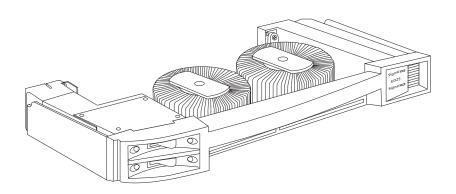
Unison® 230V CE Standard Module

(€ 230V

Standard Series



GENERAL INFORMATION

The Standard Dimmer Module is designed for use in Unison Dimming Series Enclosures. Standard Dimmer Modules provide cost-effective digital forward phase angle dimming for standard loads such as incandescent, low voltage, quartz, neon, cold-cathode and 2 and 4-wire fluorescent ballasts. The patented, high-density, dual modules feature modular installation and removal, fully magnetic circuit breakers and standard or enhanced risetime toroidal filters.

APPLICATIONS

- Designed for use in 230V Unison DRd rack enclosures
- Incandescent lighting
- Low voltage lighting
- Quartz lighting
- Neon lighting
- Cold Cathode lighting
- 2-wire Fluorescent ballast
- 4-wire Fluorescent ballast (with FLO Option Board)
- DALI ballast (with DALI Option Board)

FEATURES

- Two 3K dimmers per module or one 5K dimmer per module
- Standard (225 μ S) or Enhanced(350 μ S) risetime toroidal filters
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breakers

GENERAL

• CE Marked

ORDERING INFORMATION

230V CE Standard Modules

MODEL	DESCRIPTION		
ED6	Dual 1.3K 400 µS Dimmer Module		
ED10	Dual 2.3K 400 µS Dimmer Module		
ED15	Dual 3K 225µS Dimmer Module		
ED15E Dual 3K 400µS Dimmer Module			
ED25	Single 5K 225µS Dimmer Module		
ED25E Single 5K 350µS Dimmer Module			

Compatible Systems

MODEL	DESCRIPTION		
DRd6-12-230	230V CE 6 module rack enclosure (12 circuits)		
DRd12-24-230 230V CE 12 module rack enclosure (24 circu			

 $^{^*\}mbox{Rack}$ enclosures also available for 100-120, 240 and 277 Volt applications



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SPECIFICATIONS

GENERAL

- Listed for continuous duty at 100% of rated load
 - ED15/ ED15E Dual 3kW
 - ED25/ ED25E Single 5kW

PHYSICAL

- Modular plug-in assemblies
- 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

- 22,000 amp Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads up to full rating

POWER DEVICE

- Sealed, patented assembly
- Field replaceable with screwdriver
- Two back-to-back SCRs per circuit
- One control LED per circuit
- 4000V isolation between control and power components
- Integral bonded heatsink
- Integral temperature sensor

FILTERING

- High quality toroidal filters
 - 225µS rise time Standard 3K modules*
 - 400µS rise time Enhanced 3K modules*
 - 225µS rise time Standard 5K modules*
 - 350µS rise time Enhanced 5K modules*

*Risetime measured at full load, at worst case firing angle (about 50%), from 10-90% of output wave form

DIMMER RANGE

- Incandescent, low voltage dimming range 100-0%
- Dimming range of 2 and 4-wire fluorescent ballast is dependent on lamp ballast combination. Contact ETC for range verification
- Sizing of Neon transformer used in dimming applications should be 1.5x greater than size used in non-dimming application

PHYSICAL

Module Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ALL TPYES	1.5	38	11.8	300	5.7	145

Module Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
ALL TYPES	5.5	2.3	6.9	3.1

^{*}Weights and dimensions typical

Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
ALL TYPES	474	140	96.1%

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	15/25 AMP	
Single cycle peak surge current	625 amp	
Half cycle peak surge current	1620 amp	
Transient over voltage	600V	

