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## SLC<sup>®</sup> Series 5 Carrier System

### 3H1 Ringing Generator — 5SCBPE0

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**DANGER:**

*The ringing generator contains hazardous voltage when inserted into its slot.*

This data sheet describes the 3H1 ringing generator (COMCODE 106397888) and is intended for the end-user of the unit. The 3H1 ringing generator is used in the digital loop carrier remote terminal (RT). The 3H1 is mounted in the J1C182BD power shelf. This plug-in unit provides 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT.

Figure 1 is a functional block diagram of the 3H1 ringing generator, and Figure 2 shows the faceplate.

The 3H1 ringing generator contains a DC-DC converter that converts nominal -48 volts into those DC voltages needed for internal operations. A -48 V input fuse is located inside the 3H1 ringing generator. A 20-Hz reference circuit controls a power bridge arrangement to generate the 20-Hz ringing signal. Low-pass filtering is provided at the output of the power bridge to remove switching transients.

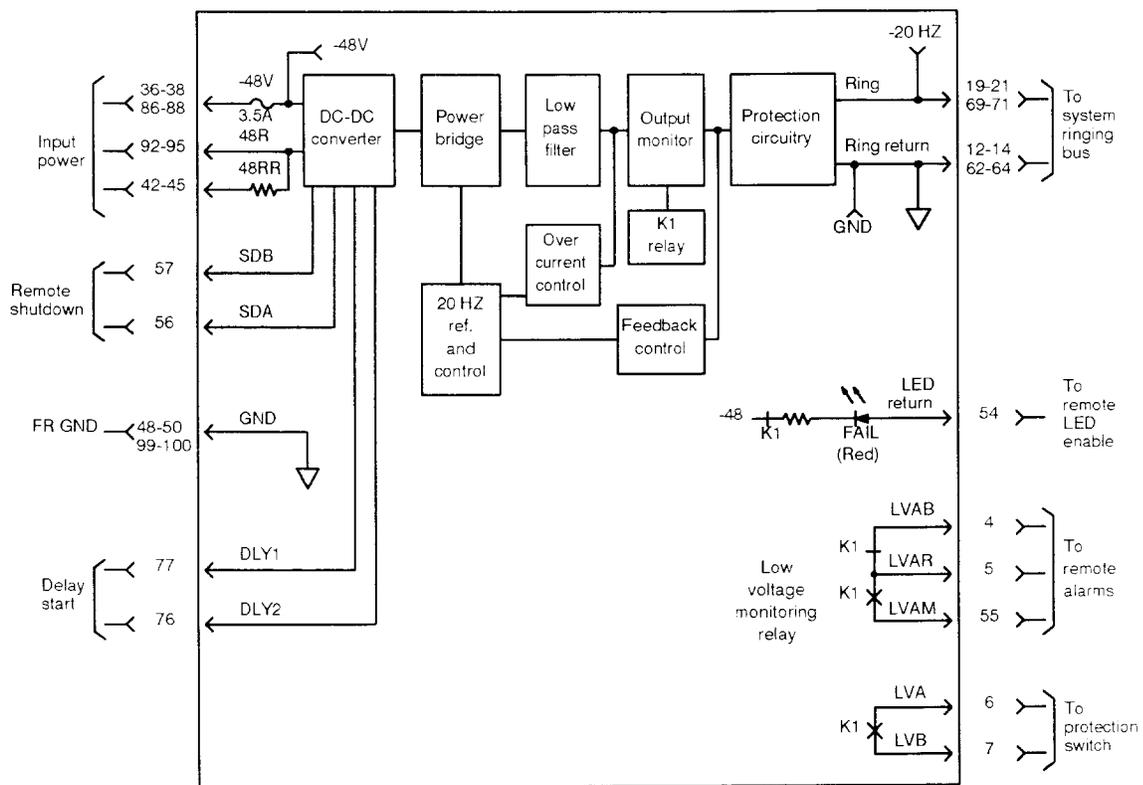
The 3H1 ringing generator supplies 20-Hz, 100 V rms ringing superimposed on -55 V DC. Output current is 0.5 A into a resistive load and 0.7 A into the normal AC coupled ringing load. The output is current limited to one ampere under short circuit conditions.

Control circuitry is provided to allow remote shutdown and delayed startup. Output signaling is provided to control a protection switch or other ring generator. An alarm lead signals failure to an external monitor.

The following LED indicator and test jacks are located on the faceplate of the 3H1 ringing generator.

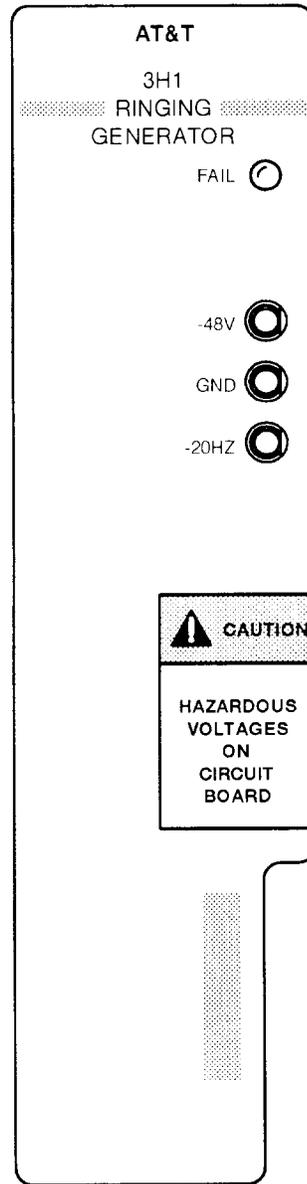
**FAIL (Red LED):** When lighted, this LED indicates that the 20-Hz ringing voltage has dropped below 60 volts for more than 5 seconds.

**-48V, GND, -20HZ:** Test jacks are provided on the faceplate for -48 V DC input voltage, ground, and 20-Hz ringing output.



UPX 814060.01

Figure 1. 3H1 Ringing Generator Block Diagram



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Figure 2. 3H1 Ringing Generator 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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