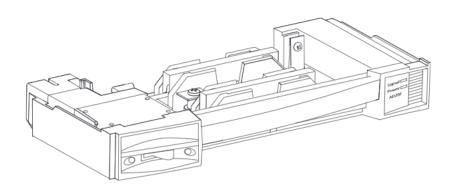
# **Unison® 277V Relay Module**





277V

# **Standard Series**



# 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 277V Unison DRd rack enclosures
- High Intensity Discharge ballasts (Metal Halide and High Pressure Sodium)
- Non-dimmed On/Off loads
- Motors
- · Power for fans and standard outlets
- Moving lights, fog machines and other powered effects

# **FEATURES**

- · Level-activated mechanical relays
- · Two circuits per module
- High-density modular assembly
- · Die-cast aluminum chassis
- Fully magnetic circuit breakers

## **GENERAL**

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

# ORDERING INFORMATION

# 277 Volt Relay Modules

MODEL	DESCRIPTION		
AR15	Dual 15 Amp Relay module, 277V		
AR20	Dual 20 Amp Relay module, 277V		

# Compatible Systems\*

MODEL	DESCRIPTION		
DRd6-12-277	277V 6 module rack enclosure (12 circuits)		
DRd12-24-277	277V 12 module rack enclosure (24 circuits)		

\*Rack enclosures also available for 100-120, 230, and 240 Volt applications



# **Unison® 277V Relay Module**

# **Standard Series**

### SPECIFICATIONS

#### GENERAL

- Dual density, plug in assemblies, for use in Unison Dimming Series rack enclosires
- . UL and cUL Listed for continuous duty at 100% of rated load
  - AR15 4.1kW
  - AR20 5.5kW

### **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**

- 65,000A Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads up to full rating
- UL and cUL LISTED

## RELAYS

- · 15 or 20 amp, level-activated mechanical relay
  - Rated for 200,000 full load activations
  - Rated for 5 million no load activations
- AR15 rated for 1.73HP at 13.8A
- AR20 rated for 3.46HP at 20.0A
- Rated for 20A General Purpose, 10A Tungsten and 1.5 HP Motor Maximum

# **POWER DEVICE**

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

### PHYSICAL

### **Module Dimensions**

MODEL	HEIGHT		EL HEIGHT WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
AR15/AR20	1.5	38	11.8	300	4.9	124

# **Module Weights**

MODEL	WEIGHT		SHIPPING WEIGHT		
	lbs	kgs	lbs	kgs	
AR15/AR20	2.6	1.2	3.5	1.6	

# Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY		
AR15/AR20	<10	<4	>99.0%		

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 quidelines to operate reliably.



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