

POWER SYSTEMS
POWER SUPPLY CIRCUIT
AC, DC & RINGING SUPPLY
FOR 756A BATTERYLESS PBX
J86464L

CHANGES

2.22 +48V 40-60V 0.1 amp

A. Changed and Added Functions

Noise max. 52 DBRN C-Message

A.1 The 404C tone generator (option "W") was added to provide TOUCH-TONE dial tone and replaces the LT2 dial tone (option "X").

Bridge Connection

Ripple max. 1V rms

B. Changes in Apparatus

2.23 ±10V AC 8-11V 2.1 amp 60 cps

B.1 Added

2.24 20 cps 65-90 Volts Ringing

404C tone generator

2.25 LT2 0.5 Volts Dial Tone

2.26 LT1 2.0 Volts Busy Tone

D. Description of Changes

2.27 TT1 1.75 Volts Dial Tone

D.1 Options "W" and "X" were added to the drawing.

D.2 Notes 101, 102, 105, and 202 were added to the drawing.

D.3 Notes 103 and 104 were formerly notes 102 and 101, respectively.

D.4 This drawing partially replaces SD-81326-01.

3. FUNCTIONS

To provide -48V dc for relay and talking power, +48V dc and 10V ac for direct station selection, low tone for busy tone, TOUCH-TONE dial tone, 460 cps modulated at 40 cps superimposed on 20 cps for audible ringing, machine ringing, and signaling interruptions.

1. PURPOSE OF CIRCUIT

4. CONNECTING CIRCUITS

4.1 This circuit connects to the 756A Batteryless PBX switching circuits.

1.1 To provide power supplies for the 756A Batteryless PBX system.

5. DESCRIPTION OF OPERATION

The circuit consists of ferroresonant regulated rectifier KS-19642, load capacitor panel J86808G, AC, DC and ringing supply panel J86812B, and interconnections between these units.

2. WORKING LIMITS

2.1 AC Input 105-129 Volts, 60 cps

2.2 Output

2.21 -48V 45-52.6V 0.5-8 amp normal
12 amp intermittent

Noise max. 39 DBRN C-Message

Bridge Connection

Ripple max. 60 mv rms

Commercial ac power, 105 to 129 volts, is connected to the supply panel and distributed to the rest of the circuit. A line switch on this panel removes power from the entire circuit. Connections are shown for furnishing output power, ringing, tones and interruptions to the PBX circuits. The lead connecting 10V ac from terminal 6

on TS2 to terminal 8 on J1 of the J86812B unit must be disconnected for operation in the 756A PBX.

6. ALARMS

Provision for fuse failure alarms are provided on -48 volts dc to the ringing circuit and 10 volts ac to the interrupter motor and output circuit.

A 42,000 uf capacitor provides protection against power failures of less than 1/4 second duration.

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