

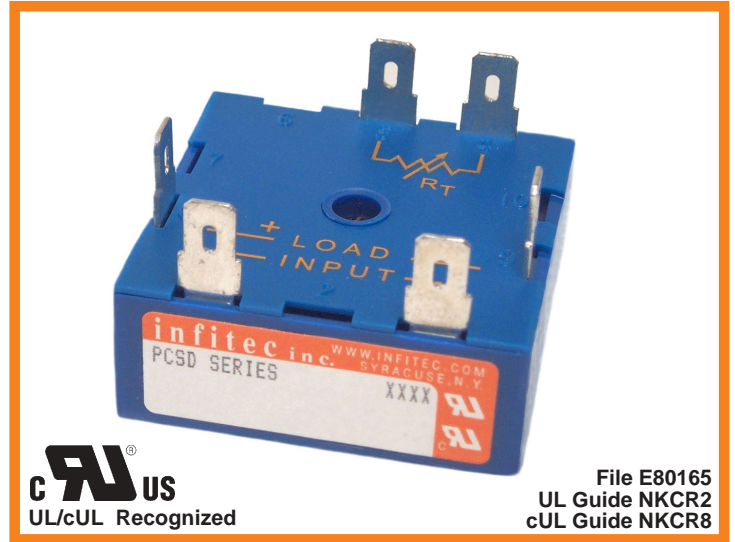


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PCSD SERIES DC MOTOR SPEED CONTROL

FEATURES

- Control DC Motor Speed Directly From AC Line
- Fully Solid State
- Adjustable Range 10% to 95% Of Line Voltage
- Small Size
- Standard 1/4" Quick-Connect Terminals
- Encapsulated To Withstand Harshest Environments
- UL/cUL Recognized



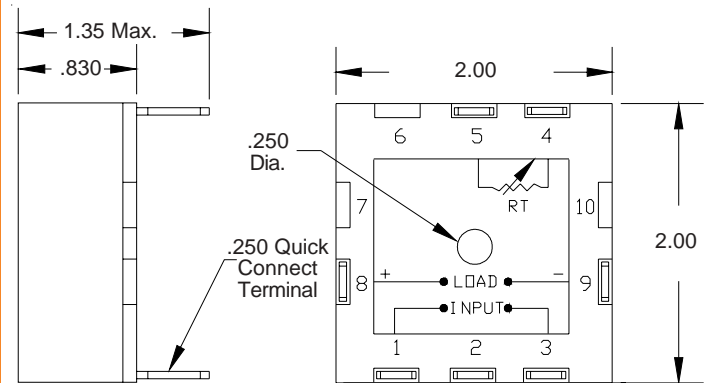
UL
 UL/cUL Recognized

File E80165
 UL Guide NKCR2
 cUL Guide NKCR8

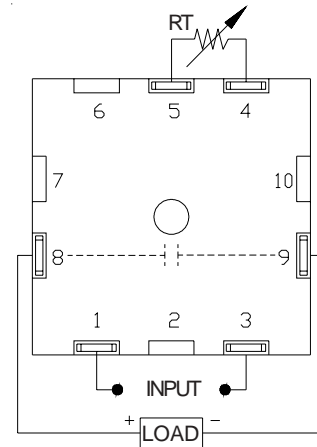
SPECIFICATIONS

- 1. Input.**
 - 1.1 Operating voltage: 24, 120 & 230 VAC
 - 1.2 Tolerance: $\pm 15\%$ of nominal
 - 1.3 Frequency: 60 Hertz
- 2. Output.**
 - 2.1 Type: Solid state
 - 2.2 Rating: 2.5 amperes
 - 2.3 Minimum load current: 100 milliamperes
 - 2.4 Voltage drop: 2.5 volts typical at rated current
 - 2.5 External resistance: 1 megohm = minimum output voltage (24 VAC units) 100K ohm = minimum output voltage
 - 2.6 Range: 10% to 95% of line voltage
 - 2.7 Output voltage vs. temperature: $\pm 5\%$
- 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
 - 4.3 Style: Surface mount / encapsulated
- 5. Environmental.**
 - 5.1 Operating temperature: -20°C to $+70^{\circ}\text{C}$
 - 5.2 Storage temperature: -40°C to $+85^{\circ}\text{C}$
 - 5.3 Humidity: 95% relative non-condensing

DIMENSIONS



CONNECTION DIAGRAM



MODE OF OPERATION

Power is applied to the input terminals at all times. Adjusting the control potentiometer changes the voltage across the load.

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT RATING	OUTPUT TRIMMING
PCSD	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	D - 2.5 Ampere	Blank - No Trimming 1 - Low End Trim 2 - High End Trim 3 - Low & High End Trim