

332A RELAY

DESCRIPTION

1. GENERAL

1.01 This section describes the 332A relay which is designed for use in V4 telephone repeater applications.

1.02 The 332A relay is used in the 24V4D repeater to provide a transmission bypass around the amplifier positions automatically wherever the power supply to the repeater is interrupted.

2. EQUIPMENT DESCRIPTION

2.01 The 332A relay is a plug-in unit (see Fig. 1) equipped with a 20-pin connector plug and is designed to be plugged directly into the mating connector socket of the equipment mounting shelf. Tabs are provided on the front of the can so that the relay can be removed from its connector socket by the use of a 602C or 602D tool. The relay consists of two MB12A relays, mounted on a printed wiring board. It is housed in a metal can approximately 1-3/4 inches wide by 1-3/4 inches high by 7 inches long.

3. CIRCUIT DESCRIPTION

3.01 Figure 2 is a schematic of the 332A relay illustrating typical circuit connections when the relay is used in a 24V4D repeater. Figure 3 is a block schematic of the 24V4D repeater illustrating

the power failure loop-around circuit. The transmitting terminals of the 332A relay connect the input of the 227-type amplifier or 849-type network directly to the 4-wire line, thereby bypassing the amplifier or network when the power supply is interrupted. When power is connected to the repeater, the relay allows the normal transmission of signals through the amplifier or network. In the receive direction the 332A relay performs the same function bypassing the 227-type amplifier or 849-type network and connecting the transmission signals directly to the 1-type terminating set. To reduce bridging losses during bypassing, the relay opens the secondary windings of the input transformers of the amplifier and disconnects the amplifier outputs from the bypass.

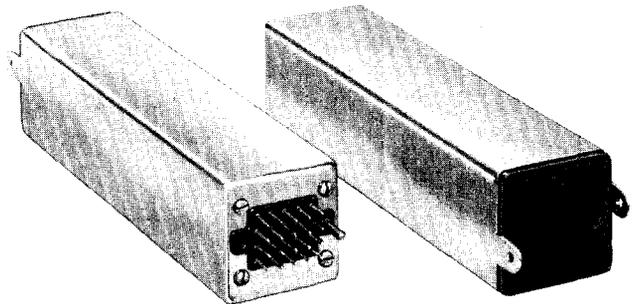


Fig. 1—332A Relay

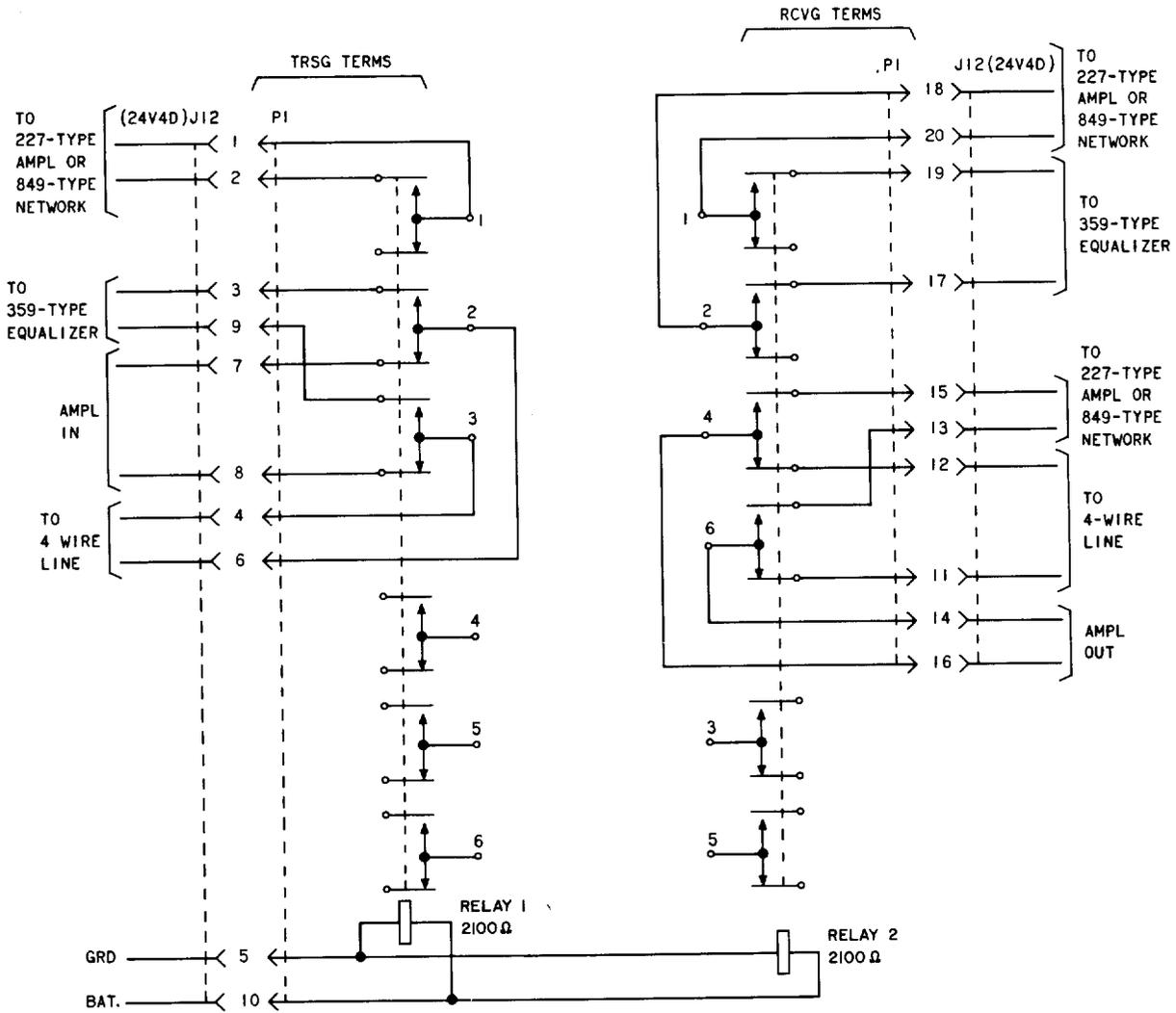


Fig. 2—332A Relay—Schematic

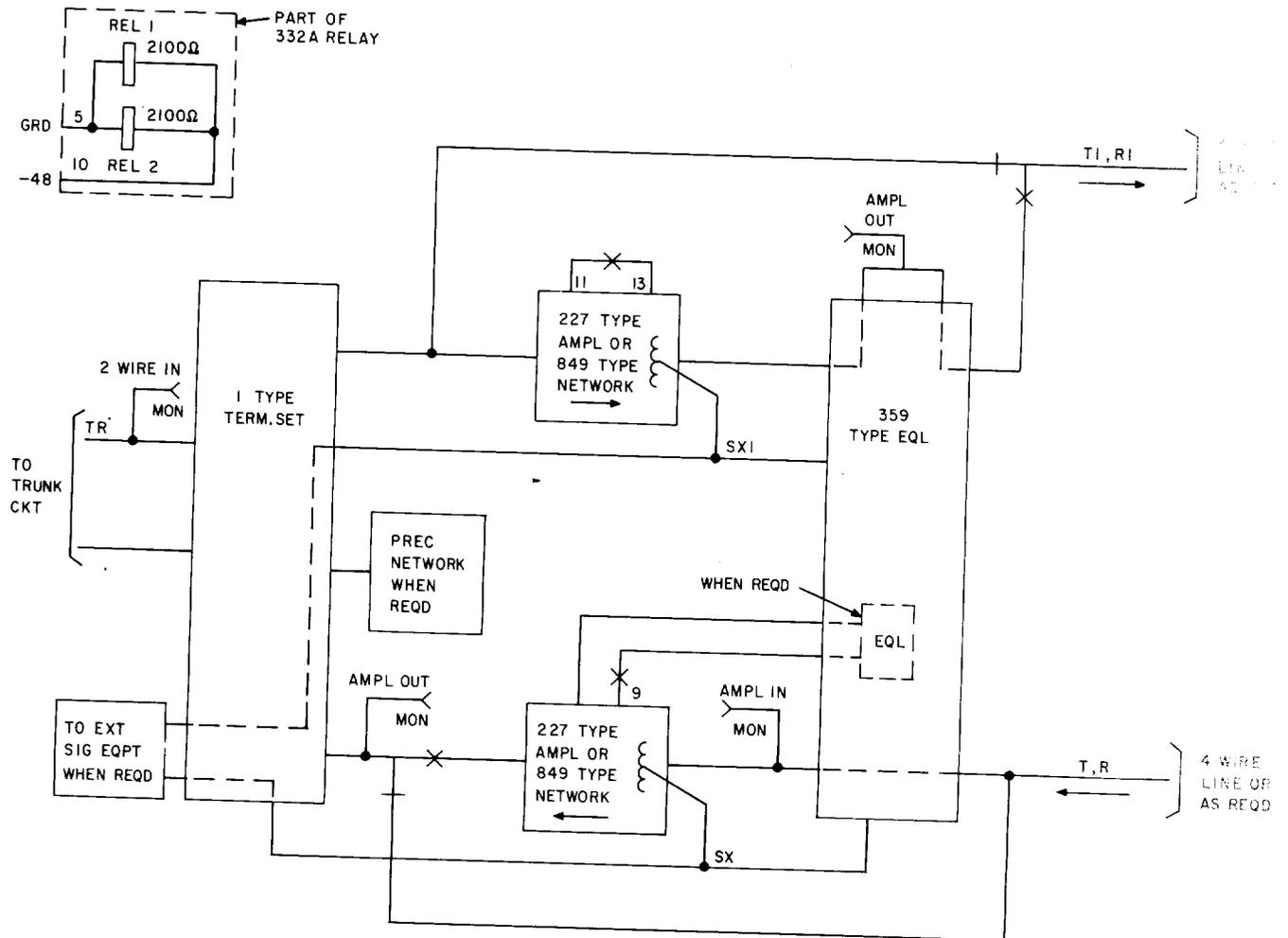


Fig. 3—24V4D Repeater—Power Failure Loop-Around Circuit—Block Schematic