>
<td>• Dual Programmable Unidirectional for Positive Polarity</td>
</tr>
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#### Applications

- • SLIC Linecard
- • 3-Wire Ground Backed Ringer
- • Solid State Relay
- • Surge Bars
- • 2-Wire System
- • ISDN Subset
- • Modems
- • Telephones
- • Fax Machines
- • xDSL
- • Set Top Boxes
- • Surge Bars
- • SLIC Linecard
- • ISDN
- • 3-Wire Battery Backed Ringer
- • ISDN / Interwire
- • Dual SLIC Lines
- • Cable Modems
- • ISDN Power Feeds
- • Smart NT
- • Set Top Boxes
- • POTS Linecard
- • Dual Supply Ringing SLIC

DECEMBER 2000 - REVISED OCTOBER 2001
Device Configuration

**Fixed Voltage:**
- 1  = Dual Unidirectional
- 3  = Dual Bidirectional
- 4  = Single Bidirectional
- 5  = Single Unidirectional
- 7  = Triple Element Bidirectional

**Programmable Voltage:**
- 6, PBLx  = Dual Programmable
- 6NTPx  = Quad Programmable
- 8  = Dual Programmable Unidirectional

**Protection Voltage** \( V(BO) \)
(Not applicable for programmable devices)

**Surge Guarantee 10/1000**
- \( L \)  = 30 A
- \( F \)  = 35 A
- \( M \)  = 50 A
- \( H \)  = 100 A

**Holding Current (I_H)**
- 1  = 50 mA
- 3  = 150 mA
- 4  = 225 mA

**Delivery Option**
- BJR*  = SMBJ (DO-214AA)
- AJR*  = SMAJ (DO-214AC)
- DR*  = SOIC
- LM, LMR*  = DO-92 (Modified TO-92)
- LMFR*  = DO-92 (Formed Leads Version)
- SL  = Single In Line

* Supplied on tape and reel.

* Specifications are subject to change without notice.

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