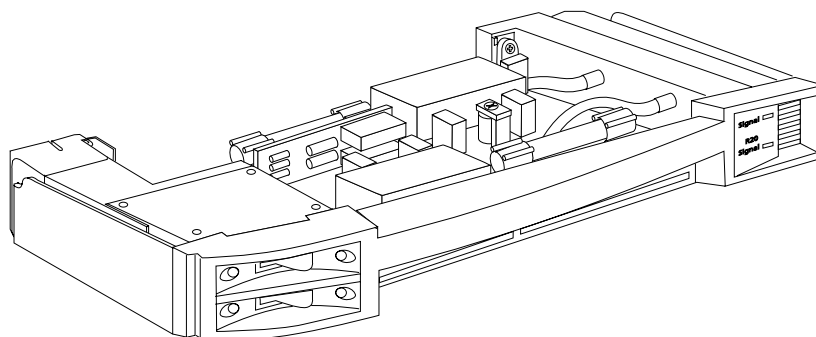


100V 120V



GENERAL INFORMATION

The Relay Module is a dual, plug-in mechanical relay assembly for use in both Sensor®+ and Unison® Dimming Series modular dimmer 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. Standard Relay Modules provide cost-effective switching while Advanced Features Relay Modules enable dimmer-specific feedback of load circuit data while performing switching in AF-capable Sensor+ dimmer enclosures.

APPLICATIONS

- 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

- 100,000A Short Circuit Current Rating (SCCR)
- UL and cUL LISTED

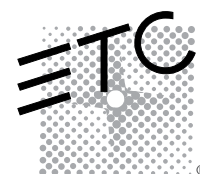
ORDERING INFORMATION

100-120 Volt Relay Modules

MODEL	DESCRIPTION
R15AF	Dual 15A Relay module, Advanced Features
R20AF	Dual 20A Relay module, Advanced Features

Compatible Systems

MODEL	DESCRIPTION
INSTALLATION RACKS	
SR3	Sensor3 Installation racks
SR+	Sensor+ Installation racks
SR	Sensor Installation racks
TOURING RACKS	
SP3	Sensor+ 24 module Touring Rack (48-20A dimmers)
SP+	Sensor+ 48 module Touring Rack (96-20A dimmers)
PORTABLE PACKS	
SP3	Sensor3 Portable Packs
SP+	Sensor+ Portable Packs



SPECIFICATIONS

GENERAL

- UL and cUL Listed for continuous duty at 100% of rated load
 - R15AF – 1.8kW
 - R20AF – 2.4kW

PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint
- Keyed to prevent insertion in inappropriately rated rack positions

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

- 100,000A 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
- R15AF rated for 0.75HP at 13.8A
- R20AF rated for 1.50HP at 20.0A
- Rated for 20A General Purpose, 10A Tungsten and 1.5 HP Motor Maximum

POWER DEVICE

- Sealed, patented assembly
- Standard modules have one control LED per circuit
- Advanced Features modules have one control LED and one output LED per circuit
- Integral bonded heatsink
- Advanced Features modules have built-in voltage and current sensors

ADVANCED FEATURES*

- Advanced Features error messages:
 - Load dropped below recorded value
 - Load increased over recorded value
 - SCR failed on/off
 - Circuit breaker tripped
 - Dimmer module removed
 - Dimmer load absent

*All AF modules support ETC's Advanced Features (AF) dimmer specific load reporting features when used in AF-equipped racks or packs

PHYSICAL

Module Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
R15AF	1.5	38	11.8	300	4.9	127
R20AF	1.5	38	11.8	300	4.9	127

Product Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
R15AF/R20AF	2.6	1.2	3.5	1.6

Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
R15AF	<10	<4	>99.0%
R20AF	<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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Sensor® products protected by one or more of the following U.S. Patent Numbers 5,323,088, 5,352,088, 7,233,112, 7,019,469, 6,849,943, and 6,002,563; European Number 0603333; German 69203609.