
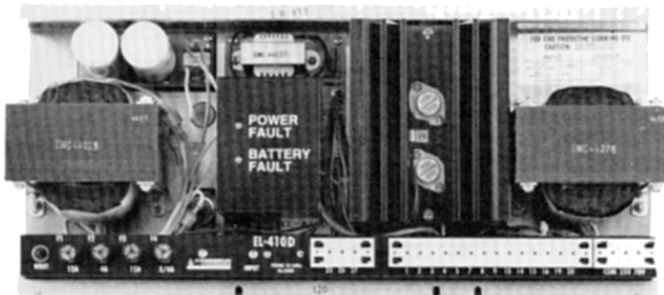


EL-410D

Voice Evacuation Alarm System Amplifier Unit

ENGINEER AND ARCHITECT SPECIFICATIONS

- 100 Watt Output
- 25 Volt or 70 Volt Operation
- Power Failure Indicator
- Battery Supervision
- Battery Transfer
-  Listed, ULC Listed
NYMEA and CSFM
Approved



Description

The Siemens Fire Safety EL-410D is the amplifier unit for the MXLV Voice Evacuation System. The audio output amplifier section is rated at 100 watts, 70.7 VRMS or 25 VRMS. The amplifier is designed to automatically switch over to battery operation upon failure of the 120 VAC input. Power and battery trouble LED's are provided. The unit mounts in the MME-3 or MLE-6 MXL system enclosures using the MSR-1 Rail Mounting Kit. The unit also mounts within a standard System 3™ "EA" enclosure and occupies eight regular module spaces.

Operation

Power

The Model EL-410D operates from a 120 volt 60 Hz supply with a 24 volt battery standby (or other emergency DC source). Loss of the main operating power transfers the system to battery operation and is signaled by an LED on the amplifier. Restoration of main power automatically returns the system to normal condition.

Battery Supervision

The battery is supervised for "on charge" voltage condition. Shorts or open battery lines will be signaled by an LED at the amplifier.

Protection

The amplifier and the power lines are protected by fuses and are all supervised.

Technical Data

Power Requirement: 120V 60 Hz, 2.5 Amp.
 Battery: 24 Volt

Amplifier Battery Drain

In Supervision: 200 mA
 At 100 watt Output: 9.5 Amp.
 Amplifier Output: 25 or 70.7 Volts, 100 watt RMS, less than 1% THD at 1KHz
 Frequency Response: 100-7,000Hz-3dB
 Input Sensitivity: 1 V RMS

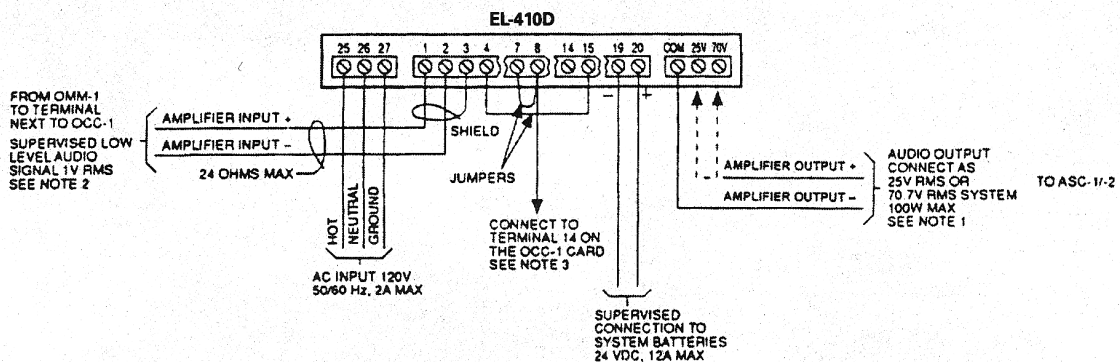
Power Line and Fuse Rating

Main Supply Circuit Breaker: 2.5 Amp. AGC
 Amplifier Fuse: 12 Amp. AGC
 AUX Power: 4 Amp. AGC
 Battery: 15 Amp. AGC
 Dimensions: 89 in. (22.9 cm) H x 19 in. (48.3 cm) W x 4 1/2 in. (10.8 cm)
 Mounting: Designed for rail mounting in a flush or surface wall mounted enclosure

Ordering Information

Model Number	Description	Part Number	Shipping Wt.	
			Lb.	Kg.
EL-410D	MXLV Amplifier Unit	500-694900	28	13

Refer to Installation Instructions P/N 315-094916



MXLV Amplifier Connection

Notes:

1. For information on the riser connections refer to the following appropriate documentation as necessary:

MXLV Manual	P/N 315-092036
OCC-1 Instructions	P/N 315-090918
ASC-1 Instructions	P/N 315-091263
ASC-2 Instructions	P/N 315-092085

Run the low level audio input lines from OCC-1 in shielded cable and separate conduit from the high level audio output line of the amplifiers. See OCC-1 Instructions, P/N 315-090918.

In multiple EL-410Ds are used, connect the EL-410Ds together using terminal 7 and 8. Then connect them to the OCC-1. This supervises the battery and AC fault at the EL-410D. If there is not battery connected to the EL-410D, this wiring configuration is not necessary.

4. Configure the OCC-1 input with CSG-M for normally low 5/24 VDC input. The EL-410D power/battery supervision is normally low input.