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REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	PRODUCTION RELEASE	2054	11/3/98	
B	LIGHT ON FAIL	2061	11/5/98	JAH 11/9/98

TRANSIENT SUPPRESSOR SPECIFICATIONS FOR 240V AC 10 A, 50/60Hz MODEL ACP 200 BW3

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UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING	DRAWN: K. POPE	DATE 3/26/92				
	CHECKED: JAH	11/19/98				
	ENGR. APPD: BDR	3/26/92	TITLE: <h2>ACP 200 BW3 SPECIFICATION</h2>			
	PROJ. APPD: DJR	11/23/98				
MATERIAL: NOTED	APPROVED:					
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			SCALE = N/A		PAGE 1 OF 4	

A.C. VOLTAGE SURGE SUPPRESSOR Model: ACP 200 BW3

1. **SCOPE:** This specification covers the detail requirements for a high-speed, solid state transient suppressor designed to protect electronic equipment and systems from transient overvoltages.
2. **PURPOSE:** This device is designed to eliminate the damaging effects to equipment from transient overvoltages which can appear on grounded 240V AC, 10A, 50/60 Hz power lines.
3. **GENERAL DESCRIPTION:** The ACP 200 BW3 is a solid-state transient suppressor for wire-in use on grounded 240V AC, 10A, 50/60 Hz power lines. The ACP 200 BW3 is both bi-polar and bi-directional; ie., it can suppress transients of either polarity and from either direction. (source or load)

The ACP 200 BW3 uses high speed silicon avalanche diodes as the suppression devices.

A fuse in parallel with the load will open if the suppressors fail due to excessive energy dissipation, and a normally "off" lamp will turn on indicating loss of suppression. Power at the load will not be effected.

4. **OPERATION:** When a transient overvoltage is sensed, the silicon avalanche diode (a passive, high-speed constant voltage device) goes into conduction while maintaining the voltage at a sufficiently low value to protect the attached equipment.

5. **PERFORMANCE REQUIREMENTS:**

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- 5.1. **MECHANICAL:** The construction and physical characteristics of the suppressor are as outlined herein.

5.1.1. **Enclosure Description:** The suppressor is enclosed within a rigid plastic case made from UL recognized plastic. The enclosure has the physical measurements shown in Fig. 1.

5.1.2. **Installation Requirements:** The ACP 200 BW3 is intended to be installed inside of a user provided enclosure. A four position terminal strip is provided for power connections.

5.1.3. **Material:** The material shall be as specified herein. However, when a definite material is not specified, a material shall be used which shall enable the device to meet the performance specifications defined herein.

5.2. **ELECTRICAL:** The suppressor shall perform electrically within the conditions and specifications defined herein.

5.2.1. **Suppressor Voltage Level (Minimum):** The ACP 200 BW3 has the following suppressor voltage level:

Hot to Neutral $\pm 440V \pm 5\%$

5.2.2. **Suppressor Voltage Level (Maximum):**

Hot to Neutral $\pm 600V$

5.2.3. **Peak Power Dissipation:** The peak power dissipation for a 10 x 2000 microsecond waveform is 12,000 watts.

5.2.4. **Response Time:** Less than 5 nanoseconds.

5.2.5. **Standby Power:** Less than 0.5 watt.

5.2.6. **Leakage Current:** Hot to Neutral @ 250Vrms – less than 5 microamps.

5.3. **ENVIRONMENTAL:**

5.3.1. **Operating and Storage Temperature:** -20°C to 50°C

5.3.2. **Humidity:** Less than 95%

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6. **PREPERATION FOR DELIVERY:** Domestic and short-term storage.

6.1. **PRESERVATION:** Preservation shall be sufficient to afford protection during shipment and short-term storage.

6.2. **PACKING:** Packing shall be accomplished in a manner which will insure acceptance by common carrier at the lowest rate and will afford protection against physical damage during shipment.



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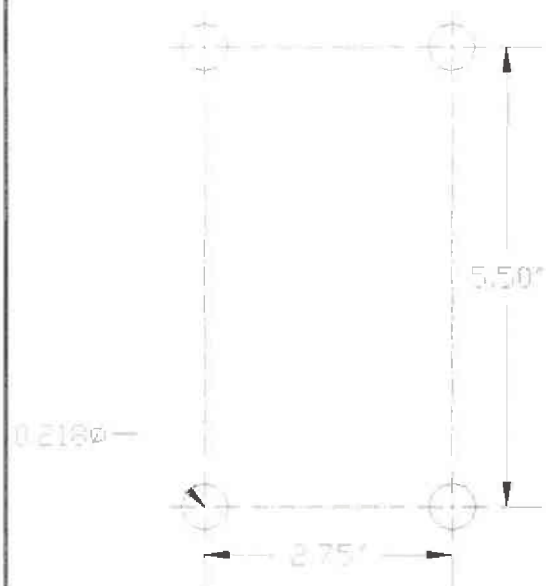
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RECOMMENDED
HOLE PATTERN

GENERAL
MECHANICAL OUTLINE

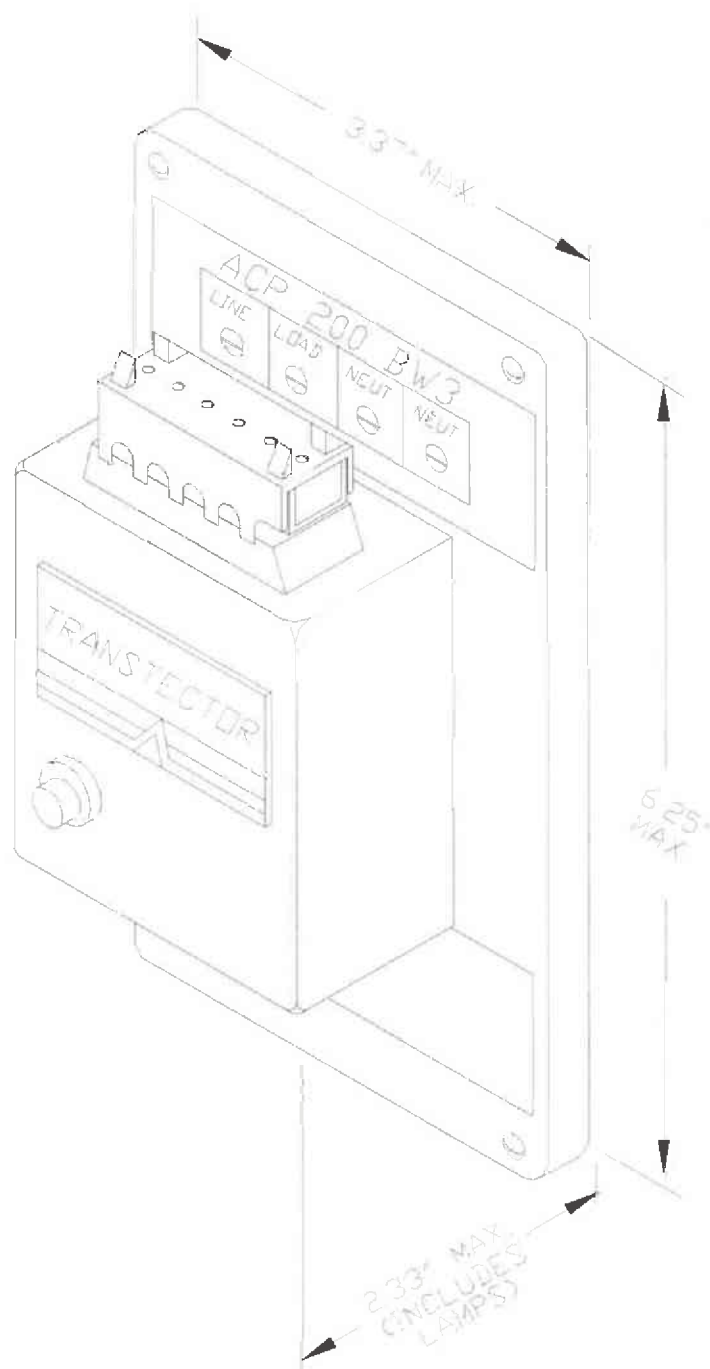


FIGURE 1

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TRANSTECTOR
SUPERIOR VOLTAGE SUPPRESSION

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