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AUG2 RING SWITCH UNIT—5SCBA30GXX

DATA SHEET

SLC® SERIES 5 CARRIER SYSTEM

The AUG2 ring switch unit (RSU) is used in the bulk power shelf (J1C182BB-1) for SLC Series 5 system RTs located in huts with bulk power.

Table A is a listing of the functional pin-out of the RSU. Figure 1 is a functional block diagram of the unit, and Fig. 2 shows the faceplate.

The primary function of the RSU is to provide load switching for negative ringing. This is accomplished through relays K1 and K2, which can switch either −20 Hz(1) or −20 Hz(2) ringing input to either SEL −20 Hz(1) or SEL −20 Hz(2) ringing output. K1 and K2 are operated as a function of the input alarm leads RG1 ALM and RG2 ALM, which cause the switching as well as generate the major and minor ringing alarms.

Ring switching and alarm generation must also occur in the event of a loss of either −48(1) or −48(2). This is accomplished by driving the K1 and K2 relay coils by −48(1) and −48(2) feeders respectively. Thus a failed feeder causes the same ring switching as a failed ringing generator.

In addition to the ringing alarms, the RSU accepts a Bulk Power Closure (BPC) which is a closure from the bulk power plant indicating a loss of AC. This alarm is transmitted to the Series 5 channel bank as a power minor (PMN).

The RSU provides high-frequency capacitive filtering for each of the White, Common, and Blue −48V supplies that run from the three Bank Fuse Units to their corresponding dual banks.

Provision is made on the faceplate of the RSU for craft to measure the various voltages on the bulk power shelf. There are three jacks for the feeders −48(1), −48(2), −48(3) and two jacks for the selected −20 Hz(1) and −20 Hz(2) ringing supplies. There are two push-button switches (S1 and S2) on the RSU that are used to allow craft to verify the ring switch operation. Each switch is grouped with its associated −20 Hz supply, which is disabled upon pressing the switch. At this point ringing must still be present at the jack due to the ring switching of the RSU.

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TABLE A

Ring Switch Unit Functional Description

Signal (Pin #)	I/O	Description
DBK3 W -48V (34, 84)	I	BFU1, 2, & 3 DC inputs for high-frequency filtering
DBK3 COM -48V (36, 86)	I	
DBK3 BL -48V (32, 82)	I	
DBK2 W -48V (40, 90)	I	
DBK2 COM -48V (42, 92)	I	
DBK2 BL -48V (38, 88)	I	
DBK1 W -48V (46, 96)	I	
DBK1 COM -48V (48, 98)	I	
DBK1 BL -48V (44, 94)	I	
-48(3) (26, 76)	I	Bulk power plant feeders: -48 VDC, 20 amps
-48(2) (28, 78)	I	
-48(1) (30, 80)	I	
-20Hz(1) (14, 15, 64, 65)	I	Negative ringing from Ringing Generator 1
-20Hz(2) (17, 18, 67, 68)	I	Negative ringing from Ringing Generator 2
SEL -20Hz(1) (23, 24, 73, 74)	O	Selected negative ringing output 1
SEL -20Hz(2) (20, 21, 70, 71)	O	Selected negative ringing output 2
BPC (54)	I	Bulk power closure indicating power plant alarm
RG1 ALM (7)	I	Alarm indication from Ringing Generator 1
RG2 ALM (6)	I	Alarm indication from Ringing Generator 2
RGMJ (2)	O	Major ringing alarm
RGMN (52)	O	Minor ringing alarm
Shutdown RG1 (56/57)	O	Switch pair to disable Ringing Generator 1
Shutdown RG2 (8/9)	O	Switch pair to disable Ringing Generator 2

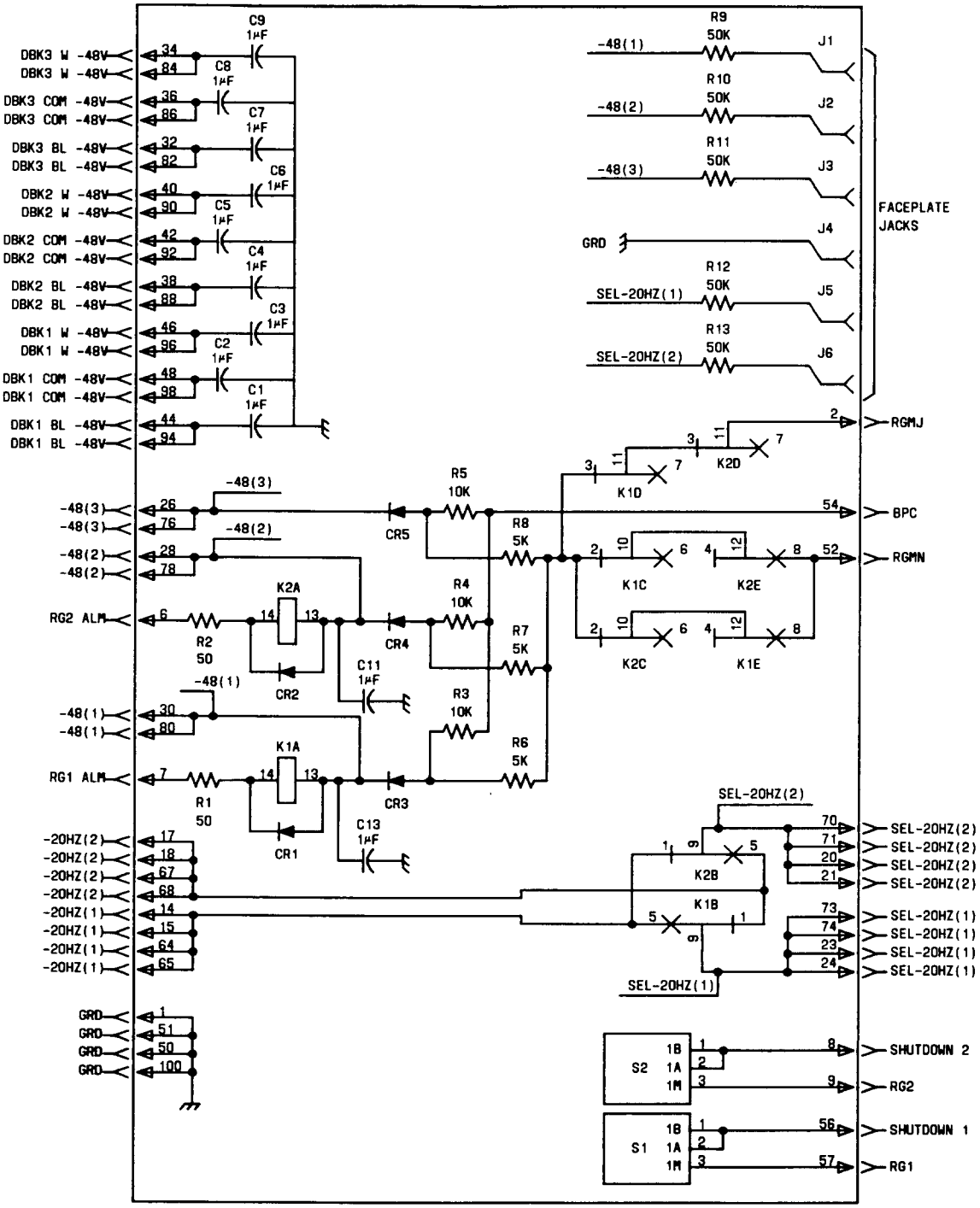

Fig. 1—AUG2 Block Diagram

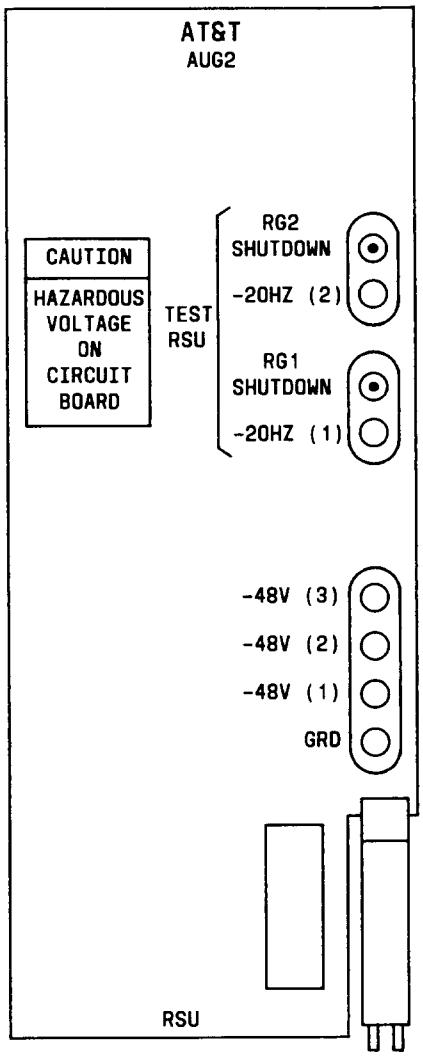

Fig. 2—AUG2 Faceplate