The SSD is a solid-state device designed to simultaneously provide DC decoupling and AC continuity/grounding when used with cathodically protected structures, such as pipelines, tanks, and grounding systems. Using proven, solid-state construction, but with new production and packaging techniques, the SSD line lowers costs while offering a certified, fail-safe solution.

Features:
- Compact, lightweight package
- Fail-safe design assures bonding/grounding
- Certified for hazardous locations, electrical grounding
- Higher blocking voltage than polarization cells
- Inherent over-voltage protection provided to structure
- No maintenance or testing required
- Submersible design

Typical Applications:
- Gradient Control Mat Decoupling
- Insulated Joint Protection
- AC Voltage Mitigation
- Decoupling Electric Equipment Grounding Systems

Why Fault Current Is Important:
Fault current exposure for the product relates to the ampacity, proximity and mode of current transfer from a faulting source (power transmission line, motor circuit, induction from overhead lines, etc.). Select a product rating that has reasonable margin above the site conditions. Contact DEI for any assistance with selection of appropriate ratings.

<table>
<thead>
<tr>
<th>AC Fault Current Ratings (Amps AC-RMS Symmetrical)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SSD Model</strong></td>
</tr>
<tr>
<td>SSD-2/2-1.2-75-R</td>
</tr>
<tr>
<td>SSD-2/2-2.0-100-R</td>
</tr>
<tr>
<td>SSD-2/2-3.7-100-R</td>
</tr>
<tr>
<td>SSD-2/2-5.0-100-R</td>
</tr>
</tbody>
</table>

Note: Standard SSD models shown. For other options available, please visit www.dairyland.com

Other Ratings and Certifications:
- **Threshold Voltage (absolute)**
  -2/+2V (standard) -3/+1V (optional)

- **Lightning Surge Current**
  1.2kA Models: 75kA crest (4 x 10 μs waveform)
  All Other Models: 100kA crest (4 x 10 μs waveform)
  **AC Steady-State Current (amperes - rms) 50/60Hz**
  45A (Standard)

- **Environmental rating:**
  IP68 - submersible (to 2m depth)

- **Hazardous Location Certifications:**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Certification Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I, Division 2, Groups A, B, C, D Temp Code T5</td>
<td>UL, C-UL</td>
</tr>
<tr>
<td>Zone 2 - ATEX Directive, Groups II Temp Code T5</td>
<td>Demko/UL</td>
</tr>
</tbody>
</table>

Certification Agencies:
- Underwriter’s Laboratories (UL, C-UL)
- Demko, CE Mark

For model numbers, options and accessories, see full technical literature at www.dairyland.com