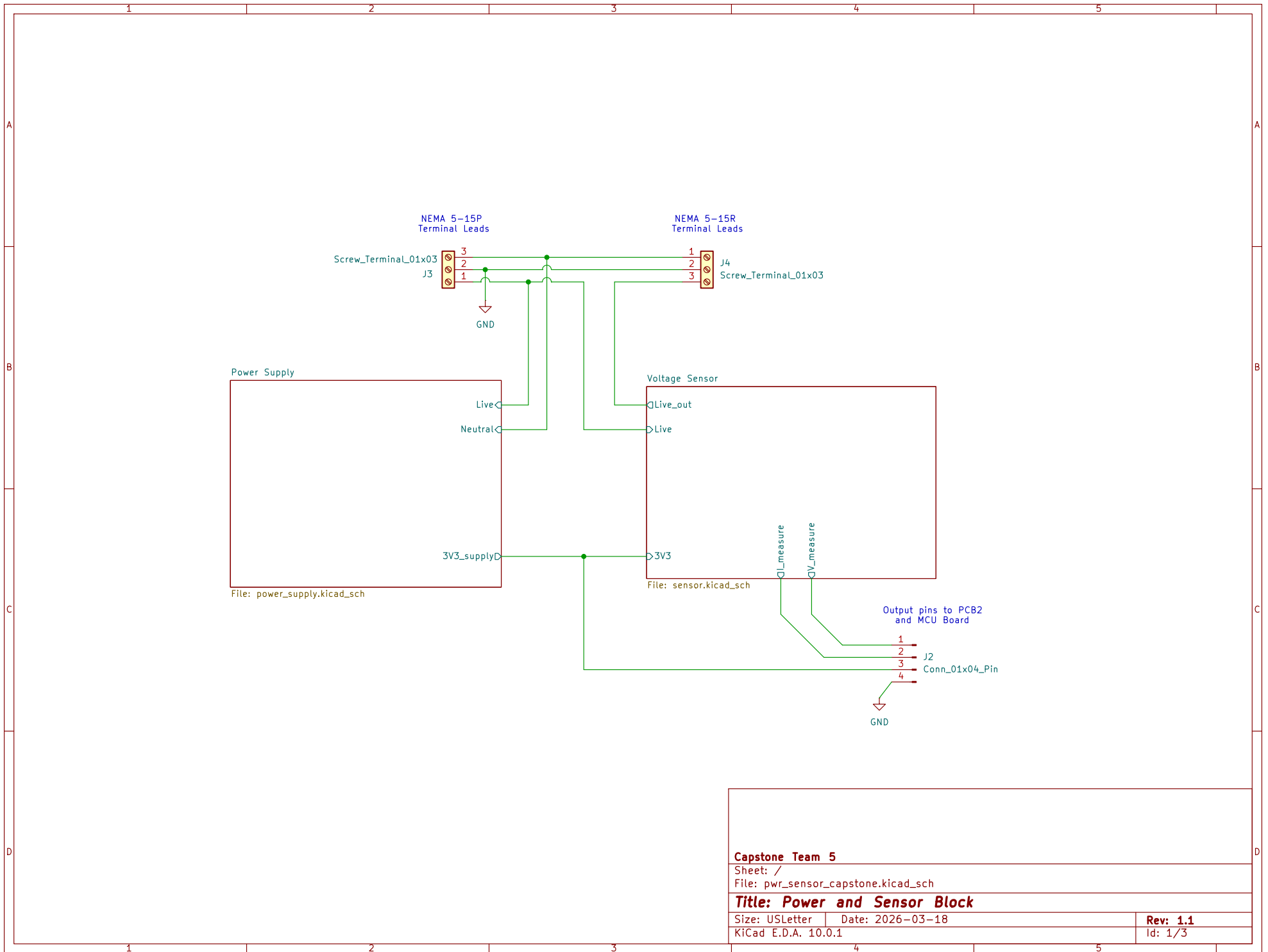




Capstone Team 5

Sheet: /

File: pwr_sensor_capstone.kicad_sch

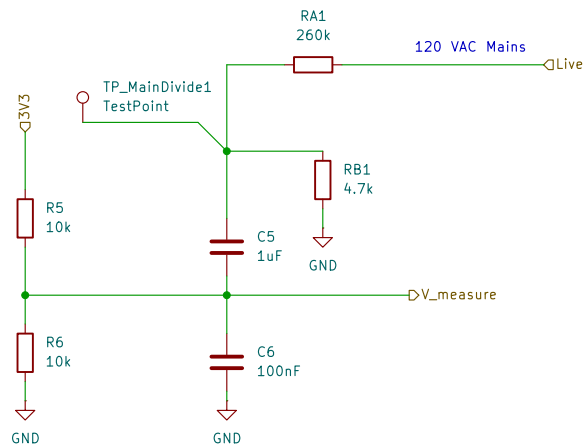
Title: Power and Sensor Block

Size: USLetter Date: 2026-03-18

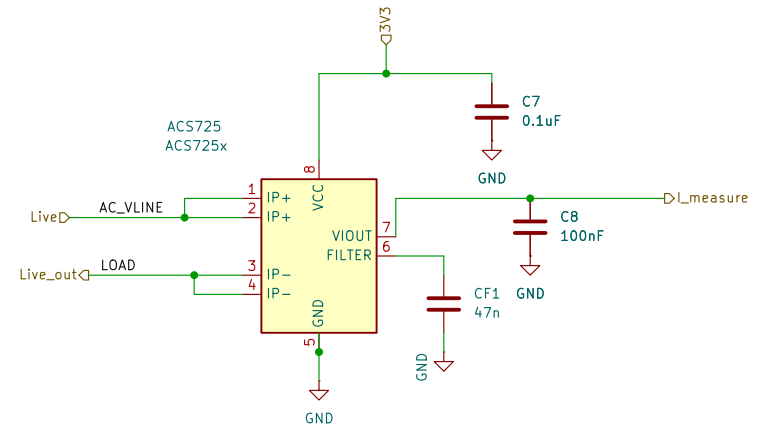
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Rev: 1.1

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Voltage Divider and Bias



ACS711 Current Sensor

Test Point Signal	Description
TP_MainDivide	Divided Mains Voltage Signal
TP_VDC2	Alternative test point for 3.3V to allow for isolation from the power supply
TP_GND2	Alternative test point access to circuit ground

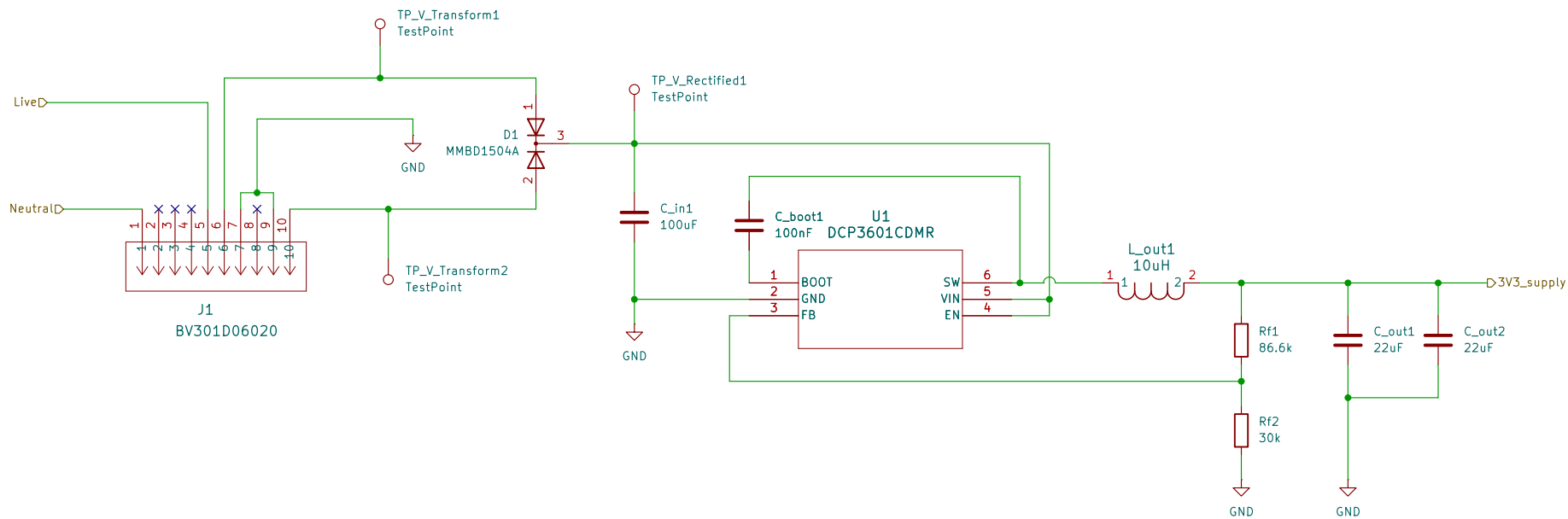
Capstone Team 5

Sheet: /Voltage Sensor/
File: sensor.kicad_sch

Title: Sensors

Size: USLetter Date: 2026-03-18
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Test Point Signal	Description
TP_VDC	Output 3.3VDC from the buck converter
TP_GND	Circuit Ground
TP_V_SW	Output switching voltage from buck converter
TP_FBK	Voltage returned to the feedback pin on buck
TP_V_Rectified	Voltage after being rectified but before the buck converter
TP_V_Transform1	Test point to measure voltage on one of the secondary coils for the transformer
TP_V_Transform2	Test point to measure voltage on one of the secondary coils for the transformer

Adjusted pin connections on diode and transformer to accomodate PCB modifications
 Removed 0 ohm Resistor

Capstone Team 5

Sheet: /Power Supply/
 File: power_supply.kicad_sch

Title:

Size: A4

Date: 2026-03-18

Rev: 1.1

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Id: 3/3