Zesta Engineering Limited

ZPAC

Solid State Relay

Safe, Simple, Reliable

Temperature/Power Controllers

- Available for single-phase loads (up to 70 amp rated)
- Available for three-phase loads (up to 35 amp rated)
- Zero cross switching, Phase angle
- Up to 600 volt rated
- Large inventory

Stressed Out Over Short Heater Life?

If you are using electro-mechanical relays to control the switching of your heating process, your heater's life may be in jeopardy! Due to the slow switching frequencies of electro-mechanical relays, your heaters will experience wide temperature fluctuations between cycles. This causes the heater to expand and contract excessively, and experience what is known as thermal stress. Not only does this cause premature heater failure, it results in poor process control.

What's the solution? The ZPAC Solid State Relay, made by Zesta Engineering. Its fast switching capabilities allow for high speed cycling, leaving no time for wide temperature swings, and therefore no time for heater expansion and contraction. This reduces thermal stress, and therefore lengthens heater life. Your process will heat up smoothly, and you will have better temperature control.

Less stress, longer life.

- Custom SSR Assemblies are also available

1.800.755.5418

ZESTA ENGINEERING LTD.

www.zesta.com

ISO 9001 2000

• Electrical Process Heaters • Temperature/Power Controllers • Control Panels • Temperature Sensors

ZPAC

Specifications / Ordering Information

Specifications

Solid State Relay Control

- Single phase, single SSR
- Three phase, two leg control for three wire (non- grounded load) dual SSR
- Resistive loads
- Inductive loads (AT input only)

Input Options

- AC Input = 90-280 VAC. Drop out voltage 10V(rms)
- DC Input = 4-32 VDC. Drop out voltage 1 VDC
- MA Input = Burst firing (zero cross) control card. Input 4-20 mA only. Bias and Gain adjustable. Input impedance 500 ohms minimum.
- BT Input = Burst Firing (zero cross) control card, manual control (percent power) 1- phase only. Input, factory adjusted for 4-20 mA. Bias and Gain adjustable, 0-12 VDC / 0-25 mA. Input impedance 300 W (clip R-2 for 5 kW, voltage input).
- AT Input = phase angle control card, manual control (percent power) 1-phase only, input factory adjusted for 4-20 mA. Bias and Gain adjustable, 0-12 VDC/0-25mA. Input impedance 300 W (clip R-2 for 5 kW, voltage input). Soft start ten seconds (approx), 120-600 VAC to 24 VAC power transformer included, model dependent for AT and BT options.

Output

- 120 VAC through 600 VAC
- 10 - 70 Amps

Operating Ambient

- Temperature: -20° to 40° C

Line Frequency Range

- 47 to 80 Hz

Ordering Information

Z P A C – ___ – ___ – ___ – ___

Voltage

240 = 240 VAC
480 = 480 VAC
600 = 600 VAC

Current

10 = 10 amps
25 = 25 amps
35 = 35 amps
40 = 40 amps (single phase only)
70 = 70 amps (single phase only)

Control Mode

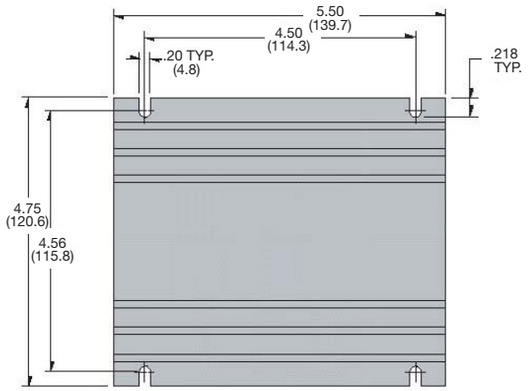
AC = AC input
DC = DC input
MA = MA input
BT = Burst Fired, Percent Power or Process Input (resistive loads) 1-phase only
AT = Phase Angle, Percent Power or Process Input single -phase only

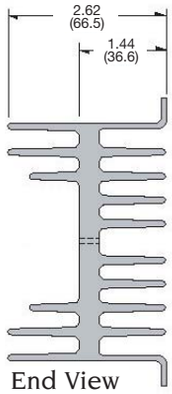
Phase

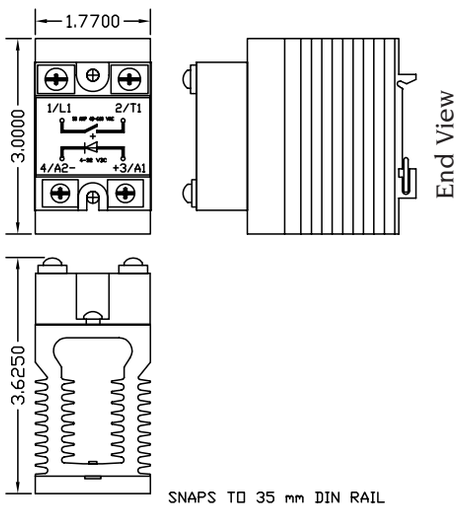
001 = Single Phase
002 = 3-phase (2 leg)
DIN = Single Phase - DIN Mount

Notes:

1. ZPAC-600-40-DC-001, ZPAC -600-25-DC-002 *and* ZPAC-600-25-DC-DIN *are stocked for same day shipment. All stock units have a voltage range of* 120 *to* 600 VAC. *All other items contact factory for delivery.*
2. *Three phase, two leg control used with burst fired* (MA) *or* AC, DC *inputs only.*
3. *Manual control kit* (part#08-5362) *is to be used with* AT *or* BT *input option* (*Percent Power*) *single phase only.*







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