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TRANSIENT SUPPRESSOR SPECIFICATIONS

FOR 120VAC, 15A, 50/60Hz
MODEL ACP100BWN3

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MATERIAL:	APPROVED MEN YZ	1/01	SPECIFICATION ACP100BWN3					
Do not remove if Stamp mark is blue	NOTICE: THE INFORMATION AND DESIGN CONTAINED HERE-IN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO.		SIZE	58CM 30992	2	1400-181		REV A
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- 1.0 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.
- 2.0 <u>PURPOSE</u>: This device is to eliminate the damaging effects to equipment from transient overvoltages which can appear on grounded 120VAC, 15A, 50/60 Hz power lines.
- 3.0 GENERAL DESCRIPTION: The ACP100BWN3 is a solid-state transient suppressor for wire-in use on grounded 120VAC, 15A, 50/60Hz power lines. The ACP100BWN3 is both bi-polar and bi-directional; i.e., it can suppress transients of either polarity and from either direction. (source or load)

The ACP100BWN3 uses high speed silicon avalanche diodes as the suppression devices.

A fuse in series with the load will open if the suppressors fail due to excessive energy dissipation, and a normally "on" lamp will turn off, indicating loss of protection. Power will be off at the load.

4.0 <u>OPERATION</u>: 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.

5.0 PERFORMANCE REQUIREMENTS:

- 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 on sheet 4.
- 5.1.2 Installation Requirements: The ACP100BWN3 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.

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- 5.2 ELECTRICAL: The suppressor shall perform electrically within the conditions and specifications defined herein.
- 5.2.1 Suppressor Voltage Level (Minimum): The ACP100BWN3 has the following suppressor voltage level:

Hot to Neutral

±220v ±5%

5.2.2 Suppressor Voltage Level (Maximum):

Hot to Neutral

+330v

- 5.2.3 Peak Power Dissipation: The peak power dissipation for a 1 x 1000 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 @ 120vrms 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%
- 6.0 PREPARATION 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 the 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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