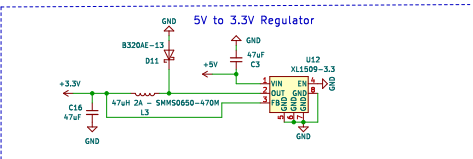


## 12V to 5V Regulator

[illegible]

The diagram illustrates the relay control circuit. It features two relays, SBu1 and SBu2, which are controlled by a 5V logic signal from the PLC. The control circuit uses two MOSFETs, Q1 and Q2, to switch the relays. The MOSFETs are driven by a 5V logic signal from the PLC. The relays are connected to a 230V AC supply. The diagram includes labels for components like R23, R24, Q1, Q2, and the relays SBu1 and SBu2.

### Decoupling capacitors

The diagram illustrates a decoupling capacitor network. A horizontal line represents the power supply rail, with a +3.3V supply connected to it. A series of capacitors (C1, C2, C5, C11, C14) are connected in a chain between the supply rail and ground (GND). The capacitors are labeled C1, C2, C5, C11, and C14, with values of 100nF, 100nF, 100nF, 100nF, and 100nF respectively. The capacitors are connected in series, with C1 and C14 connected to the supply rail and ground respectively, and C2, C5, and C11 connected in series between the supply and ground.

Conn\_01x04\_Female

Diagram showing the wiring for the female connector J1:

- Pin 1: GND
- Pin 2: UART\_RX
- Pin 3: UART\_TX
- Pin 4: +3.3V