MXI1503 AND MXI2004 AC/DC DISTRIBUTION

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MXI1503 AND MXI2004 AC/DC DISTRIBUTION

1 AC DISTRIBUTION

This section of the manual describes the AC power distribution and the +50VDC Power Supplies for the RF Power Amplifiers. The MXi Transmitter was designed to accommodate single phase 240V 60Hz AC mains. The power for the RF Amplifiers is provided from a +50VDC power supplies capable of delivering 3kW of power. Datasheet for the +50VDC power supplies are provided in the last section of this manual.

The AC wiring schematics for single phase AC are given in Figure 1. The intent of this schematic is to show the AC wiring to the DC power supplies for RF amplification. Terminal Block TB1 receives Phase 1 and Terminal Block TB2 receives Phase 2 of single phase feed 240VAC. The GND wire from the AC feed must be connected to the Breaker Housing GND stud. Breaker Housing GND stud is connected to the Cabinet GND stud. Front End units (Modulator, Control Unit and RF Splitter) gets AC from Auxiliary AC 120V 60Hz. All these units use copmmon breaker BR5. Line is distributed from terminal TB1-P1 and Neutral from TB3-P2. Each main +50VDC power supply actually comprised of three 1kW plug in modules.

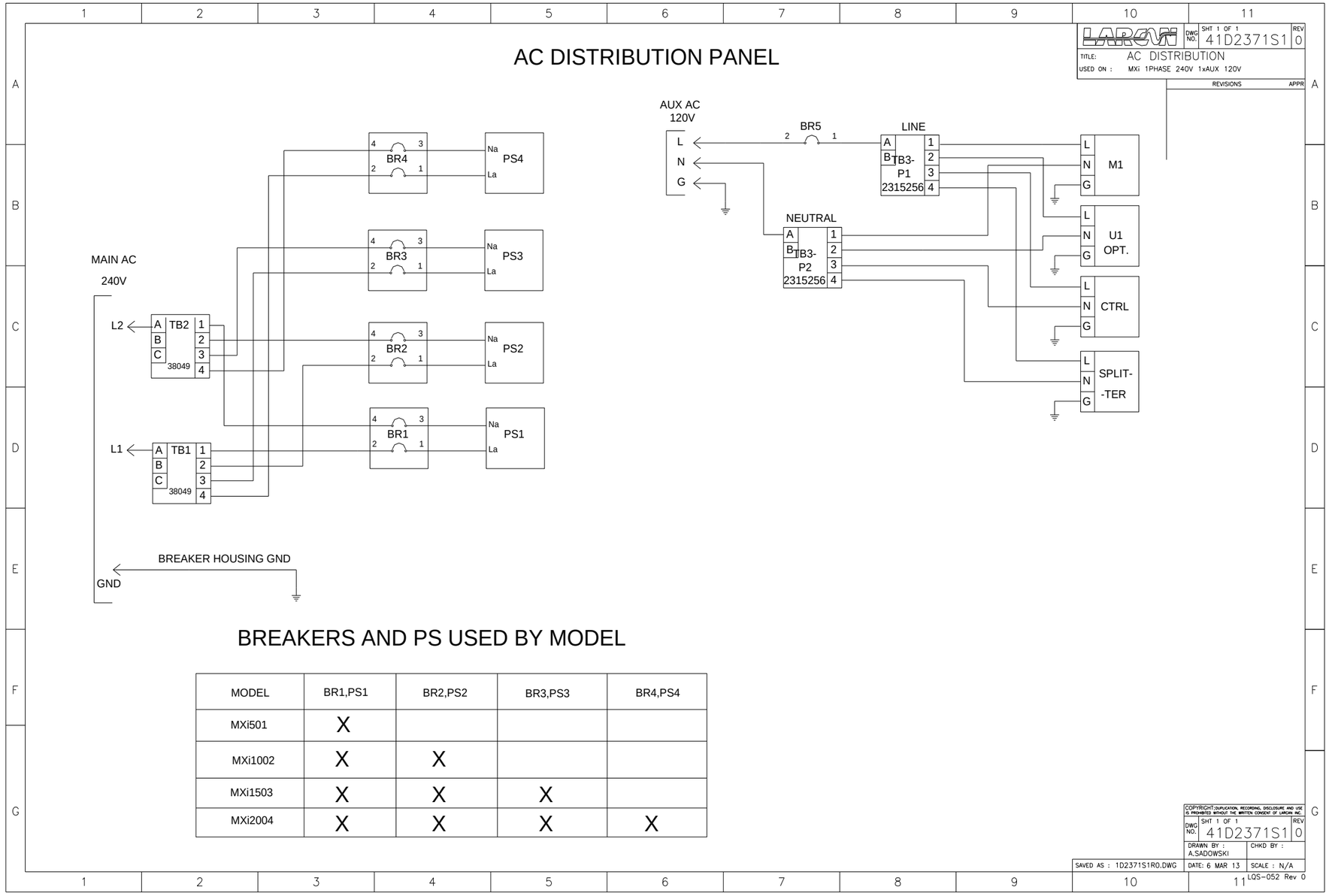

Figure 1 Cabinet AC Distribution Single Phase 240V 41D2371S1 Rev 0

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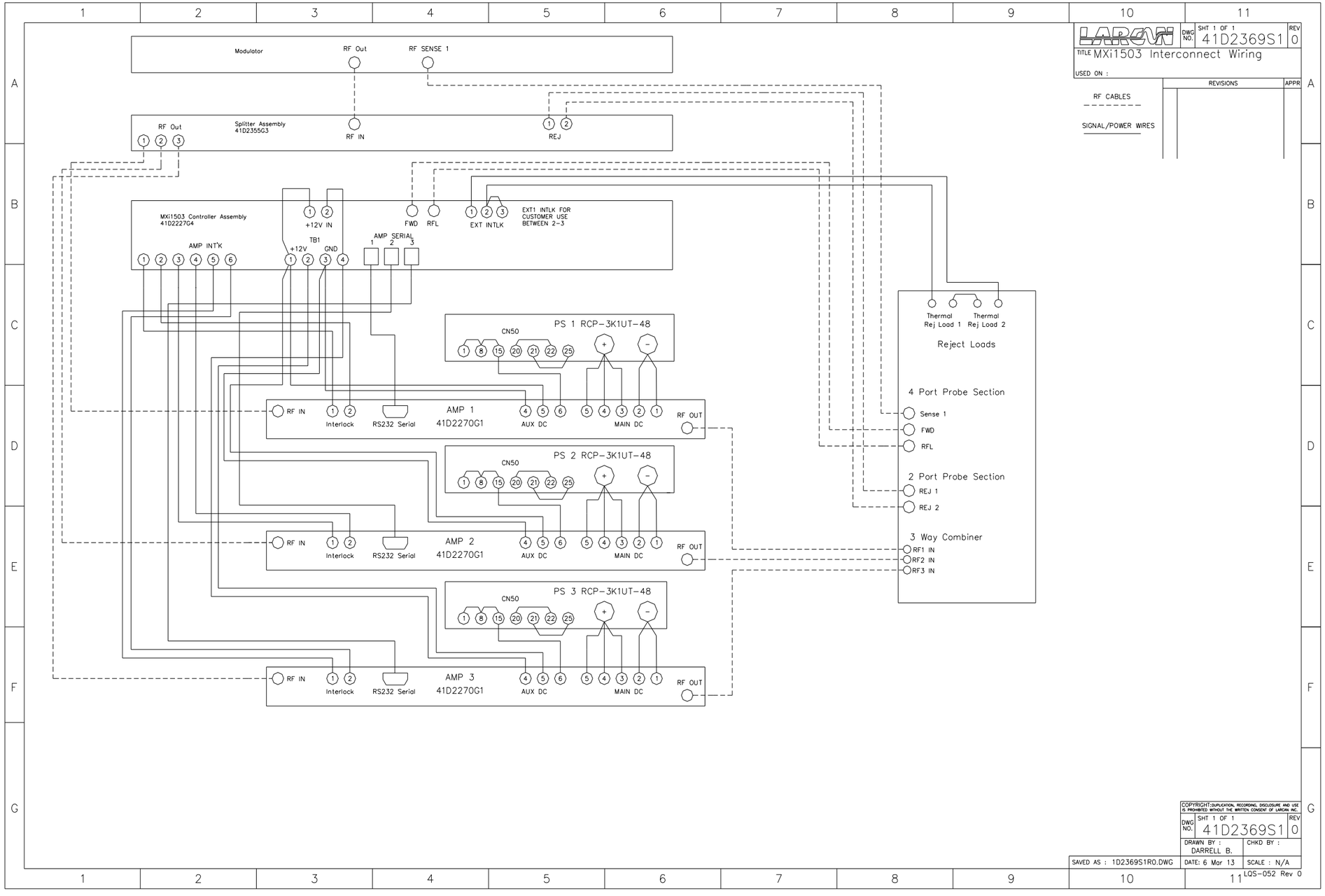

Figure 2 MXi1503 Interconnect Wiring 41D2369S1 Rev 0

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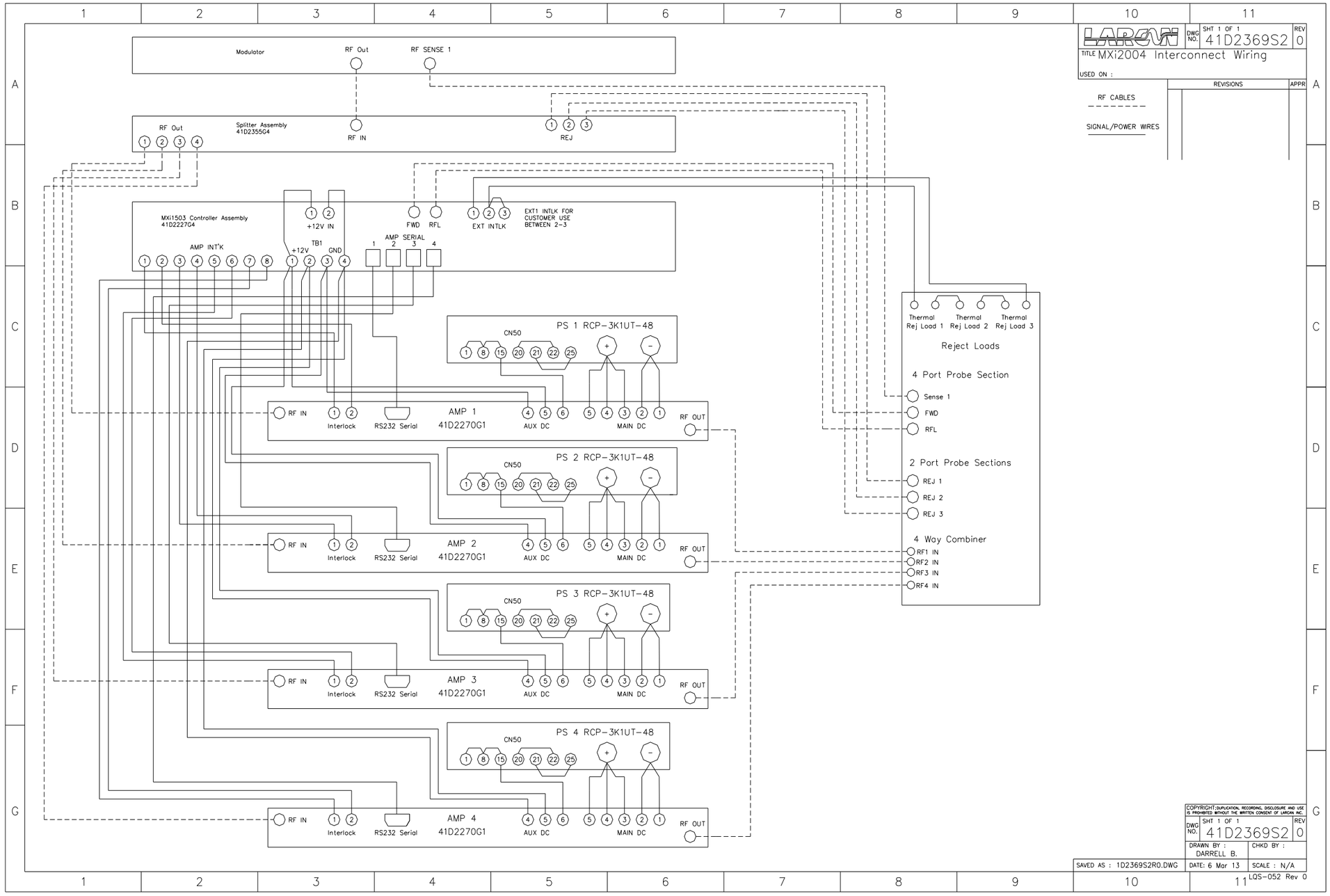

Figure 3 MXi2004 Interconnect Wiring 41D2369S2 Rev 0

2 VENDOR DATASHEET

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