REVISIONS				
LTR	DESCRIPTION	ECN	DATE	APPROVED
C	Undocumented	?????		
D	Re-design	DD045	3/17/06	MLH
E	Add Module Lights	6749	4/19/07	DLR

DRAWN: JDW	DATE: 1/12/06
CHECKED: RRR	3/18/06
ENGRG APPD: DLR	3/17/06
PROJ APPD: JN	3/21/06
APPROVED	

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TITLE

Spec ACP 2900/3900 277W

DOCUMENT NUMBER: 1400-088

REV: E

CAGE: 30992

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1.0 GENERAL MODEL DESCRIPTION

ACP 2900/3900 277W For 277/480 3 Ø Wye systems

The ACP 2900/3900 277 W Series surge suppressors are high-speed, high current, solid-state devices designed to protect electronic equipment and systems from transient over voltages. They perform this function by limiting the magnitude of transient over voltages present on A.C. power lines. The suppressor will provide continuous bipolar bi-directional, non-interrupting protection and be capable of instant automatic reset with no degradation in protection capabilities. The suppressor is solid-state, utilizing Silicon Avalanche Suppressor Diodes. The suppressor assembly is installed in parallel with the load. The device is contained in a NEMA Type 4 enclosure. A transient counter, audible alarm, status LED and dry contacts are included.

2.0 SPECIFICATION/PERFORMANCE

2.1. Continuous Operating Electrical Specifications:

2.1.1. Nominal Operating Voltage: ..... 277/480 Vrms
2.1.2. Frequency Range:..... 50/60 Hz
2.1.3. Phases 3
2.1.4. Wire Configuration ..... Wye
2.1.5. Maximum Continuous Operating Voltage (MCOV) L - L ..... 600 Vrms
2.1.6. Relay Contact Ratings.....0.3A 125 Vrms

2.2. Mechanical Specifications:

2.2.1. Enclosure Type ..... NEMA 4
2.2.2. Enclosure Material ..... Steel
2.2.3. Enclosure Dimensions.....(406.4 x 508 x 178mm)16" x 20" x 7"
2.2.4. Weight, Fully Loaded .....(20.4 Kg) 45Lb.

2.3. Surge Specifications:

2.3.1. Testing Per ANSI/IEEE C62.45 1992,IEEE C62.41 1991 Wave Shapes
2.3.1.1. Location Category C3 : 10000Amps
2.3.2. Response Time (Max.) : .....5 Nanoseconds
2.3.3. Standby Power (Max.) : ..... < 5 watts

2.4. Electrical Connections/Installation Requirements:

2.4.1. Input:..... MIN #6 AWG, MAX 1/0 AWG

3.0 INSTALLATION INSTRUCTIONS

3.1. Power Connections:

Install the suppressor off of a dedicated branch disconnect rated at no more than 60 amps. Connect the suppressor using the largest wire possible (suppressor wire range = #6 AWG –to- 1/0 AWG) and the shortest length possible.

3.2. Remote Annunciation Connections:

The PBSM module on the inside of the door has three screw terminals for remote status monitoring. These terminals are rated for a maximum of 0.3 Amps at 125 Vac or 1 Amp at 30 Vdc. The wire range is 18 AWG –to- 22 AWG.

3.3. Transient Counter:

The counter display on the front of the unit displays the number of transients the unit has suppressed. To reset the count, press the red button on the display.

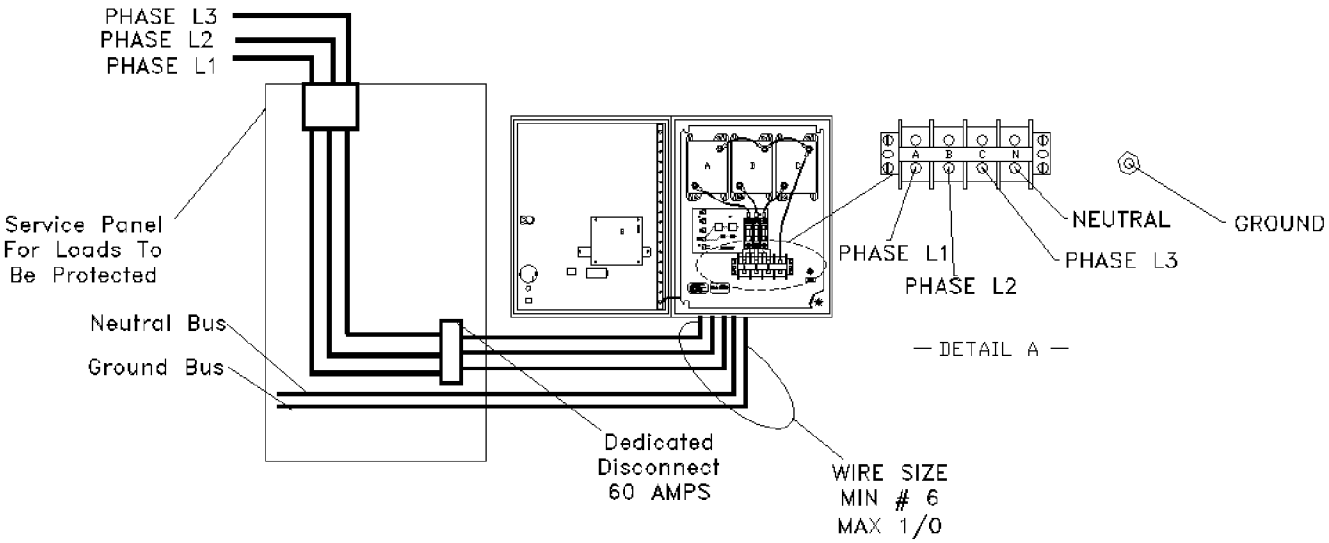
3.4. LED Indicators, Audible Alarm, Reset:

On the front of the suppressor, the LED indicator is green during normal operation and red in the event of loss of phase power or of a suppression module. On the inside of the suppressor cabinet, each module has a status LED near the fuse block. Each one of the LEDs is lit when there is phase power and the module is operating normally. In the event of the failure of a single module, the light for that module (A, B, C) will extinguish (contact Transtector 01-208-772-8515 for replacement modules and fuses). The audible alarm indicates loss of phase power or of a suppression module. It can be switched on via the rocker switch below it. The audible alarm and the LED indicator can be reset with the “Reset” push-button.

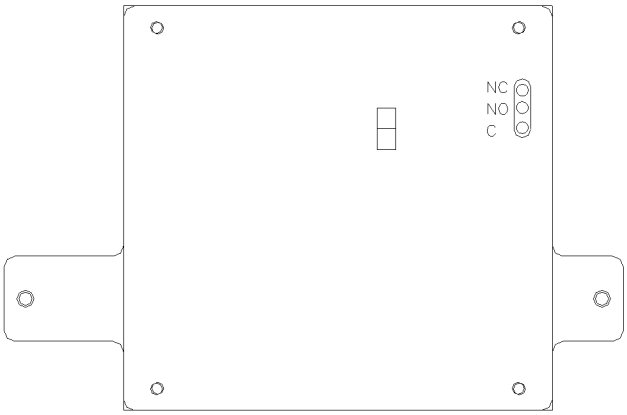
4.0 ENVIRONMENTAL

4.1. Operating Temperature:..... -40°C to +85°C
4.2. Storage Temperature:..... -40°C to +85°C
4.3. Relative Humidity:..... 95%

APPENDIX A: WIRING DIAGRAM



Dry Contacts (Shown Energized):



MECHANICAL LAYOUT