

EV3000 40 Watt Audio Amplifier

Features

- 24 Volt DC Supply (nominal).
- Addressable to 240 Addresses.
- 100 Volt Line Output.
- Continuous Fault Monitoring.
- Volume Control Override Output.
- Test Tone Input.
- Data Selectable 4 Channel Input.
- Overload and Over Temperature Protection
- Volume Level Control

Description

The Ampac class B 40-watt RMS audio power amplifier complies with the requirements of AS2220.1:1989. The amplifier can be used in both AMPAC's EV100 and EV3000 Emergency Warning Systems.

The 40-watt audio amplifiers are inserted into amplifier frames and plugged into a socket. Each EV3000 amplifier frame accommodates up to eight (8) 40-watt amplifiers.

Amplifiers are fitted as standard with over temperature monitoring facilities. When over temperature condition is experienced, the amplifiers will output a signal that activates the cooling fans.

Each amplifier is protected from a short circuit condition because of an overload monitoring feature. The amplifier will self-reset when the condition returns to normal.

The amplifier and the speaker line open circuit / short circuit condition are monitored. These fault conditions are displayed on the associated Emergency Warning System (EWS) zone.

To meet the requirements of AS2220.1989, the 40-watt amplifier attenuates the ALERT tone from -50dB to 0dB in 10dB steps.



Figure 1: 40 Watt Audio Amplifier

Item Numbers

154-0075 40 Watt Amplifier

Specifications

| | |
|--------------------|---------------------------------------|
| Size | 100mm x 160mm Eurocard 10E wide |
| Power requirements | 22 - 28 VDC |
| Quiescent current | 60 mA |
| Load current | 3.4 A @ 40watt load |
| Power Output | 40 Watt (45 Watt overload) |
| Output Voltage | 100 V RMS |
| Frequency response | 150 Hz - 12kHz (±1dB) |
| Distortion | Max 1% at full load (typical 0.5%) |
| Sensitivity | +5dB <200Kohm balanced) (1.4VRMS) |
| Overload | 100 VRMS + 10% |
| Temperature | -20°C to 70°C |
| Humidity | 0-95% non condensing |



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