**GENERAL INFORMATION**

The Relay Module is a dual, plug-in mechanical relay assembly for use in the Unison Dimming Series rack enclosures. Each Relay Module provides two electrically held relays, in the same form factor as standard dimmer modules. This enables designers to mix and match dimmer and relays for control of diverse loads. Ideal for control of non-dimmable load types such as HID lamps.

**APPLICATIONS**
- Designed for use in Unison 230V CE DRd Enclosures
- High Intensity Discharge ballasts (Metal Halide and High Pressure Sodium)
- Non-dimmed On/Off loads
- Motors
- Moving Light Power Supplies
- Power for fans and standard outlets
- Moving lights, fog machines and other powered effects

**FEATURES**
- Two 3kW or 5kW circuits per module
- Level-activated mechanical relays
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breakers

**GENERAL**
- CE Marked

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**ORDERING INFORMATION**

230V CE Relay Module

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER15</td>
<td>Dual 3K Relay Module - 230V</td>
</tr>
<tr>
<td>ER25</td>
<td>Dual 5K Relay Module - 230V</td>
</tr>
</tbody>
</table>

**COMPATIBLE SYSTEMS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRd6-12-230</td>
<td>230V CE 6 module rack enclosure (12 circuits)</td>
</tr>
<tr>
<td>DRd12-24-230</td>
<td>230V CE 12 module rack enclosure (24 circuits)</td>
</tr>
</tbody>
</table>

*Rack enclosures also available for 100-120, 240 and 277 Volt applications*
### Unison® 230V CE Relay Module

#### Standard Series

#### Specifications

**Physical**

**Module Dimensions**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>ER15</td>
<td>1.5</td>
<td>38</td>
<td>11.8</td>
</tr>
<tr>
<td></td>
<td>5.7</td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>ER25</td>
<td>1.5</td>
<td>38</td>
<td>11.8</td>
</tr>
<tr>
<td></td>
<td>5.7</td>
<td>145</td>
<td></td>
</tr>
</tbody>
</table>

**Module Weights**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT</th>
<th>SHIPPING WEIGHT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
<td>ER15</td>
<td>3.13</td>
<td>1.42</td>
</tr>
<tr>
<td></td>
<td>3.63</td>
<td>1.65</td>
</tr>
<tr>
<td>ER25</td>
<td>3.13</td>
<td>1.42</td>
</tr>
<tr>
<td></td>
<td>3.63</td>
<td>1.65</td>
</tr>
</tbody>
</table>

**Maximum BTU Production per module**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BTUS</th>
<th>WATTS</th>
<th>EFFICIENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER15</td>
<td>&lt;10</td>
<td>&lt;4</td>
<td>100%</td>
</tr>
<tr>
<td>ER25</td>
<td>&lt;10</td>
<td>&lt;4</td>
<td>100%</td>
</tr>
</tbody>
</table>

These values should be provided to a qualified HVAC design engineer, along with dimmer quantities, types and dimmer room dimensions, to calculate dimmer room air handling requirements.

Dimmer room HVAC systems must at all times maintain the specified ambient temperature at the dimmer rack. Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.

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**General**

- Dual density, plug in assembly, for use in Unison Dimming Series rack enclosures
  - 7183A1086 – 3KW
  - 7183A1087 – 5KW

**Physical**

- Cast aluminum chassis, finished with textured epoxy paint

**Circuit Breakers**

- Fully magnetic to eliminate nuisance tripping
- 20x inrush current rating
- 125%, 10-120 seconds, must-trip rating
- Rated for 100% switching duty applications

**Electrical Ratings**

- 22,000 amp Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads up to full rating
- For use with AC loads
- CE Marked

**Relays**

- 3K or 5K, level-activated mechanical relay
  - Rated for 200,000 full load activations
  - Rated for 5 million no load activations
- 3KW Relay Module rated for:
  - 14A General Purpose
  - 10A Tungsten
  - 2.0HP Motor maximum
- 5KW Relay Module rated for:
  - 23A General Purpose
  - 10A Tungsten
  - 3.0HP Motor maximum

**Power Device**

- Sealed, patented assembly
- 4000V isolation between control and power components
- Integral bonded heatsink

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Unison® products protected by one or more of the following: U.S. Patent No. 5,323,088, 6,849,943, and 5,352,958; European Patent No. 0603333; German Patent No. 69203609; US and International patents pending.