



SLC[®] Series 5 Carrier System

3B() Ringing Generator

Data Sheet



DANGER:

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

This data sheet describes the 3B() ringing generator (3B1 COMCODE 105727838) and is intended for the end-user of this unit. The 3B() ringing generator is used in the SLC Series 5 remote terminal (RT). The 3B() is mounted in the J1C182BA power shelf or the J1C182BB bulk power shelf. This plug-in unit supplies 30-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT. Independent telephone companies typically use the 30-Hz ringing supplies.

This data sheet is reissued to change information to cover the 3B1 ringing generator, the functional equivalent of the 3B ringing generator. The 3B1 differs from the 3B in that several components have been changed and the unit is *UL*^{*} recognized.

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

^{*} Registered trademark of Underwriters Laboratories, Inc.

⇒ NOTE:

A 3B1 ringing generator is typically interconnected to another 3B1 ringing generator on the power shelf — one unit stands by to protect the in-service unit. In Figure 1, *1st Ringing Generator* denotes the main unit, and *2nd Ringing Generator* denotes the protection unit.

The 3B() ringing generator contains a DC-DC converter that converts nominal –48 volts into those DC voltages needed for internal operations. A –48V input fuse is located in the 3B() ringing generator. A 30-Hz reference circuit controls a power bridge arrangement to generate the 30-Hz ringing signal. Low-pass filtering removes switching transients at the output of the power bridge.

The 3B() ringing generator can simultaneously ring up to ten lines, each supporting five telephones. However, no more than seven lines of five telephones each can be rung in any one 48-line shelf. The 3B() ringing generator supplies 30-Hz, 100V rms (up to 400 mA rms) ringing superimposed on approximately –55V DC (up to 180 mA). The output is current limited to one ampere under short circuit conditions.

FAIL (Red LED): This LED lights to indicate an alarm when the 30-Hz ringing voltage drops below approximately 60 volts for more than 5 seconds.

–48V, GND, –30HZ: Test jacks are available on the faceplate — one for –48V DC, one for ground, and one for 30-Hz ringing.

3B() Ringing Generator

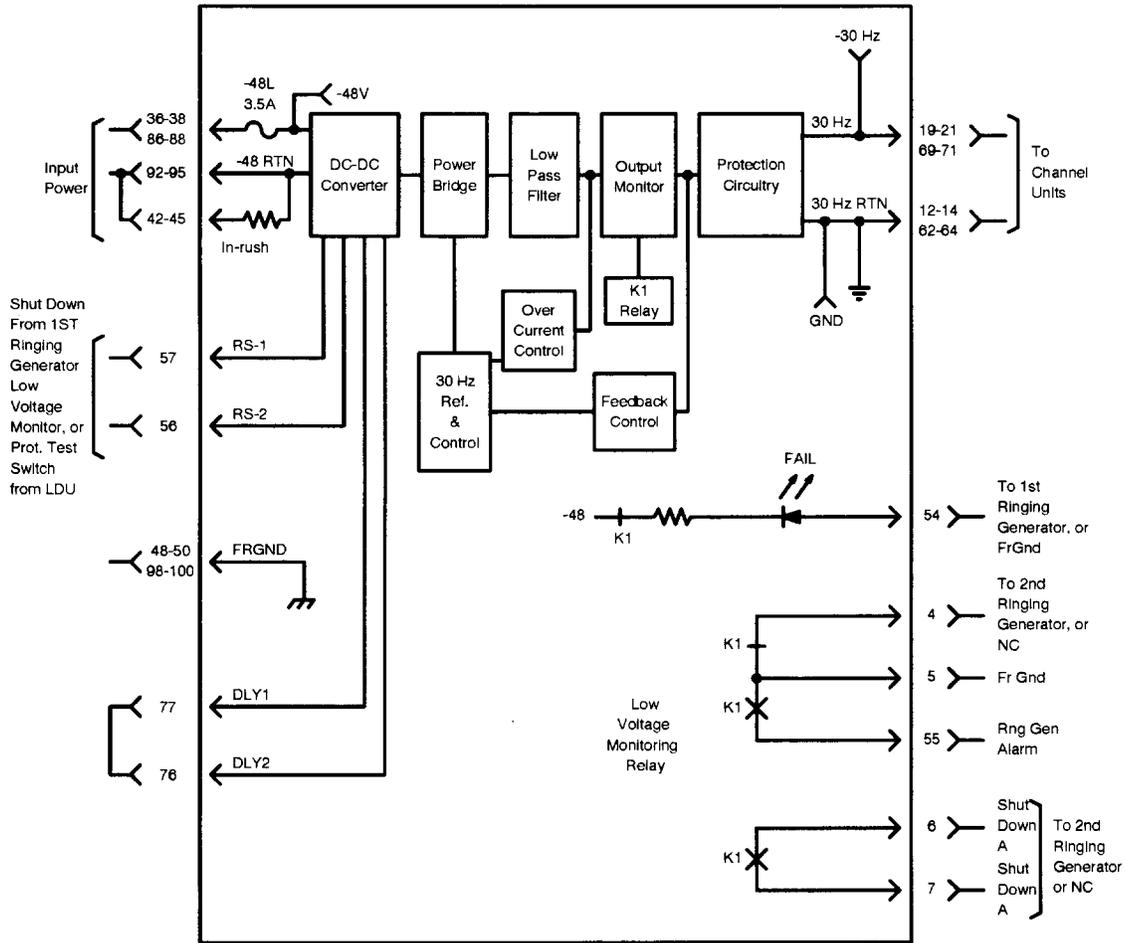


Figure 1. 3B1 Block Diagram

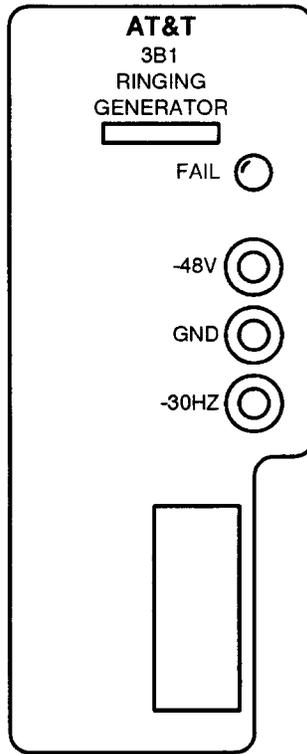


Figure 2. 3B1 Faceplate

In-hours or emergency out-of-hours technical assistance for the *SLC* Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**.

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