

Resistor to Current (Tranform Ratio 3000:1)

Current	Rcurr	Current Type
1000A	3Ω	0
750A	3.9Ω	1
500A	5.6Ω	2
300A	10Ω	3
200A	15Ω	4
120A	24Ω	5
80A	36Ω	6

Resistor to Voltage (Primary)

Voltage	RPvolt	Voltage Type
440Vac	300kΩ	0
380Vac	270kΩ	1
220Vac	180kΩ	2
127Vac	120kΩ	3

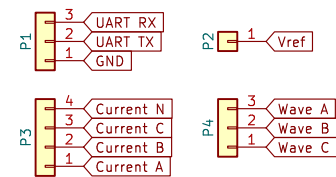
Resistor to Voltage (Secondary)

Voltage	RSvolt	Voltage Type
440Vac	620Ω	0
380Vac	620Ω	1
220Vac	620Ω	2
127Vac	680Ω	3

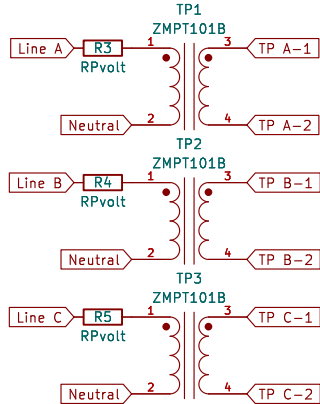
Type of Electrical System

Type	System Type
Single-phase (P+N)	0
Biphasic (2P)	0
Biphasic (2P+N)	1
Three-phase (3P+N)	2

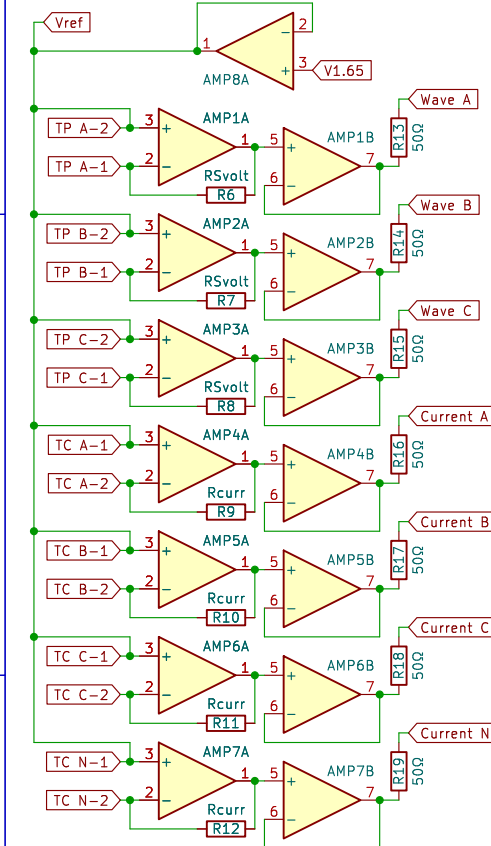
Proof pins



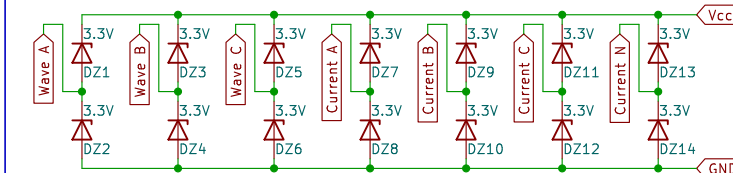
Voltage Transformation



Signals Conditioning



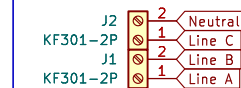
Protection Zeners



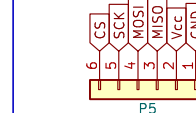
TCs Connections



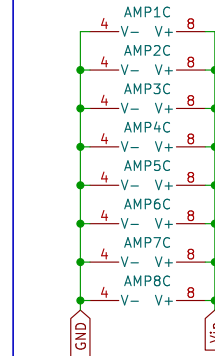
Voltage Inputs



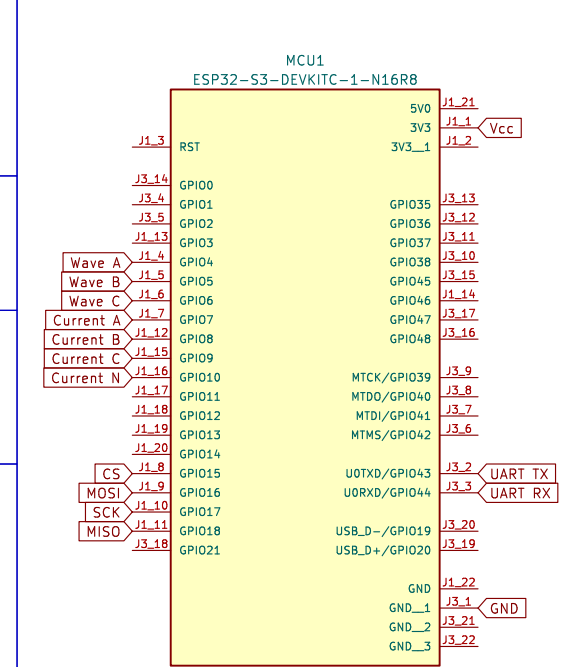
SD Card



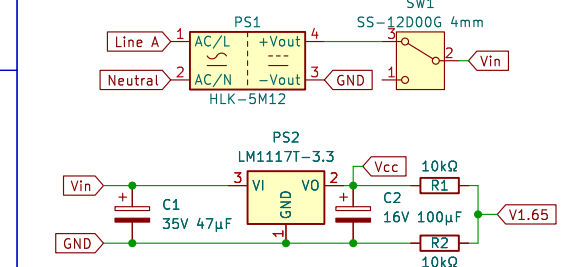
TL082s Power



MCU



Power



Observation

After selecting the ideal resistor for your application, according to the tables, remember to modify the value of the variables "CURRENT TYPE", "VOLTAGE_TYPE" and "SYSTEM_TYPE" in the MCU code according to what's in the tables

github.com/lucasguerra/power_vision
linkedin.com/in/lucasguerra

Sheet: /
File: board.kicad_sch

Title: Power Vision V3.3 Schematic

Size: A4 Date: 02/06/2024

KiCad E.D.A. kicad 7.0.10

Rev: 1.4

Id: 1/1