

WARNING

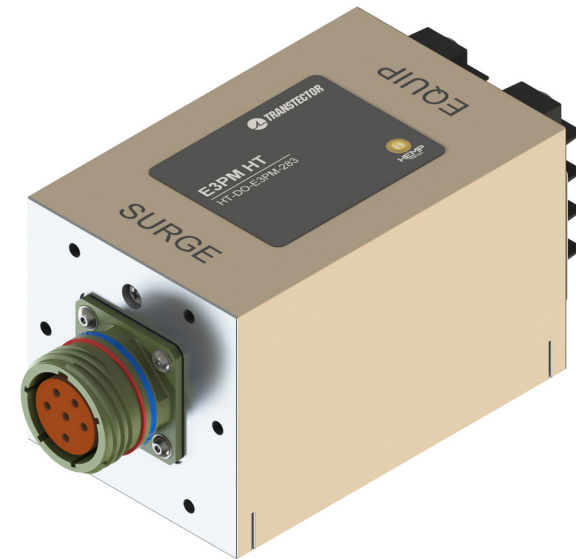
1. IMPORTANT SAFETY INSTRUCTIONS
2. Use each model on specified application only.
3. This product contains cadmium and lead which are considered to be hazardous waste. Please dispose of according to Federal, State, and local governmental regulations.
4. Warning! Disconnect power upstream from the device when wiring to avoid potential shock hazard and product damage.



E3PM HT

HT-DO-E3PM-283

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-DO-E3PM-283

Installation Instructions

The HT-DO-E3PM-283 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-DO-E3PM-283 utilizes 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 28 Vdc, 13 A systems, and can be wired for up to a 30A system.

MOUNTING

Install the EMI gasket provided between the LINE side of the device and the cabinet panel with a 360 degree seal to maintain the integrity of the internal EMI boundary. Apply thread locker to the #6-32 x 3/8" stainless steel screws and install with lock washers into the six (6) mounting holes (dimensions shown). Torque hardware to 7 in-lbs. The device is designed to be installed inside an EMI rated cabinet.

WIRING

Install input cable to the surge side using mating connector (D38999/26WE6SN) using pin-out shown. Install 12 AWG MAX into output connectors using pin-out shown in Table 1 for 13 A applications. For 30 A applications, wire all three 28 Vdc lines together (PINS A-C) and all three Return lines together (PINS D-F) for a single DC pair as shown in Figure 2.

INCLUDED ACCESSORIES

DFARS PART 225 Compliant Hardware Kit:

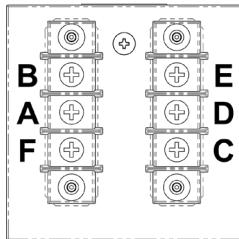
- #6-32 x 3/8" (MS16995-17) 300 series stainless steel screws
- #6 stainless steel lock washers (MS35339-136)

GROUNDING

Proper grounding is critical for adequate HEMP protection. Keep ground wire as short as possible between the surge protector ground and the site grounding point. Less than 3 feet, #6 AWG stranded wire is recommended for optimum performance. 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.



Input & Output Connector Pin-Out		
Pin	Nomenclature	Signal Characteristic
A	28 Vdc	22-32 Vdc, 13 amps
B	28 Vdc	22-32 Vdc, 13 amps
C	28 Vdc	22-32 Vdc, 13 amps
D	28 Vdc Return	22-32 Vdc, 13 amps
E	28 Vdc Return	22-32 Vdc, 13 amps
F	28 Vdc Return	22-32 Vdc, 13 amps

Table 1

RECOMMENDED PANEL CUTOUT

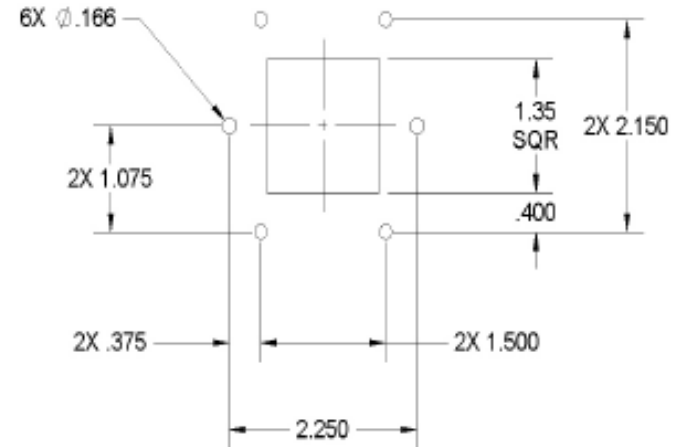


Figure 1
Recommended Panel Thickness:
10 through 22 gauge steel (0.135 to 0.030)

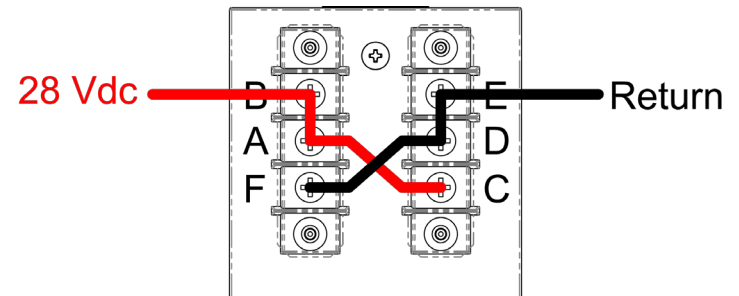


Figure 2
Wiring Diagram for 30A Applications