

Special Purpose Series



GENERAL INFORMATION

The Electronic Reverse Phase Control Dimmer Module is a dual, plugin dimmer for use in the Unison and Sensor3 Dimming Series rack enclosures. The Electronic Reverse Phase Control Module provides cost effective, reverse phase angle dimming, of electronic transformer circuits. The design features high-density modular assembly, fully magnetic and fully rated circuit breakers, and electronic low-end set controls via control module.

APPLICATIONS

- Designed for use in 240V Unison DRd and Sensor3 enclosures
- Electronic low voltage transformers
- Electronic LED power supplies requiring reverse phase control

FEATURES

- Two 1.2kW dimmers per module
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breaker
- Electronic low-end set controls

GENERAL

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

ORDERING INFORMATION

240 Volt Electronic Reverse Phase Modules

MODEL	DESCRIPTION		
HELV5	Dual 5A Electronic Reverse Phase Module, 240V		

Compatible Systems

MODEL	DESCRIPTION
DRd6-12-240	240V 6 module rack enclosure (12 circuits)
DRd12-24-240	240V 12 module rack enclosure (24 circuits)
HSR3-12	240V 12 Module Sensor3 Rack (24 circuits)
HSR3-24	240V 48 Module Sensor3 Rack (48 circuits)
HSR3-48	240V 96 Module Sensor3 Rack (96 circuits)

Rack enclosures also available for 100-120 and 277 Volt applications



Special Purpose Series

SPECIFIC ATIONS

GENERAL

- Dual density, plug in modules, for use in Unison and Sensor3 Dimming Series rack enclosures
- Provides Reverse Phase Control dimming for electronic lowvoltage transformers
- UL and cUL Listed
- HELV5 1.2kW

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

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

POWER DEVICE

- One signal and one fault LED per circuit
- 4000V isolation between control and power components
- Integral temperature sensor.

EFFICIENCY

• Efficiency is 98.4%

OPERATION MODES

FORWARD PHASE FIRING MODE



REVERSE PHASE FIRING MODE





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PHYSICAL

Product Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
HELV5	1.5	38	11.8	300	4.88	124

Product Weights

MODEL	WEIGHT		SHIPPING	6 WEIGHT
	lbs	kgs	lbs	kgs
HELV5	2.4	1.1	3.3	1.5

Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY	
HELV5	131.1	38.4	98.4%	

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.