

MEMOREX 7100

POWER SUPPLY

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MEMOREX CONFIDENTIAL

The power system designed for the MRX30 is based on the recently developed switching type of power supply circuit. This type of circuit has many advantages over the "conventional" type of power supply. First; it runs cool because the regulation is controlled with storage elements rather than dissipative elements. Second; it is smaller because the high frequencies involved allow much smaller components to be used. Third; it is more easily repaired in the field because the system lends itself to replaceable plug in packages. Fourth; it is low cost: even through the system is more complex, the components are cheaper and the overall cost is equal to or less than that of a conventional system.

The power supply has overcurrent protection on all supply voltages and shuts down automatically for any over voltage or under voltage condition. Over voltage crowbars also protect circuit boards from momentary high voltage surges. The power sequencing unit allows the MRX30 to be used as a peripheral device for a larger computing system where it must go through a remote controlled power up sequence. On small system configurations cost can be reduced by removing one of the 5V modules. For large system configurations, power can be extended by adding 5V modules, at a rate of 50 amps per module.

MRX30 Power Supply Specifications

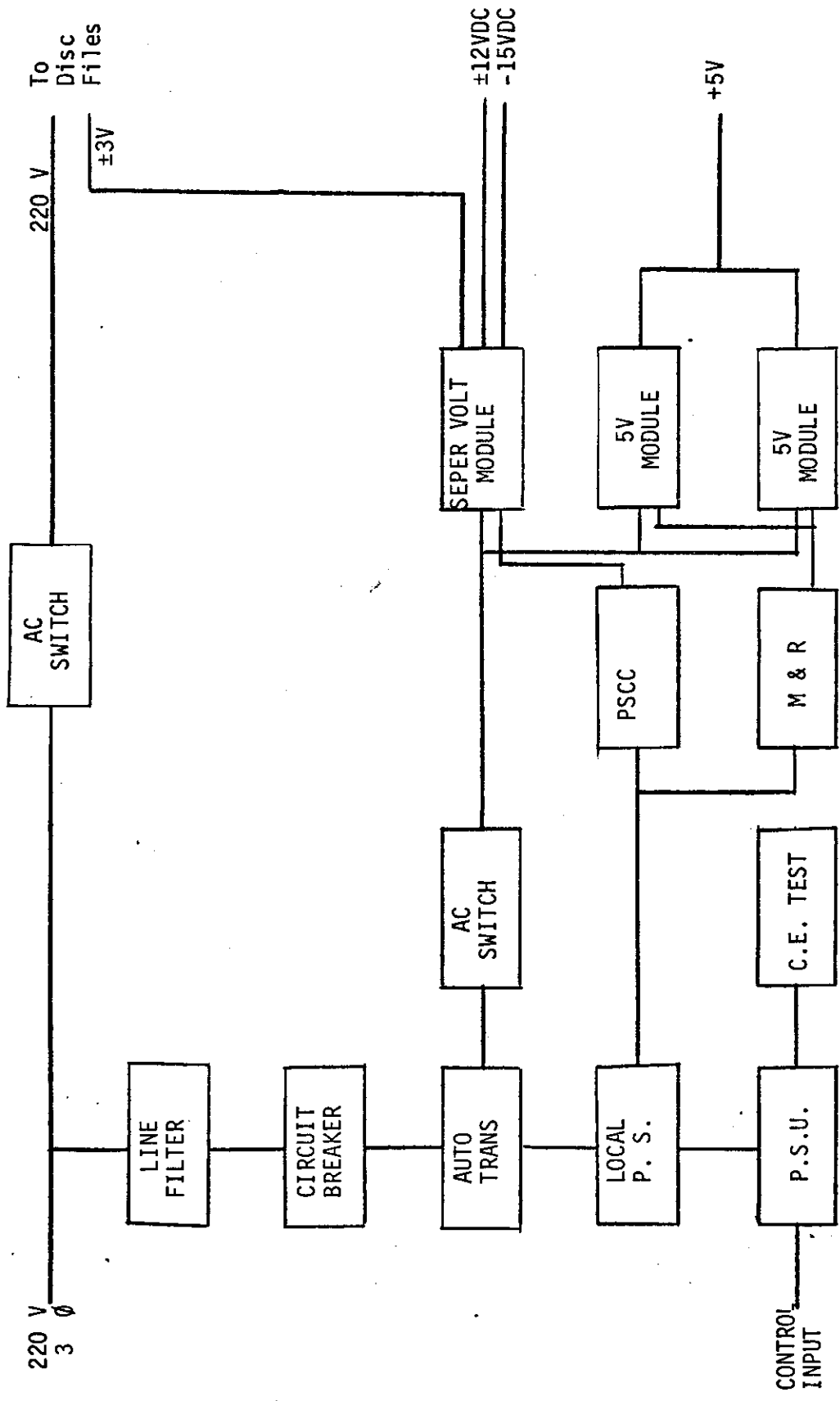
Supply Voltages

Voltage	Tolerance	Current
+ 5	± 5%	100 amp
±12	± 4%	±6 amp
+ 3	± 2%	2 amp
- 3	± 2%	5 amp
-15	±10%	2 amp

Line Voltage

220 V

3 phase



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