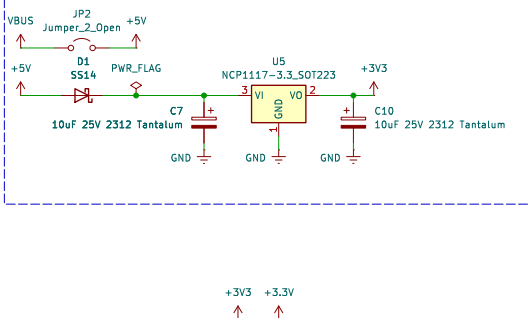
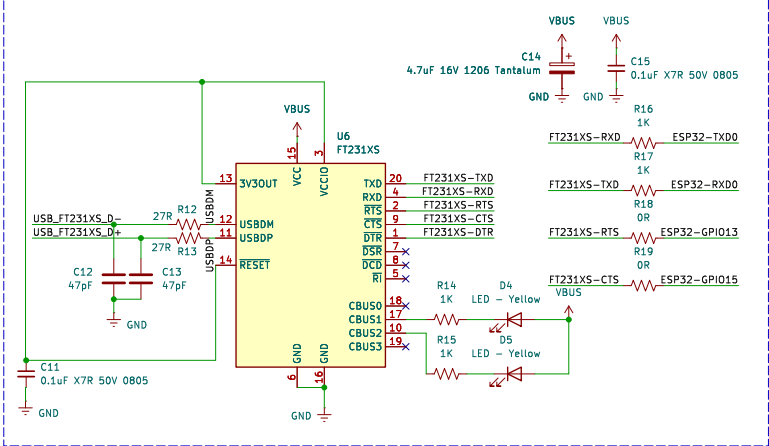


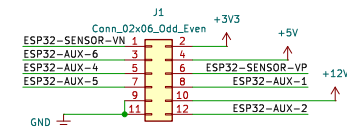
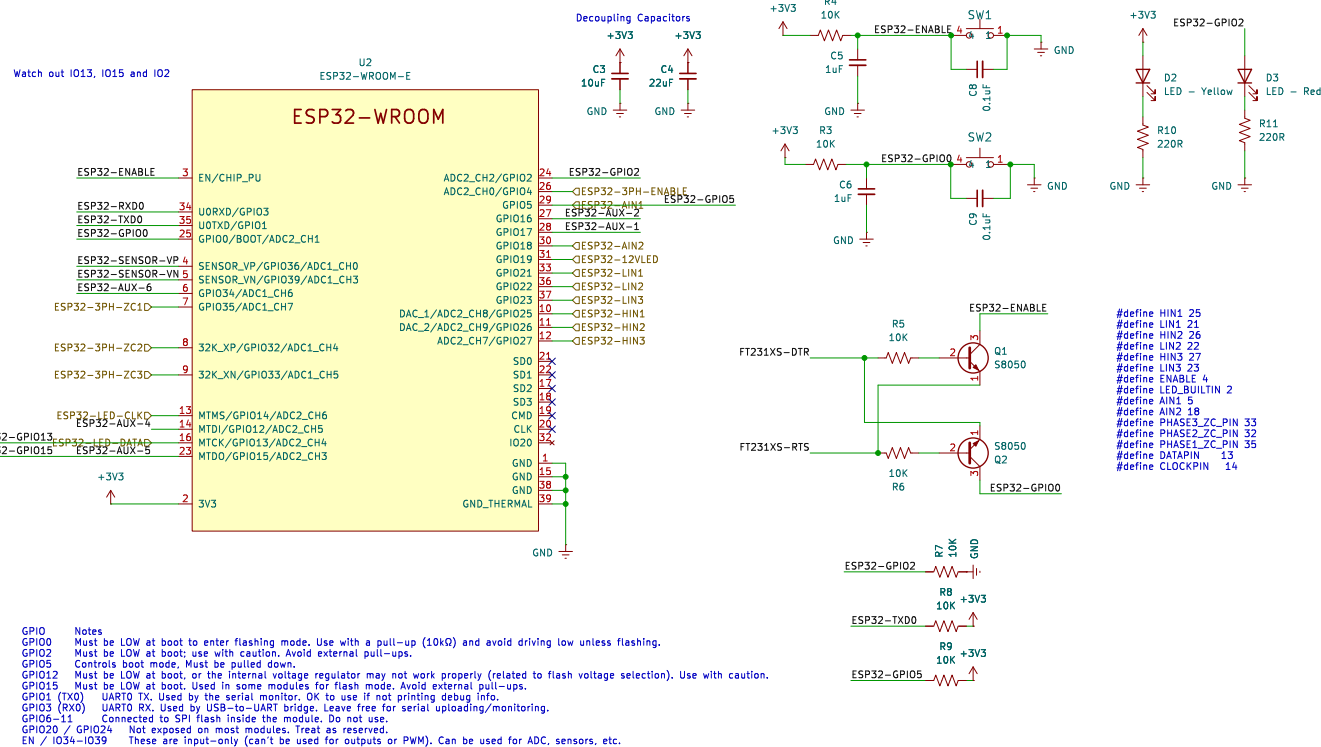
	4	5
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6	7	8
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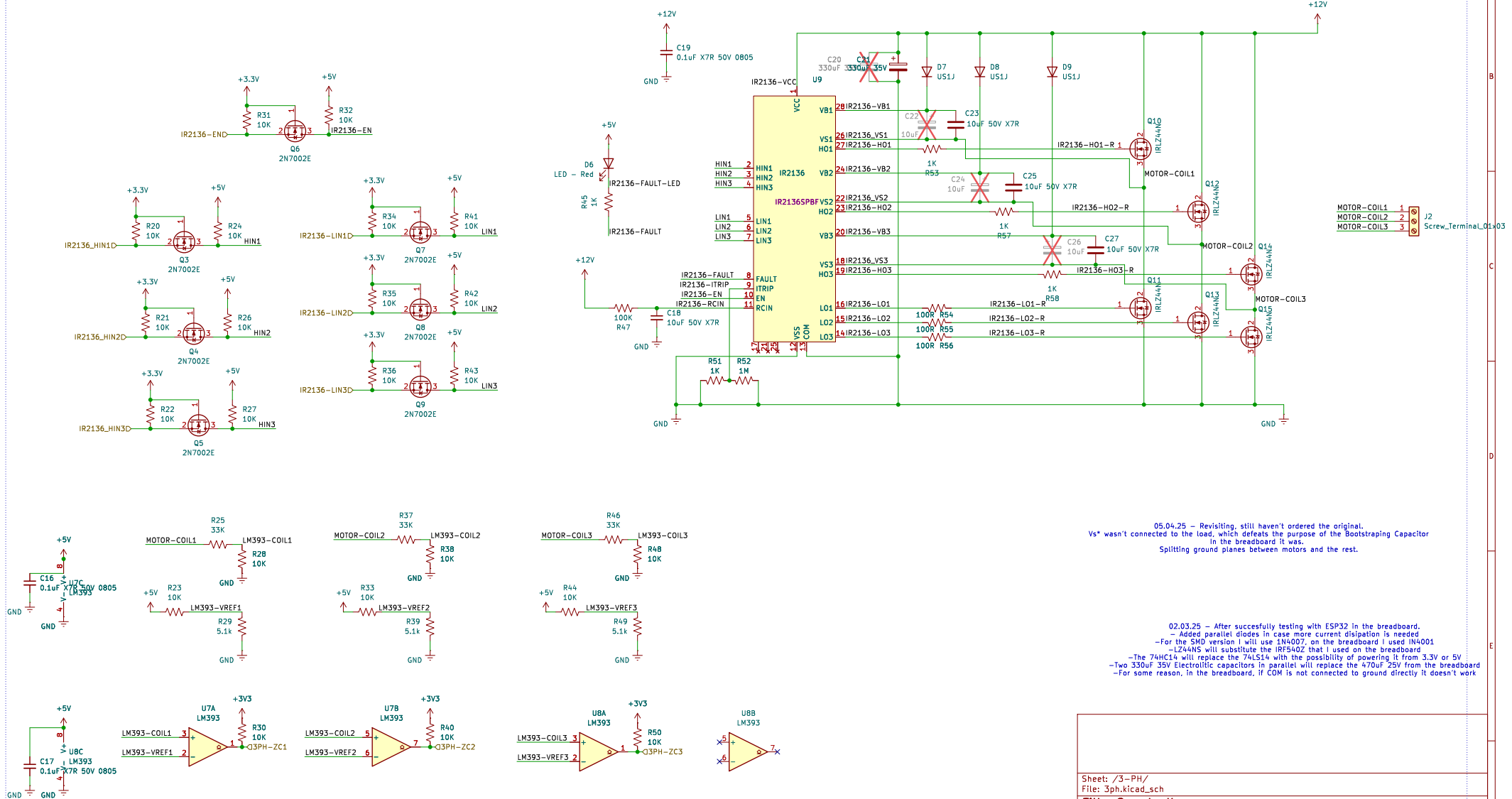
ESP32-WROOM-32E



Sheet: /ESP32-WROOM-32/
 File: ESP32-WROOM-32.kicad_sch
Title: Soundwalk
 Size: A3 | Date: 2025-07-23 | Rev: **1**
 KiCad E.D.A. 8.0.7 | | | Id: 2/6

Rev: 1
Id: 2/6

THREE-PHASE MOTOR *IR2136*



05.04.25 - Revisiting, still haven't ordered the original.
Vs* wasn't connected to the load, which defeats the purpose of the Bootstrapping Capacitor in the breadboard it was.
Splitting ground planes between motors and the rest.

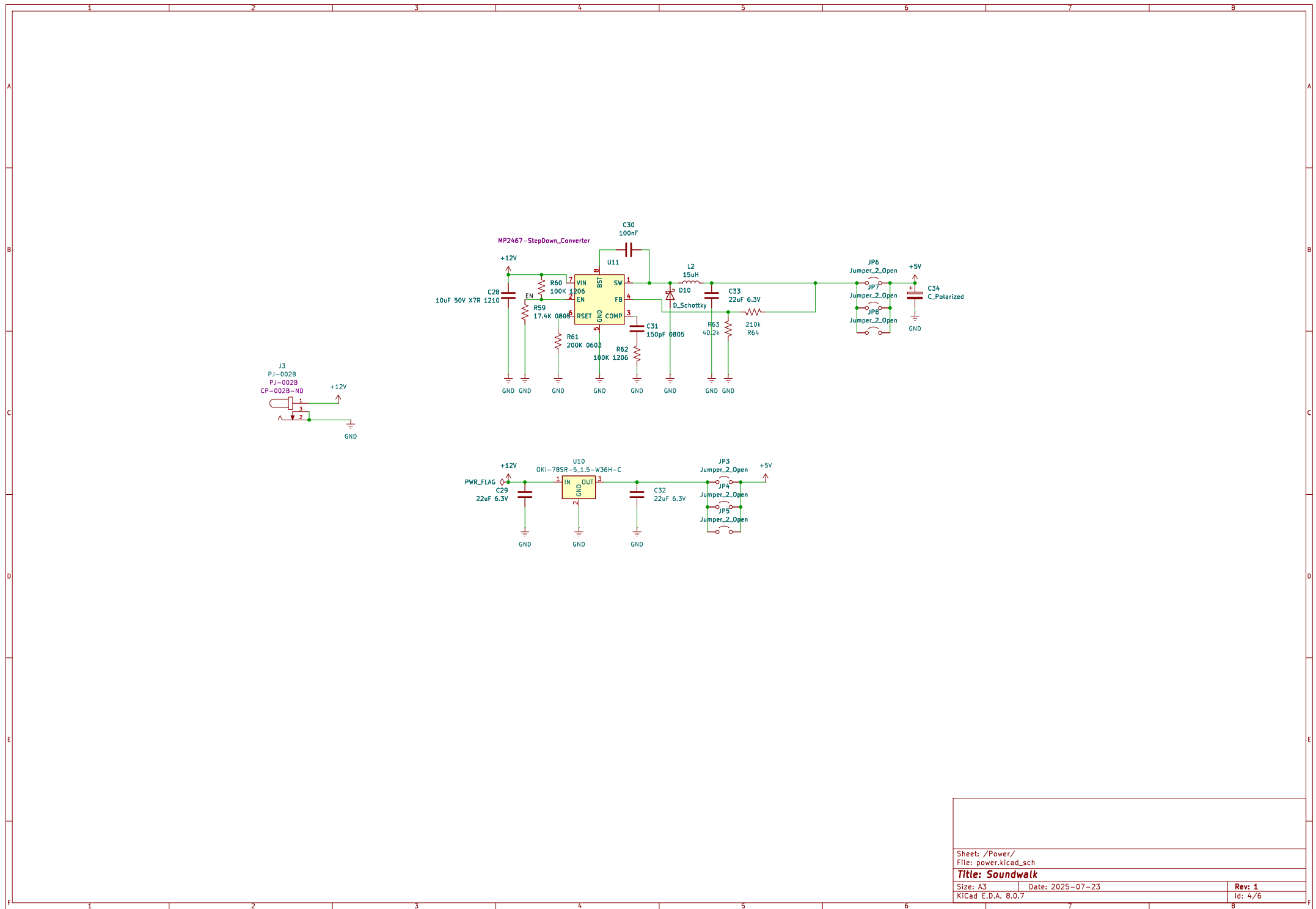
02.03.25 - After successfully testing with ESP32 in the breadboard.
- Added parallel diodes in case more current dissipation is needed.
- For the SMD version I will use 1N4007, on the breadboard I used 1N4001.
- L244NS will substitute the IRF540Z that I used on the breadboard.
- The 74HC14 will replace the 74LS14 with the possibility of powering it from 3.3V or 5V.
- Two 330uF 35V Electrolytic capacitors in parallel will replace the 470uF 25V from the breadboard.
- For some reason, in the breadboard, if COM is not connected to ground directly it doesn't work.

Sheet: /3-PH/
File: 3ph.kicad_sch
Title: Soundwalk

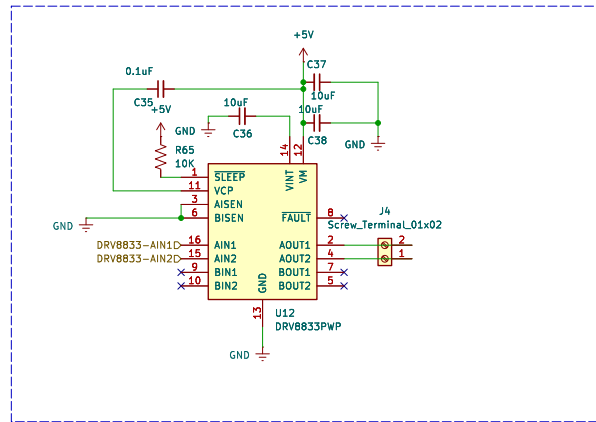
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KiCad E.D.A. 8.0.7

Date: 2025-07-23

Rev: 1
Id: 3/6



DRV8833 – Adafruit Board



Sheet: /drv8833-dc-motor/
File: drv8833.kicad_sch

Title: Soundwalk

Size: A3 Date: 2025-07-23
KiCad E.D.A. 8.0.7

Rev: 1
Id: 5/6

