

REVISIONS				
LTR	DESCRIPTION	ECN	DATE	APPROVED
A	UPDATE PRODUCT NAME	4745	01/14/03	CDD
B	UPDATE FOR REDESIGN		08/13/03	JDW
C	UPDATE FOR UL497 DESIGN	5793	06/30/05	MLH
D	UPDATE FOR UL497 LISTING	6436	09/01/06	MLH



DRAWN	DWR	DATE	05/07/02	 Transtector Systems, Inc. 10701 Airport Road, Hayden, ID 83835 800.882.9110 208.772.8515 www.transtector.com
CHECKED	NLD		09/12/02	
ENGRG APPD	CDD		09/12/02	
PROJ APPD	JDW		09/13/02	
APPROVED				
NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL RIGHTS RESERVED.				TITLE PRODUCT SPECIFICATION ALPU-ALVR
DOCUMENT NUMBER				REV
1400-446				D
CAGE				PAGE 1 of 3
30992				

1.0 GENERAL MODEL DESCRIPTION

ALPU-ALVR, 1101-640

The ALPU-ALVR surge suppressor is a high-speed, high-current solid state device that is designed to protect (2) 55VDC Ethernet CAT-5 communication pairs, (1) 55VDC pair, (1) 55VDC Reset Wire and (1) 55VDC LED Signal wire. **The ALPU-ALVR is a UL497 listed signal circuit protector and is appropriate for use as either a primary or secondary protector. The ALPU-ALVR surge suppressor uses only silicon avalanche suppressor diodes (SASD).** It connects to the service in a pass-through configuration. All input and output connections terminate at 110-style IDC connectors. Both the input and output cable harnesses pass into the suppressor housing via waterproof strain reliefs. The suppressor is housed in a molded plastic enclosure that is designed to meet NEMA 3R.

2.0 ELECTRICAL SERVICE:

- 2.1. Nominal Operating Voltage: 55VDC (All Pins)
- 2.2. Maximum Continuous Operating Voltage (MCOV): 90VDC (All Pins)
- 2.3. Maximum Continuous Current 1A
- 2.4. Transfer Rate
 - 2.4.1. Ethernet/Signal Lines: Cat-5
 - 2.4.2. DC DC
- 2.5. Input/Output Connection: IDC
- 2.6. Wire Configuration
 - 2.6.1. Ethernet: 2 pair
 - 2.6.2. DC: up to 4 wire
 - 2.6.3. Reset Wire: 1 wire
 - 2.6.4. LED Signal Wire: 1 wire

3.0 ELECTRICAL PERFORMANCE:

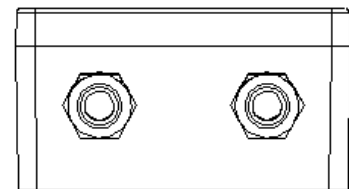
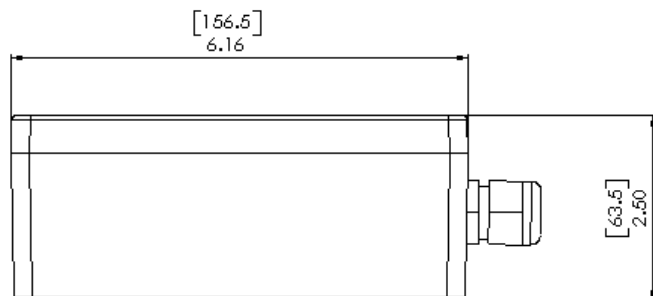
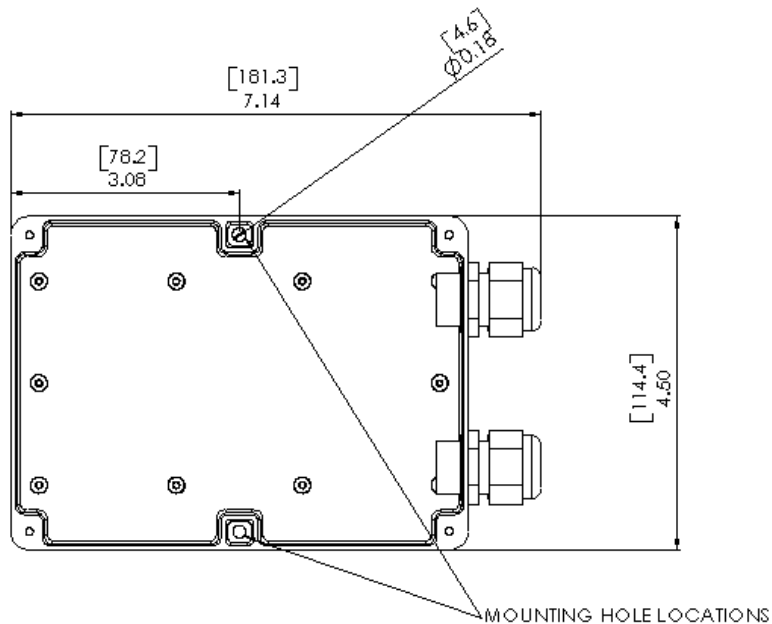
- 3.1. Protection Modes: Line to Line, Line to Ground (All Pins)
- 3.2. Tested to IEEE/ANSI C62.41 10/1000 μ s Long Wave
 - 3.2.1. Peak Current 150Apk
 - 3.2.2. Voltage Protection Level (Vpl) 130Vpk @ 150A 10/1000 μ s
- 3.3. Tested to IEEE/ANSI C62.41 8/20 μ s Combination Wave
 - 3.3.1. Peak Current 1500Apk
 - 3.3.2. Voltage Protection Level (Vpl) 152Vpk @ 1500A 8/20 μ s
- 3.4. Peak Power Dissipation 20,000 Watts
- 3.5. Response Time (Max.) 5 nanoseconds

4.0 ENVIRONMENTAL SPECIFICATIONS:

- 4.1. Operating/Storage Temperature..... -40°C to +85°C
4.2. Enclosure Rating Designed to meet NEMA 3R
4.3. Flame Rating UL 94-V5

5.0 MECHANICAL/INSTALLATION:

- 5.1. Transtector Installation Document..... 1200-148
5.2. Enclosure Dimensions:..... 6.16" LG X 4.5" WD X 2.5" DP
5.3. Wiring (2) Multi-conductor cables up to 0.375" diameter
5.4. Mounting..... Mounts w/ #6 hardware (see below)



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