The SEL-2242 Chassis/Backplane is a 10-slot chassis for SEL Axion® systems. This data sheet provides installation instructions and specifications.

Front and Rear View

Figure 1  SEL-2242 10-Slot Front Panel, Rack-Mount

Figure 2  SEL-2242 10-Slot Rear View, Panel-Mount
Figure 6  SEL-2242 Dual 4-Slot Rear View, Panel-Mount
Device Placement

You can mount the Axion in a sheltered indoor environment (a building or an enclosed cabinet) that does not exceed the temperature and humidity ratings for the modules.

**NOTE:** For applications compliant with IEC-60255-27, surface-mount units must be installed in IP4X enclosures.

![Diagram of Axion dimensions](image-url)

**Figure 7** SEL-2240 10-Slot Rack- and Surface-Mount Dimensions
Figure 8  SEL-2240 4-Slot Rack- and Surface-Mount Dimensions
Protective Connector Covers

The SEL-2242 is shipped with protective covers installed in each backplane connector. Prior to installing any Axion modules, grasp either side of the connector cover and pull it straight out of the connector. We suggest that you leave the covers inserted in any unused slots in order to provide dust and mechanical protection.
## Specifications

### Compliance
- Designed and manufactured under an ISO 9001 certified quality management system
- UL Listed to U.S. and Canadian safety standards (File NRAQ, NRAQ7 per UL508, and C22.2 No. 14)
- CE Mark

### General

#### Operating Temperature Range
- 

#### Table: Environmental Tests

<table>
<thead>
<tr>
<th>Test</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration Resistance</td>
<td>IEC 60255-21-1:1988 Vibration Endurance, Severity: Class 2 Vibration Response, Severity: Class 1</td>
</tr>
<tr>
<td>Seismic</td>
<td>IEC 60255-21-3:1993 Quake Response, Severity: Class 1</td>
</tr>
<tr>
<td>Cold</td>
<td>IEC 60608-2-1:2007 –40°C, 16 hours</td>
</tr>
<tr>
<td>Dry Heat</td>
<td>IEC 60608-2-2:2007 +85°C, 16 hours</td>
</tr>
<tr>
<td>Damp Heat, Cyclic</td>
<td>IEC 60608-2-30:2005 25°C to 55°C, 6 cycles, 95% relative humidity</td>
</tr>
</tbody>
</table>

#### Dielectric Strength and Impulse Tests

<table>
<thead>
<tr>
<th>Test</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impulse</td>
<td>IEC 60255-5:2000 Severity Level: 0.5 Joule, 5 kV</td>
</tr>
<tr>
<td>Dielectric (HiPot)</td>
<td>IEC 60255-5:2000 IEEE C37.90:2005</td>
</tr>
<tr>
<td>Insulation</td>
<td>IEC 60255-5:2000 Severity Level: 500 V for greater than 1 minute</td>
</tr>
</tbody>
</table>

#### RFI and Interference Tests

<table>
<thead>
<tr>
<th>Test</th>
<th>Standard</th>
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</thead>
<tbody>
<tr>
<td>EMC Immunity</td>
<td>IEEE C37.90:3:2001</td>
</tr>
<tr>
<td>Electrostatic Discharge</td>
<td>IEC 60255-22-2:2008</td>
</tr>
<tr>
<td>Immunity</td>
<td>IEC 60100-4-2:2008 Severity Level 4 8 kV contact discharge 15 kV air discharge</td>
</tr>
</tbody>
</table>