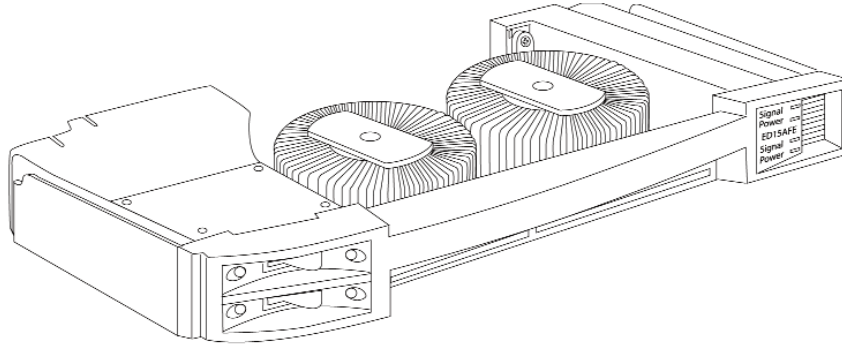


# Emergency Module

## Special Purpose Series



### GENERAL INFORMATION

The Emergency Modules are available as dual dimmers or relays with addition connections to provide sensing of power presence to external changeover equipment. The dimmer or relay operates as a normal single pole equivalent Sensor module. These modules enable the simple and efficient construction of fully automatic emergency transfer systems integrated with the Sensor system.

#### APPLICATIONS

- For use with Sensor+ powered area lighting where emergency egress of public requires fail-safe transfer of lighting circuits to an emergency power source.

#### FEATURES

- Two 3kW dimmer or relays per module with voltage sensing output per circuit.
- Modular assembly
- Die-cast aluminium chassis
- Fully magnetic circuit breakers

#### GENERAL

- CE Compliant

### ORDERING INFORMATION

#### 230 Volt Emergency Modules

PART NO.	DESCRIPTION
7070A1062	2 x 3kW ND AF Relay Module ER15AFE with Emergency Sense Connection
7070A1063	2 x 3kW ND 400uS AF Dimmer Module ED15AFE with Emergency Sense Connection

#### Compatible Systems

PART NO	DESCRIPTION
<b>SENSOR+ INSTALLATION RACKS</b>	
7171A1030	Sensor+ CE ESR48 Advanced (AF) Rack, 48 Modules, Neutral Disconnect (ND)
7171A1034	Sensor+ CE ESR36 Advanced (AF) Rack, 36 Modules, Neutral Disconnect (ND)
7171A1038	Sensor+ CE ESR24 Advanced (AF) Rack, 24 Modules, Neutral Disconnect (ND)
7171A1042	Sensor+ CE ESR12 Advanced (AF) Rack, 12 Modules, Neutral Disconnect (ND)

Emergency modules may only be used with single-pole protection where the neutral is permanently connected to the supply neutral. The positions designed to accept emergency modules must be fitted with neutral output lug hardware which are used to connect the breaker/power signal lines to external transfer equipment.

The transfer equipment operated from the emergency modules may not be fitted inside the Sensor racks and should be located in an adjacent supplementary equipment cabinet of suitable rating and construction.

# Emergency Module

## Special Purpose Series

### SPECIFICATIONS

#### GENERAL

- Dual dimmable lighting circuit
  - ED15AFE –3.0kW
- Dual switched lighting circuit
  - ER15AFE –3.0kW

#### PHYSICAL

- Modular plug-in assemblies
- Cast aluminium 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

- Modules withstand hot-patching of cold loads up to full rating

#### POWER DEVICE (ED15AFE DIMMER ONLY)

- Sealed, patented assembly
- Field replaceable with screwdriver
- Two back-to-back SCRs per circuit
- One control LED per circuit
- Integral bonded heatsink

#### POWER DEVICE - RELAY

- High inrush single pole electromechanical relay, non-latching
- One control LED per circuit
- 4000V isolation between control and power components
- High breaking-capacity backup fuses

#### LOAD RANGE

- All types of loads with inrush currents up to 20A instantaneous. Please contact ETC Technical Services for advice on calculating de-ratings for particular high-inrush loads.

### PHYSICAL

#### Module Dimensions

MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
All	38	300	127

#### Module Weights

MODEL	WEIGHT	SHIPPING WEIGHT
	kgs	kgs
All	1.1	1.5

#### Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
ED15AFE	<15	<200	>97%

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

MODULE	ED15AFE/ER15AFE
Single cycle peak surge current	625A
Half cycle peak surge current	1620A
Transient over voltage	600V