#36TBP-1-5 STANDARD

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Model 36 Series Solid State Power Controls

INSTALLATION AND OPERATING NOTES

- 1. For resistive and inductive loads such as strip industrial heaters and DC field windings a minimum load resistance, R_L, is always implied by the input voltage and the current rating of your power control. Dividing the maximum output voltage (i.e. the input voltage) by the current rating will give you this value according to Ohm's Law.
- To provide for many years of reliable operation these units are fused at their maximum rating. These fuses are quite fast to provide millisecond short circuit protection as well as long-time over-load protection. Under normal operation they should never need to be replaced.

IMPORTANT: USE ONLY PAYNE ENGINEERING RECOMMENDED FUSES

3. SCRs require a small amount of current flowing through them in order to remain in the ON condition when applying power to a load. Therefore, with no load connected to the output terminals you cannot reliably check the operation of the unit. A 0.5 amp load hooked across the output terminals is generally sufficient to check the power control output prior to placing it in service.



WARNING! HIGH VOLTAGE ALWAYS PRESENT ON POWER TERMINALS

4. All standard Model 36 power controls are designed for operation at temperatures up to 100°F. Since the controls are only about 99% efficient, the approximately 1% of waste heat generated must be dissipated to the surroundings. Vertical panel mounting will provide the best cooling for long life. For 36TBP units, please take care to ensure that the mounting studs tightly secure the unpainted front surface of the 36TBP to the back of your mounting panel.



WARNING!

IMPROPER VENTILATION OF THIS UNIT AND/OR OPERATION IN AMBIENT TEMPERATURE OVER 40°C MAY DAMAGE THIS UNIT AND VOIDS ALL WARRANTIES.

Each and every solid-state power control is guaranteed to be free of defects in workmanship or component quality providing the unit is operating within its ratings.

RL MUST BE GREATER THAN 24 OHMS







