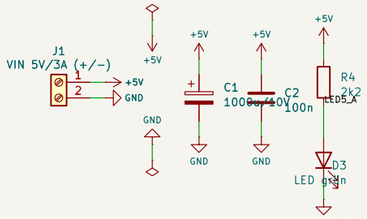
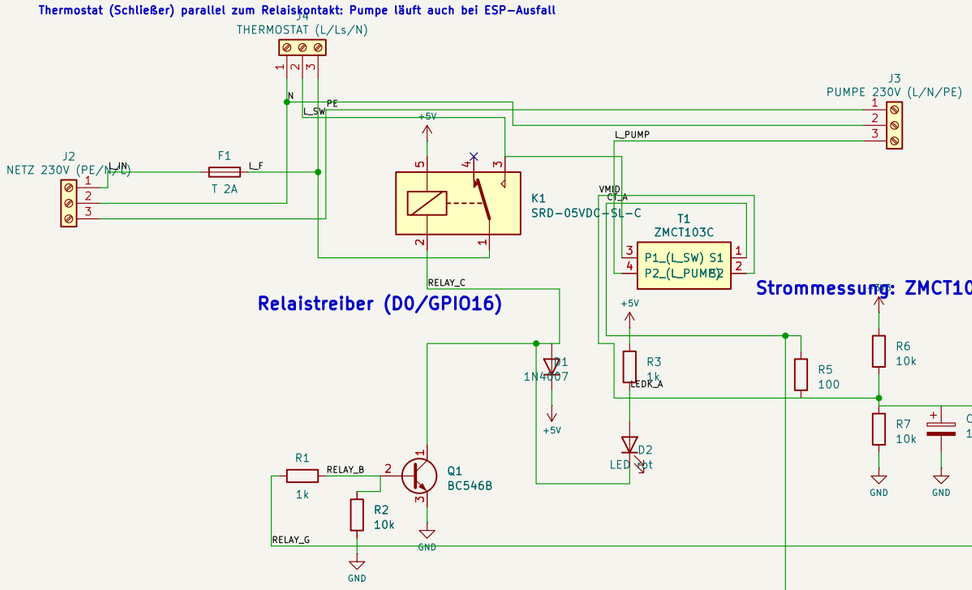
Versorgung 5 V / 3 A (Servo)



230 V: Netz -> T2A -> Relais || Thermostat -> Stromwandler -> Pumpe

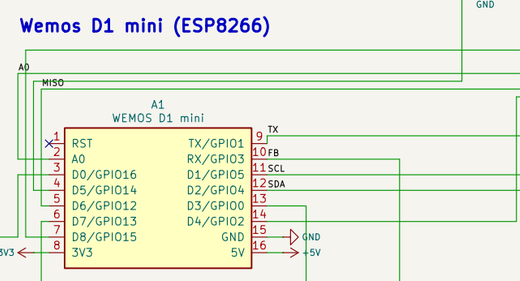
Thermostat (Schließer) parallel zum Relaiskontakt: Pumpe läuft auch bei ESP-Ausfall



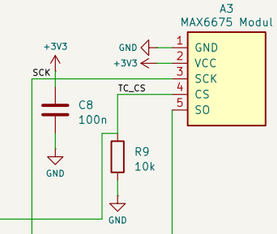
Relaistreiber (D0/GPIO16)

Strommessung: ZMCT103C 1000:1, Bürde 100 R, Mitte 1,65 V -> ADS1115 A0–A1

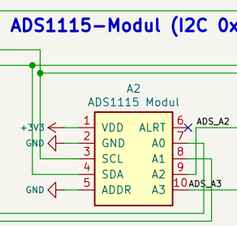
Wemos D1 mini (ESP8266)



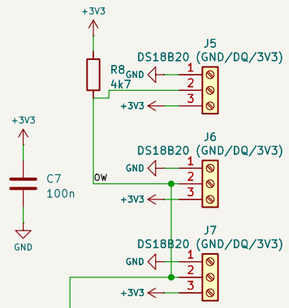
Abgas: MAX6675 + Thermoelement Typ K



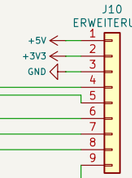
ADS1115-Modul (I2C 0x48)



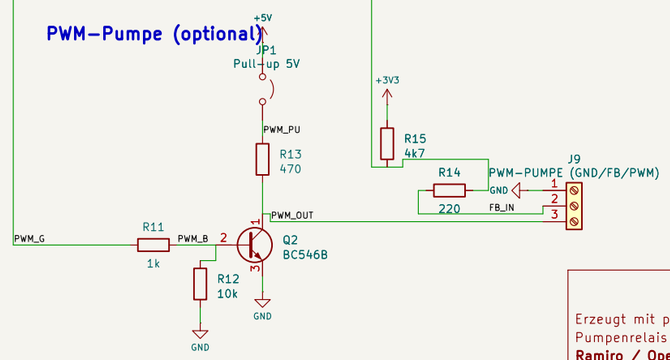
1-Wire DS18B20 (3 Klemmen, ein Bus)



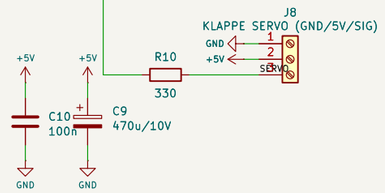
Erweiterung



PWM-Pumpe (optional)



Luftklappe: Servo MG996R



Befestigung M3



Erzeugt mit pcb/gen_sch.py aus design.py + sch_layout.py – Änderungen dort, dann neu erzeugen
Pumpenrelais 230 V + Thermostat parallel + Strommessung, Abgas Typ K, 3x DS18B20, Servo-Luftkla

Ramiro / OpenClaw

Sheet: /
File: ofensteuerung.kicad_sch

Title: Ofensteuerung (Wemos D1 mini)

Size: A3	Date: 2026-11-07	**Rev: 1.0**
KiCad E.D.A. 10.0.7		Id: 1/1