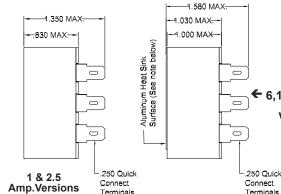
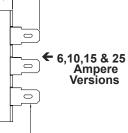


PCS SERIES **HIGH PRECISION AC PHASE CONTROL**



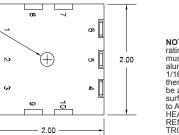
DIMENSIONS





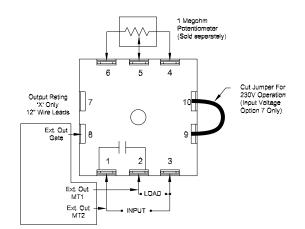


.250 Dia



NOTE: For maximum current rating the unit's metal backing must be installed against an aluminum surface of at least 1/16" thickness. A suitable thermal compound should be applied to the unit's metal. be applied to the unit's metal be applied to the unit's metal surface prior to mounting. Re to Application Note #AN1001 HEATSINKING HIGH CUR-RENT SOLID STATE CON-TROLS. Refer

CONNECTION DIAGRAM



FEATURES

- Fully Solid State
- 0 to 100% Adjustment Range
- Extremely Stable Over Voltage @ Temperature Variations
- Insensitive to Tolerances in Potentiometer Value
- Standard 1/4" Quick Connect Termination
- Encapsulated to Withstand Harshest Environments
- Small Size

SPECIFICATIONS

1. Input

- 1.1 Operating Voltage: 24, 120, 230 VAC &
- Selecable 120/230 VAC
- 1.2 Tolerance: ±20% Of Nominal 1.3 Frequency: 50 - 60 Hertz
- 2. Output
- - 2.1 Type: Solid State 2.2 Ratings:
 - - Blank 1 Amp Steady State, (10 Amp Inrush, 50 mA Min.)
 - A 6 Amp Steady State, (60 Amp Inrush, 200 mA min.).
 - B 10 Amp Steady State, (100 Amp Inrush, 225 mA min.)
 C 15 Amp Steady State, (150 Amp Inrush, 250 mA min.)

 - D 2.5 Amp Steady State, (50 Amp Inrush, 150 mA min.) H 25 Amp Steady State, (250 Amp Inrush, 500 mA min.)□

 - Maximum Plate Temperature: 85°C
 - □ Maximum Plate Temperature: 60°C
 - For external output option, (3) 12" wire leads are provided to connect to an externally mounted output triac.
 - Please consult factory for specific application assistance.
 - 2.3 Voltage Drop: 2.5 Volts Typical At Rated Current
 - 2.4 External Resistance: 1 Megohm = Minimum Output Voltage (24 VAC Units) 100K Ohm = Minimum Output Voltage
 - 2.5 Range: 0 100% of Line Voltage, Minus Voltage Drop
 - 2.6 Stability vs. Voltage & Temperature: ±0.5%

3. Protection

- 3.1 Transient: ±1500 Volts for 150 Microseconds
- 3.2 Dielectric Breakdown: 1500 Volts RMS Minimum

4. Mechanical

- 4.1 Mounting: One #8 or #10 Screw
- 4.2 Termination: 1/4" Quick Connect Terminals
- 4.3 Style: Surface Mount/Encapsulated With Heatsink Surface (See Dimension Diagram)

5. Environmental

- 5.1 Operating Temperature: -20°C to +80°C
- 5.2 Storage Temperature: -30°C to +85°C
- 5.3 Humidity: 95% Relative, Non-Condensing

MODE OF OPERATION AC PHASE CONTROL

Power is applied to the input terminals at all times. Adjusting the control potentiometer changes the voltage across the load. Adjustment range 0-100% minus (Vline - Vload)

ORDERING INFORMATION		
SERIES	INPUT VOLTAGE	OUTPUT RATING
PCS	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC 7 - 120/230 VAC	(Blank) - 1 Amp A - 6 Amp B - 10 Amp C - 15 Amp D - 2.5 Amp H - 25 Amp X - External Output Triac

