3A RINGING GENERATOR - 5SCB600DXX

DATA SHEET

SLC® SERIES 5 CARRIER SYSTEM

The 3A ringing generator (COMCODE 104015409) is used in the SLC Series 5 carrier system RT (remote terminal). It is mounted in the J1C182BA power shelf or the J1C182BB bulk power shelf. This plug-in unit provides 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT.

This practice is reissued to add the faceplate jacks to Figure 1.

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

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

The 3A ringing generator contains a DC-DC converter that converts nominal −48 volts into those dc voltages needed for internal operations. The −48V input fuse is located in the 3A 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 3A 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 3A ringing generator supplies 20-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.

When the ambient temperature exceeds 100°C, the *fan request* causes the thermal switch in the 3A ringing generator to turn on the 2A fan unit. The thermal switch turns off the fan unit when the ambient temperature drops below 80°C.

FAIL (Red LED): This LED lights to indicate an alarm when the 20-Hz ringing voltage drops below approximately 60 volts for more than 5 seconds.

−48V, GND, −20HZ: Test jacks are provided on the faceplate — one for −48V dc, one for ground, and one for 20-Hz ringing.

Technical assistance for the SLC Series 5 carrier system can be obtained by calling the Regional Technical Assistance Center at 1-800-225-RTAC. This telephone number is staffed 24 hours per day.

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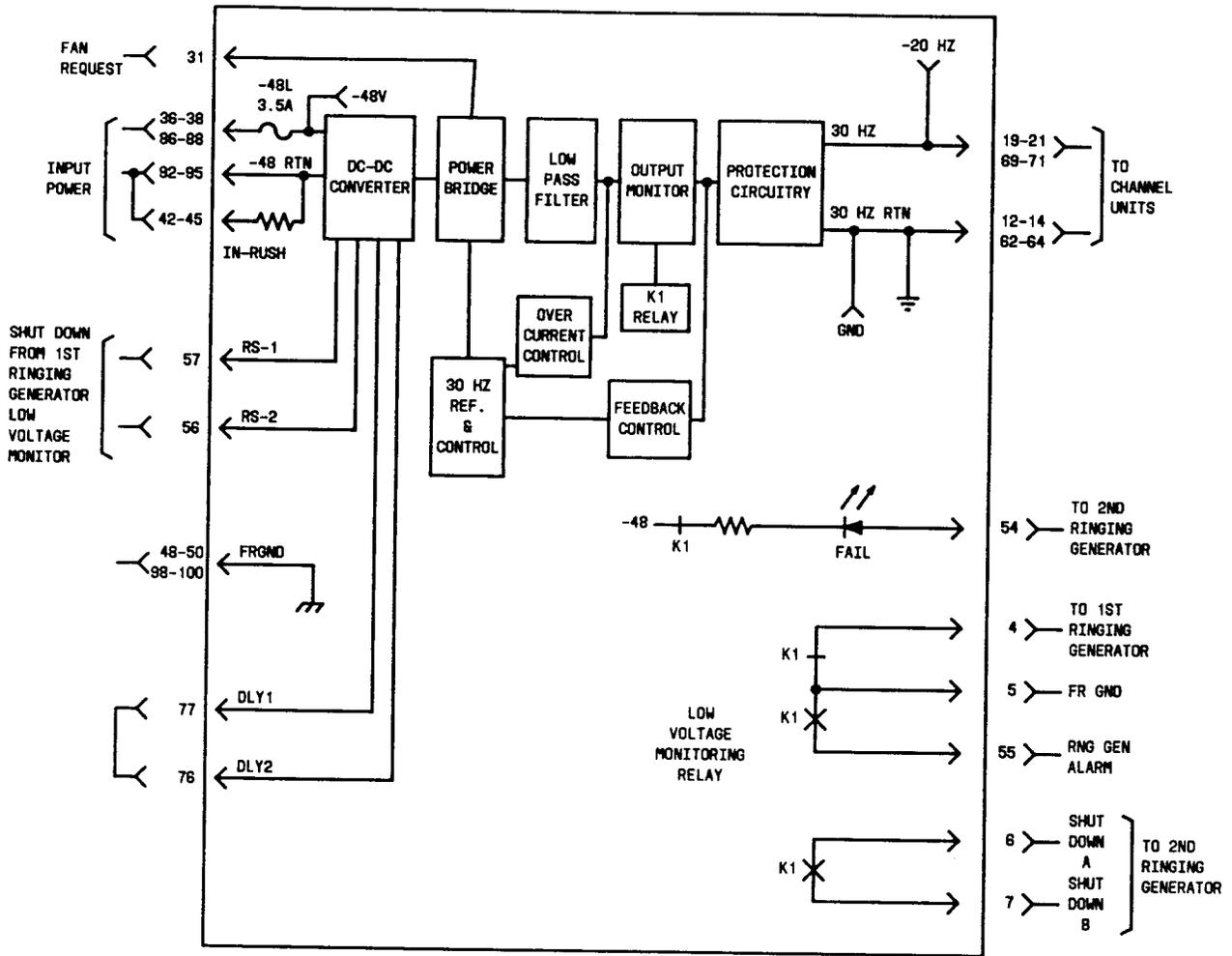The AT&T Documentation Management Organization.
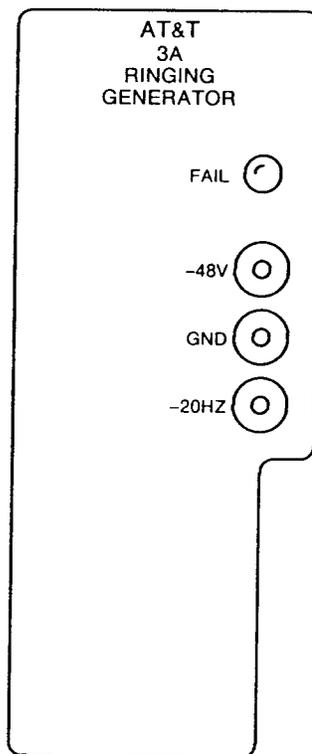
Figure 1—3A Block Diagram

Figure 2—3A Faceplate