SLC® Series 5 Carrier System

AUA413 Ringing Generator Unit — 5SPQ10S

This data sheet describes the AUA413 ringing generator unit (RGU) (COMCODE 106275977) and is intended for the end-user of the unit. The AUA413 RGU is designed to be used at a *SLC*®-2000 multi-services distant terminal (MSDT) to provide 20-Hz negative-superimposed ringing voltage to satisfy the ringing requirements of the MSDT for loop applications up to 132 ohms.

This data sheet is reissued to make minor editorial changes.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the faceplate.

The AUA413 RGU receives an input voltage in the −42 to −60 V DC range from the power converter unit (PCU) and supplies a ringing voltage of 20 Hz, 80 Vrms sine wave, superimposed on the negative input voltage, to three lines simultaneously. Each line is allowed to have a maximum load of five ringer equivalent numbers (RENs).

The output alarm monitor circuit in the AUA413 RGU monitors the output ringing voltage for an over or undervoltage condition. If either condition is present, the FAIL LED on the RGU faceplate is lighted and alarm information is fed to the inventory circuit, which stores the information and makes it available to the operations interface processor upon request.

The AUA413 RGU output is protected from lightning and power surges by the output surge protection circuit. The output is also current limited to 350 mA rms.

The inventory and alarm circuit contains factory-installed information peculiar to the AUA413 RGU (for example, COMCODE number) that can be remotely accessed using an operation interface processor. This circuit also gathers alarm information from the RGU and makes it available upstream.

FAIL (Red LED): When lighted, indicates that an under or overvoltage condition exists on the 20-Hz ringing voltage leads or a failure has occurred in the primary side of the RGU.

−20HZ, −48V, GND (Test Points): These test points are provided on the faceplate to allow access to the 20-Hz ringing voltage, −48 V DC input, and ground.

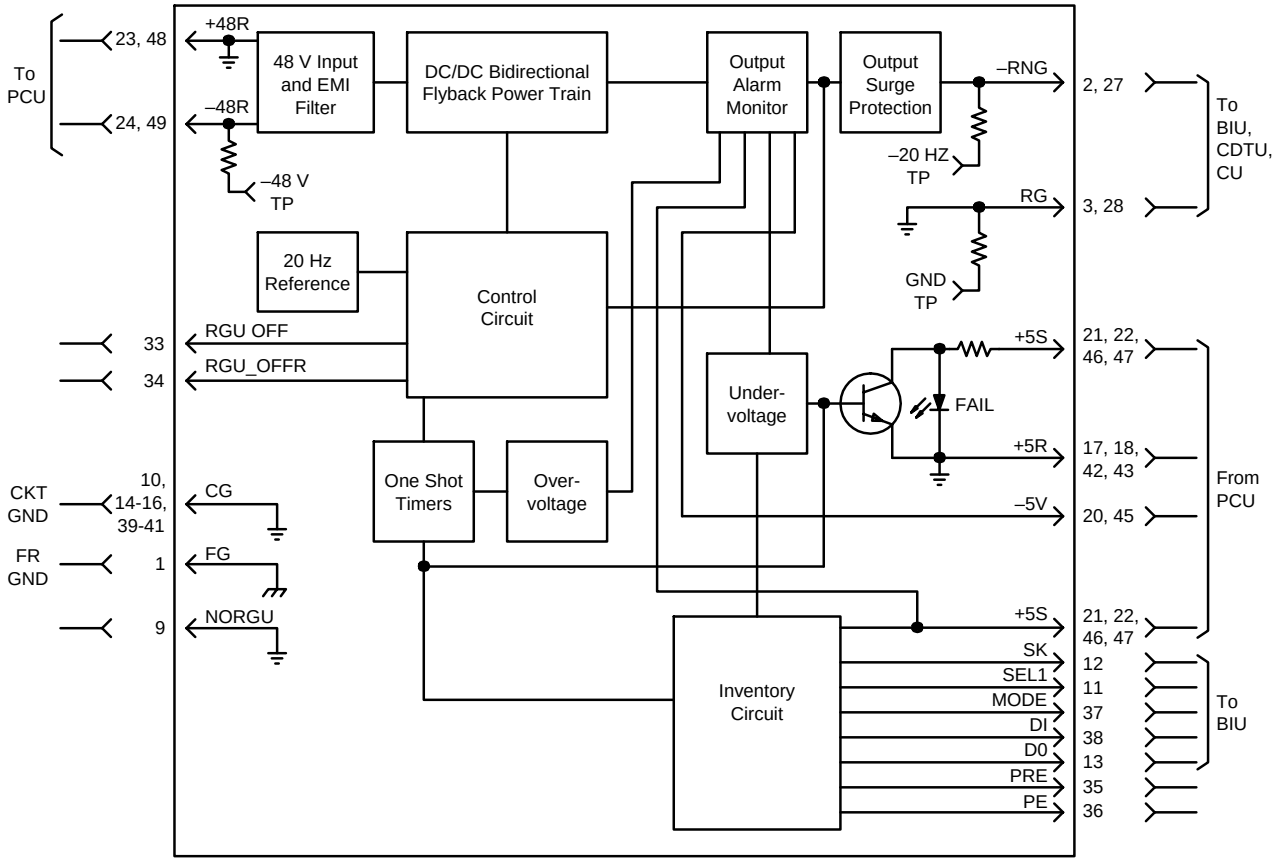

Figure 1. AUA413 RGU Block Diagram

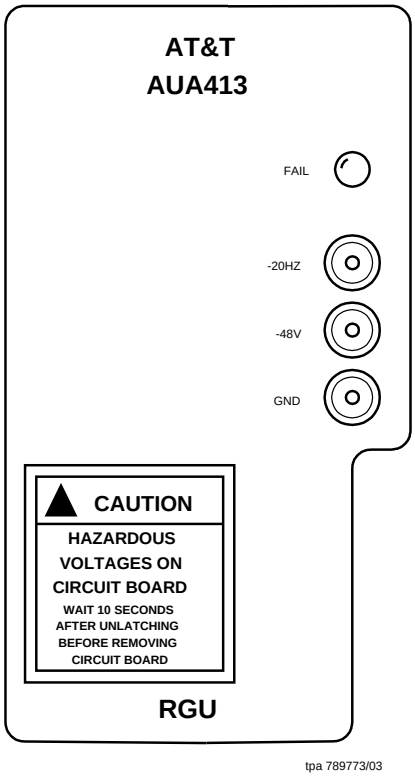

Figure 2. AUA413 RGU Faceplate

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC**.

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