

WARNING

1. RISK OF ELECTRICAL SHOCK!
2. Disconnect before servicing.
3. Service to be performed by qualified personnel only.



APEX IMAX HT

HT-AI-IMAX-120S

INSTALLATION INSTRUCTIONS



Thank you for your recent purchase of our surge protection solution. Your satisfaction with our product and service is important to us. If you have any questions, comments or concerns, please contact us at 800.882.9110 or visit our website at transtector.com. We look forward to continuing to serve your protection needs.

HT-AI-IMAX-120S

Installation Instructions

The HT-AI-IMAX-120S Protection Module is designed to provide EMP protection for equipment and facilities per Department of Homeland Security (DHS) and the Alliance for Telecommunications Industry Solutions (ATIS) guidelines, and have been tested for survivability to the peak threat levels of the harsh Early Time (E1) and Intermediate Time (E2) High-Altitude (HEMP) environments as defined in MIL-STD-188-125.

The HT-AI-IMAX-120S Protection Modules utilize high-power, solid-state Silicon Avalanche Suppression Diodes (SASD) to provide robust, non-degrading protection against nominal transients. These modules are intended for use in 120/240VAC single or 120/208VAC three phase systems.

MOUNTING

The HT-AI-IMAX-120S Protection Modules feature a plastic enclosure with 2 mounting tabs (See Figure 1) designed to accept #8 hardware. The modules are intended to be installed in a service panel or transfer switch.

WIRING

The HT-AI-IMAX-120S shall be installed parallel with the load or electrical system wiring. Keep all wires as short as possible between the surge protector and the equipment being protected. Less than 3 feet, #6 AWG stranded wire is recommended for optimum performance. Refer to local codes and equipment manufacturers standards before installation.

EXTERNAL DISCONNECT

It is recommended that the suppressor be installed off a dedicated disconnect, molded case switch or circuit breaker with a minimum 60 Amp rating. This provides a safe means for electrical system power up or disconnect. The disconnect means should be sized for use with the appropriate gauge wire for the application and fault current rating of the power distribution system components. Using the recommended disconnect means, in addition to minimizing wire length between the disconnect and the protector, will ensure that the disconnect does not nuisance trip during extreme HEMP or lightning events, and will result in maximum efficacy by the protector.

GROUNDING

Proper grounding is critical for adequate HEMP protection. Keep all site ground wires as short as possible. Refer to local codes and equipment manufacturers standards before installation.

USAGE AND MAINTENANCE

Each module should be scheduled for periodic inspection to ensure the module is operational and all wire connections are tight. Disconnect power prior to inspection and maintenance. If the module is damaged, contact Transtector for replacement.

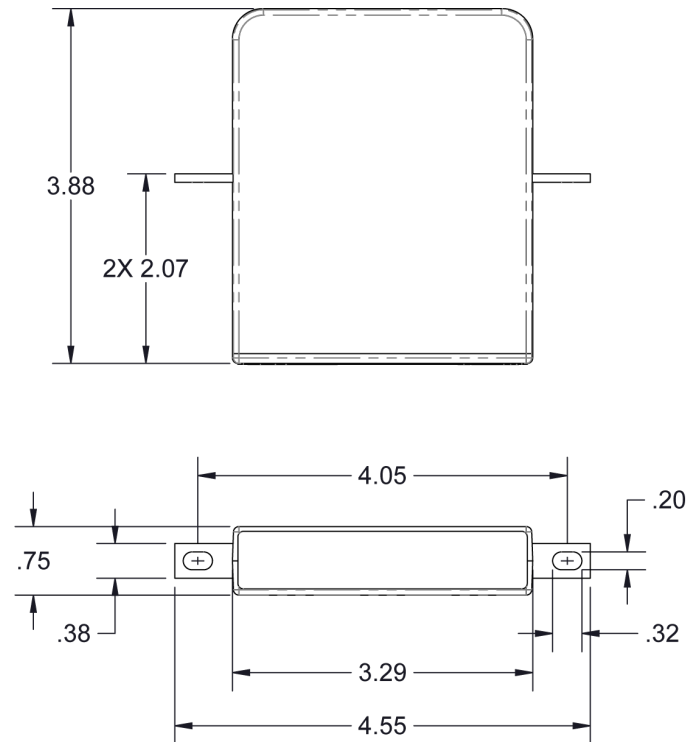


Figure 1 - Mechanical outline drawing (inches)