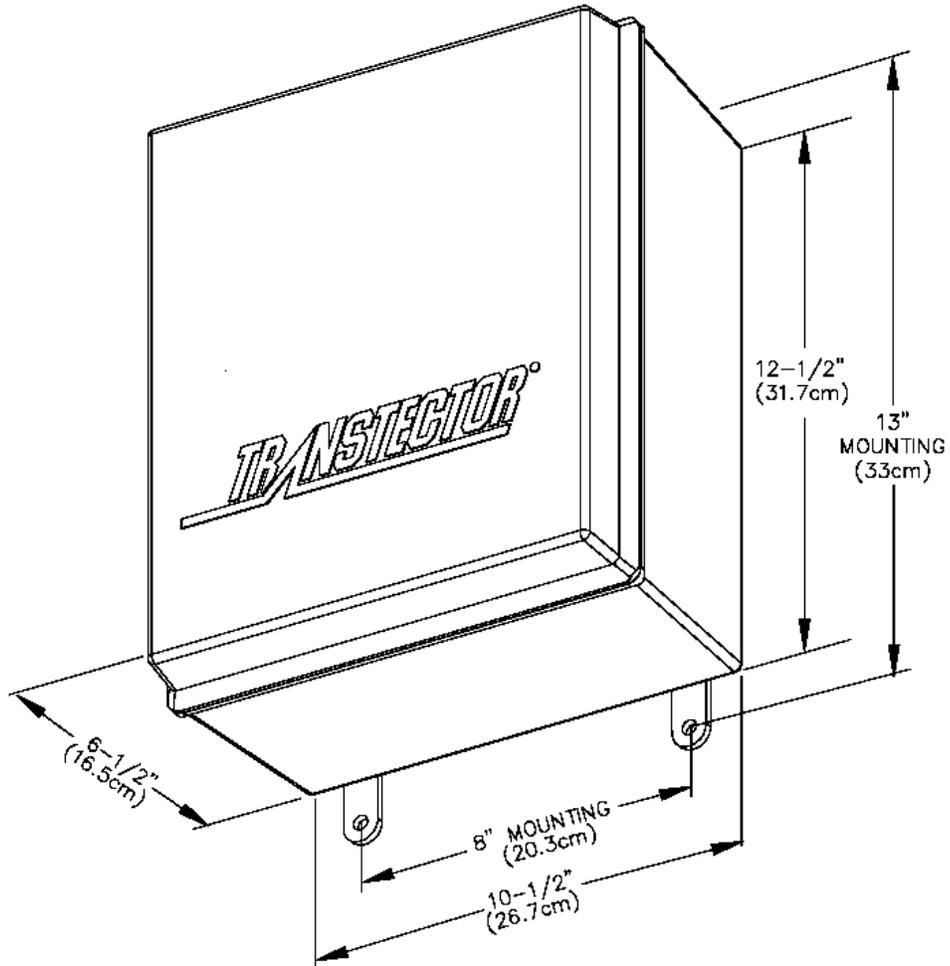


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REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	MARKETING RELEASE		9/3/04	-
B	PARAGRAPH 3.3, 4.0 & FIG. 1	5414	9/23/04	JDW
C	CHG FROM COMMON TO NORMAL SHT 2 SEC. 3.3	5707	4/20/05	MLH



UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING

DRAWN:	MLH	DATE	08/25/04
CHECKED:	MW		9/23/04
ENGR. APPD:	MLH		9/23/04
PROJ. APPD:	JDW		9/23/04
APPROVED:			

MATERIAL:
NOTED



Transtector Systems, Inc.

10701 Airport Road, Hayden, ID 83835

800.882.9110 208.772.8515 www.transtector.com

TITLE:

SPECIFICATION

**MCP-120W SASD/MOV AC POWER
OUTDOOR SURGE SUPPRESSION**

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SIZE	CAGE	DRAWING NUMBER	REV
A	30992	1400-539	C
SCALE = N/A		PAGE 1 OF 4	

6. PRODUCT INDICATION:

- 6.1 Surge Counter: The unit is provided with a digital surge counter that triggers upon any power-line event within the threshold of the surge suppressor. The counter liquid crystal display is mounted with-in the NEMA 4X enclosure and shows through the door of the enclosure. The counter mechanism has a reset button that restarts the count to zero.
- 6.2 Visual Indication: The MCP-120W SASD/MOV is equipped with a Green LED to illuminate to show Suppressor Operational and a Yellow LED to illuminate with proper 3-phase power applied.
- 6.3 The unit is provided with remote annunciation to confirm proper electrical operation by the means of connecting to the isolated, dry contact relay positions at the top of the MCP-120W SASD/MOV. Refer to section 7.3 for details.

7. INSTALLATION:

- 7.1 Electrical Installation. The suppressor is intended to be installed as close as possible to the sensitive electronics and should be connected through a dedicated 60Amp (not less than 20A), two-pole circuit breaker with a fault current rating not less than 5kA AIC. The device should be installed on the “load” side of any transfer switch mechanisms. Refer to figure 1 for connection details.
- 7.2 Power Connection. The MCP-120W SASD/MOV is equipped with four #10AWG (2.95mm) wire leads for AC connection. The Neutral (White), L1 Phase (Black), L2 Phase (Red), and L3 Phase (Orange) line wires are each connected to a terminal block inside the NEMA 4X enclosure. The terminal block is sized for use with #1-AWG (2.95mm) wire.
- 7.3 Remote Annunciation Connection: The unit is provided with remote annunciation to confirm proper electrical operation by the means of connecting to the isolated, dry contact relay positions at the top of the MCP-120W SASD/MOV. Each suppression phase is monitored and the system is interlinked to provide a single point of contacts. The contact positions are labeled for a form C (Common, Normal Open, Normal Closed) type relay and the contacts can be wired for switching auxiliary circuits. The MCP120W SASD/MOV uses a removable 3-pin “euro” style plug with terminals sized for use with 18awg (1.2mm) wire.

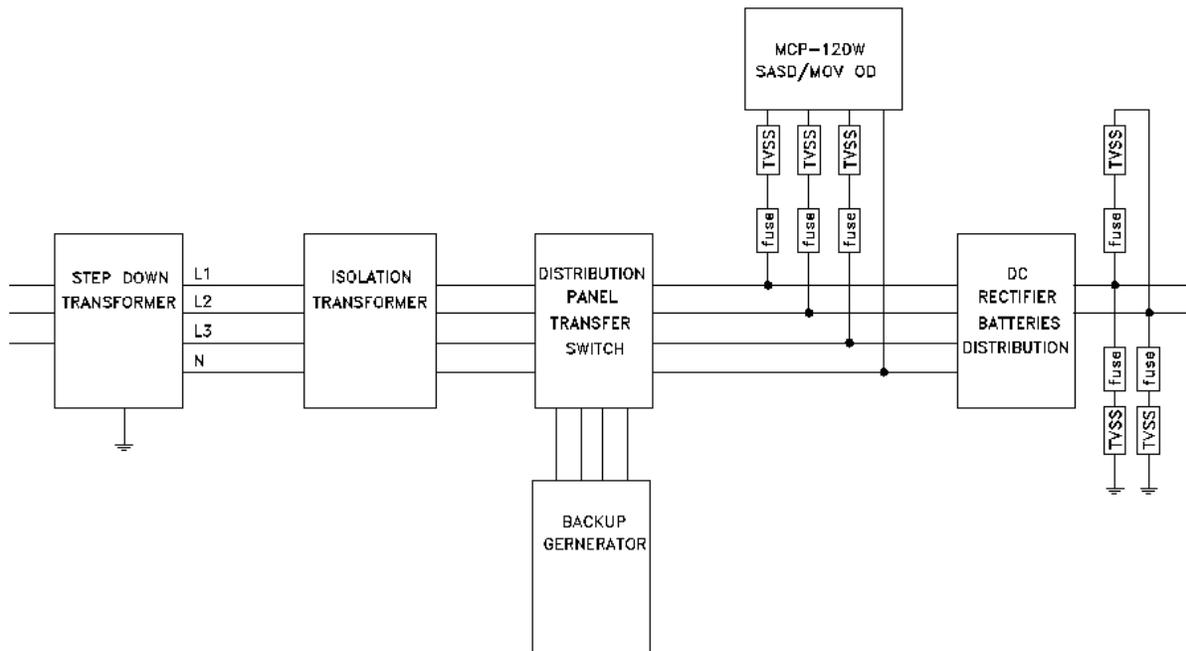


Figure 1

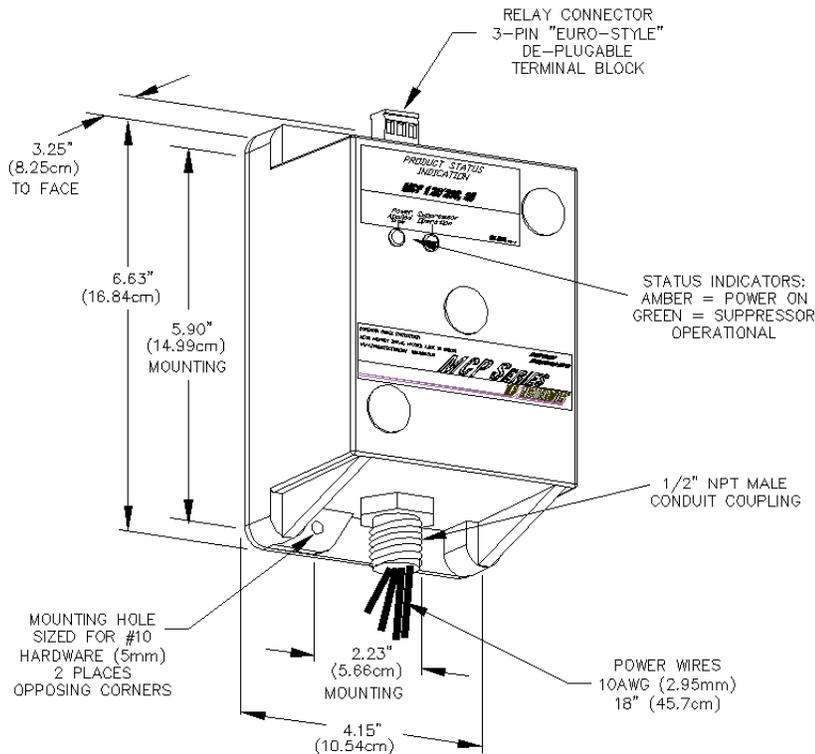


Figure 2

8 MAINTENANCE AND OPERATION:

- 8.1 Continuous voltage suppression and operation is provided while the electrical system is engaged and energized.
- 8.2 Maintenance is not required. The use of SASD surge elements as the primary surge element reduces the risk of degradation of the MOV backup surge elements.
- 8.3 Any change in surge protection status is indicated through the front window of the product. Visual Indication is provided with a Green LED to illuminate to show Suppressor Ready for transient events, and an Amber LED that illuminates to show power applied. The unit is provided with remote annunciation to confirm proper electrical operation by the means of connecting to the isolated, dry contact relay positions at the top of the MCP-120W SASD/MOV module inside the NEMA 4X enclosure. These contact positions may be remotely monitored for ease of site management.
- 8.4 In the unlikely event of self-sacrifice, the MCP surge module unit within the NEMA 4X enclosure is easily replaced. The surge module is mounted to a panel assembly and all electrical connections are made to a terminal block with phase, neutral and ground identification. Be sure to de-energize all electrical AC power to the product for service.

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