**GENERAL INFORMATION**

The Fluorescent Module is a single, plug-in dimmer for use in Unison Dimming Series Enclosures. The Fluorescent Module provides cost-effective digital forward phase angle dimming of 3-wire fluorescent dimming ballasts. The patented design features high-density modular assembly, fully magnetic circuit breaker and electronic low-end set controls.

**APPLICATIONS**
- Designed for use in 240V Unison DRd rack enclosures
- Linear fluorescent lighting with 3-wire dimming ballast*
- Compact fluorescent lighting with 3-wire dimming ballast*

**FEATURES**
- Single circuit 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

*Dimming range of fluorescent fixtures is dependent on the lamp-ballast combination. (Contact ETC for range of specific combinations)

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**ORDERING INFORMATION**

### 240 Volt Fluorescent Modules

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD15F</td>
<td>Single 15A Fluorescent 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>
</tbody>
</table>

*Rack enclosures also available for 100-120, 230 and 277 Volt applications
**ETC**

**Unison® 240V 3-Wire Fluorescent Module**

**Special Purpose Series**

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**SPECIFICATIONS**

**GENERAL**
- Single density, plug in assembly, for use in Unison Dimming Series rack enclosures
- UL and cUL Listed for continuous duty at 100% of rated load
  - HD15F – 3.6kW

**PHYSICAL**
- Cast aluminum chassis, finished with fine 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)
- Replaceable fuse on both the switched and the dimmed AC circuit for short circuit protection and fault current coordination
- Modules withstand “hot-patching” of cold fluorescent loads up to full rating
- UL and cUL LISTED

**POWER DEVICE**
- Sealed, patented assembly
- Field replaceable with screwdriver
- One control and one output LED
- 4000V isolation between control and power components
- Integral bonded heatsink
- Integral temperature sensor

**DIMMING RANGE**
- Dimming range dependent on lamp-ballast combination.
  (Contact ETC for range verification)

---

**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>HD15F</td>
<td>1.50</td>
<td>38</td>
<td>11.8</td>
</tr>
</tbody>
</table>

**Module Weights**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
<td>HD15F</td>
<td>2.4</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>3.3</td>
<td>1.5</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>HD15F</td>
<td>&lt;10</td>
<td>&lt;4</td>
<td>&gt;99.0%</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.

**SCR Rating**

<table>
<thead>
<tr>
<th>MODULE</th>
<th>HD15F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single cycle peak surge current</td>
<td>625A</td>
</tr>
<tr>
<td>Half cycle peak surge current</td>
<td>1620A</td>
</tr>
<tr>
<td>Transient over voltage</td>
<td>600V</td>
</tr>
</tbody>
</table>

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**INSTALLATION WIRING DETAIL**

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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. 0031335; German Patent No. 63203050; US and International patents pending.

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