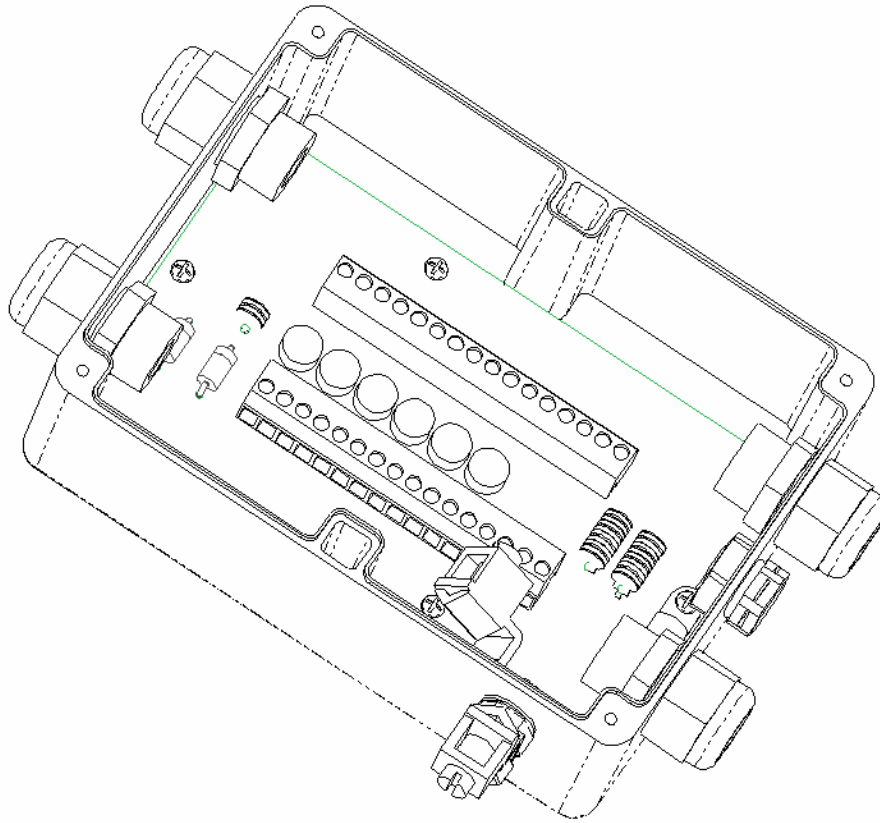


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REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
O	PRODUCTION RELEASE		8/07/02	DWR
A	CONVERT MAPS TO ALPU	4690	10/25/02	JEB



UNLESS
OTHERWISE
SPECIFIED DIM.
IN INCHES
BEFORE
PLATING

MATERIAL:

NOTED

DRAWN:

DWR

CHECKED:

CDD

ENGR. APPD:

MLH

PROJ. APPD:

BM

APPROVED:

DATE

8/07/02

8/9/02

8/9/02

8/9/02

TRANSTECTOR®

SUPERIOR SURGE SUPPRESSION

TITLE:

ALPU 3E48D
Transtector PN: 1101-649

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SIZE

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CAGE

30992

DRAWING NUMBER

1400-460

REV

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SCALE = N/A

PAGE 1 OF 3

SURGE SUPPRESSOR Model: ALPU 3E48D

1. **GENERAL DESCRIPTION:** The ALPU 3E48D surge suppressor is a high-speed, high-current solid state device designed to protect (3) Ethernet CAT-5 lines and (1) 48 VDC line. **The ALPU 3E48D uses only silicon avalanche suppression diodes (SASD).** It connects to the service in a pass through configuration. The input and output Ethernet connections terminate at two "screw type" terminal blocks. The input and output 48 VDC connections terminate at two screw terminal blocks. All wire harnesses pass into the suppressor housing via waterproof strain reliefs. The molded plastic enclosure is also waterproof, and features integrated mounting holes that are concealed by the cover and an integrated gasket plus a "Membrane Vent" to release any build-up of pressure and moisture due to cable wicking and enclosure heating.

2. PERFORMANCE REQUIREMENTS:

2.1. Electrical Service:

2.1.1. Ethernet

- 2.1.1.1. Transfer rateCAT-5, 10/100 Mb/s
- 2.1.1.2. Configuration6 pair
- 2.1.1.3. Input ConnectionScrew-Term Block (24-16 AWG)
 - 2.1.1.3.1. Number of connector positions12
- 2.1.1.4. Protection ModesLine to Line, Line to Ground
- 2.1.1.5. Maximum Continuous Operating Voltage20 VDC

2.1.2. 48 VDC

- 2.1.2.1. Service Voltage48 VDC
- 2.1.2.2. Configuration2 wire
- 2.1.2.3. Input ConnectionScrew-Term. Block (22-16 AWG)
 - 2.1.2.3.1. Number of connector positions2
- 2.1.2.4. Protection ModesLine to Line
- 2.1.2.5. Maximum Continuous Operating Voltage80 VDC

2.2. Electrical Performance:

2.2.1. Ethernet

2.2.1.1. Testing:

- 2.2.1.1.1. Tested to IEEE/ANSI C62.41 10/1000 Long Wave
 - 2.2.1.1.1.1. I_{pk}150 A peak
- 2.2.1.2. Response Time (Max)5 nanoseconds
- 2.2.1.3. Peak Power5000 Watts

2.2.2. 48 VDC

2.2.2.1. Testing:

- 2.2.2.1.1. Tested to IEEE 10/1000 Long Wave
 - 2.2.2.1.1.1. I_{pk}300 A peak
- 2.2.2.2. Response Time (Max)5 nanoseconds
- 2.2.2.3. Peak Power10,000 Watts

2.3. Mechanical:

- 2.3.1. **Enclosure Description:** The suppressor is housed in a molded plastic enclosure that is 6.13" long, 4.5" wide and 2.5" tall. The enclosure mounts with #6 hardware.

3. ENVIRONMENTAL:

- 3.1. **Operating Temperature:**-40°C to +80°C
3.2. **Storage Temperature:**-40°C to +80°C
3.3. **Relative Humidity:**100%(non-condensing)

4. MECHANICAL/INSTALLATION

- 4.1. **Enclosure dimensions:** Specified above in Section 2.3.1.
4.2. **Mounting data:** Mounting hardware provided in packaging supplies.
4.3. **Wiring data**
4.3.1. The ALPU 3E48D is designed to accept (4) multi-conductor cables with an outside diameter up to .370".



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