**GENERAL INFORMATION**

The Electronic Reverse Phase Control Dimmer Module is a dual, plug-in dimmer for use in the Unison and Sensor3 Dimming Series rack enclosures. The Electronic Reverse Phase Control Module provides cost effective, reverse phase angle dimming, of electronic transformer circuits. The design features high-density modular assembly, fully magnetic and fully rated circuit breakers, and electronic low-end set controls via control module.

**APPLICATIONS**
- Designed for use in 240V Unison DRd and Sensor3 enclosures
- Electronic low voltage transformers
- Electronic LED power supplies requiring reverse phase control

**FEATURES**
- Two 1.2kW dimmers per module
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breaker
- Electronic low-end set controls

**GENERAL**
- 65,000A Short Circuit Current Rating (SCCR)
- UL and cUL LISTED

---

**ORDERING INFORMATION**

**240 Volt Electronic Reverse Phase Modules**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HELV5</td>
<td>Dual 5A Electronic Reverse Phase Module, 240V</td>
</tr>
</tbody>
</table>

**Compatible Systems**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRd6-12-240</td>
<td>240V 6 module rack enclosure (12 circuits)</td>
</tr>
<tr>
<td>DRd12-24-240</td>
<td>240V 12 module rack enclosure (24 circuits)</td>
</tr>
<tr>
<td>HSR3-12</td>
<td>240V 12 Module Sensor3 Rack (24 circuits)</td>
</tr>
<tr>
<td>HSR3-24</td>
<td>240V 48 Module Sensor3 Rack (48 circuits)</td>
</tr>
<tr>
<td>HSR3-48</td>
<td>240V 96 Module Sensor3 Rack (96 circuits)</td>
</tr>
</tbody>
</table>

Rack enclosures also available for 100-120 and 277 Volt applications
# Specifications

## General
- Dual density, plug in modules, for use in Unison and Sensor3 Dimming Series rack enclosures
- Provides Reverse Phase Control dimming for electronic low-voltage transformers
- UL and cUL Listed
- HELV5 – 1.2kW

## Physical
- Modular plug-in assemblies
- 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
- 65,000A Short Circuit Current Rating (SCCR)
- UL and cUL Listed

## Power Device
- One signal and one fault LED per circuit
- 4000V isolation between control and power components
- Integral temperature sensor.

## Efficiency
- Efficiency is 98.7%

## Operation Modes

### Forward Phase Firing Mode

### Reverse Phase Firing Mode

## Physical

### Product Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>HELV5</td>
<td>1.5</td>
<td>38</td>
<td>11.8</td>
</tr>
</tbody>
</table>

### Product Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HELV5</td>
<td>2.4</td>
<td>1.1</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>HELV5</td>
<td>131.1</td>
<td>38.4</td>
<td>98.4%</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.