



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



SPECIFICATIONS

GENERAL

- Dual density, plug in assemblies, for use in Unison Dimming Series rack enclosures
- 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		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 guidelines to operate reliably.



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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