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COMMON SYSTEMS
3B20D MODEL 2 PROCESSOR
TAPE UNIT CABINET
CIRCUIT

SECTION I - GENERAL DESCRIPTION

1. PURPOSE OF CIRCUIT

1.01 The tape unit cabinet contains one KS-22762 magnetic tape unit and may contain one 300-volt-ampere (VA) power converter (J1C134BA-1) (inverter) to power the tape unit. The power inverter is optional.

2. GENERAL DESCRIPTION OF OPERATION

2.01 The power inverter mounts in the upper portion of the cabinet directly above the tape unit. When installed, the inverter converts -48 volt dc office battery to 117 volt ac to power the tape unit. When the inverter option is absent, the tape drive is powered directly from office 117 volt ac.

SECTION II - DETAILED DESCRIPTION OF OPERATION

1. RELATIONSHIP TO THE SD AND J1C174A-1

1.01 The FS and CAD parts of the SD use a "double-lined" box concept to define all equipment in the cabinet. That is, the SD basically calls out all of the inter- and intra- cabinet cabling for all options of equipage. The SD also shows the electrical connections for the dc power feeders and the TTL-level signals in an IOP (input-output processor) circuit. Circuit notes in the SD describe the placement of the TTL signals in the ribbon cables.

1.02 The J-drawing calls out the list structure of the cabinet, unit mounting instructions, and the various cable assembly drawings.

2. EFFECT OF TEMPERATURE ON TAPE

2.01 The power distribution network is designed to operate over the converter and tape unit temperature range of 0 to 49°C.

NOTICE

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NOTE

Although the tape unit is designed for 0 to 49°C operation, tape movement at temperatures above 40°C may distort or stretch the tape.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

1.01 Power

- 1.02 The dc input requirements are -42.5 to -52.5 volts dc at 11.2 amperes with the inverter installed in the cabinet.
- 1.03 When the inverter is not installed, ac input limits to the tape drive are 120 volts ac nominal, +8 volts/-16 volts ac.

AT&T BELL LABORATORIES

DEPT 45153-NES-MPV

COMMON SYSTEMS
3B20D MODEL 2 PROCESSOR
TAPE UNIT CABINET

SECTION I - GENERAL DESCRIPTION

1. PURPOSE OF CIRCUIT

1.01 This cabinet provides one KS-22762 magnetic tape unit and one 300-volt-ampere(VA) power converter (J1C134BA-1) to power the tape unit.

2. GENERAL DESCRIPTION OF OPERATION

2.01 The power converter mounts in the upper portion of the cabinet, with the tape unit located directly below. The power required by the cabinet is the normal -48 volt office battery supply. This voltage is converted by the 300-VA converter to a 117-volt ac supply capable of driving one tape unit.

SECTION II - DETAILED DESCRIPTION

1. RELATIONSHIP TO THE SD AND J1C174A-1

1.01 The FS and CAD parts of the SD drawing consider all equipment in the cabinet as a "double-lined" box concept. That is, the SD basically calls out all of the inter- and intra- cabinet cabling for all options of equipage. The SD also shows the electrical connections for the dc power feeders and the TTL level signals between the tape unit and its controller (UN52), housed in an IOP (input/output processor) circuit. Circuit notes in the SD describe the placement of the TTL signals in flat ribbon cables.

1.02 The J-drawing calls out the list structure of the cabinet, unit mounting instructions, and the various cable assembly drawings.

2. EFFECT OF TEMPERATURE ON TAPE

2.01 The power distribution network is designed to operate over the converter and tape unit temperature range of 0 to 49°C. Note, however, that although the tape unit is designed for 0-to-49°C operation, actual tape movement at temperatures above 40°C may distort or stretch the tape media.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

1.01 Power

1.02 The dc input requirements are -42.5 to -52.5 volts dc at 11.2 amperes for the converter in the cabinet.

BELL TELEPHONE LABORATORIES, INCORPORATED

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