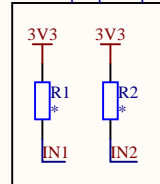
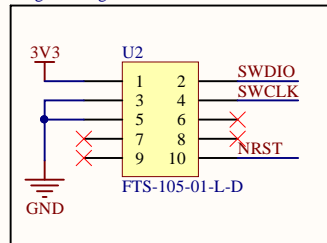


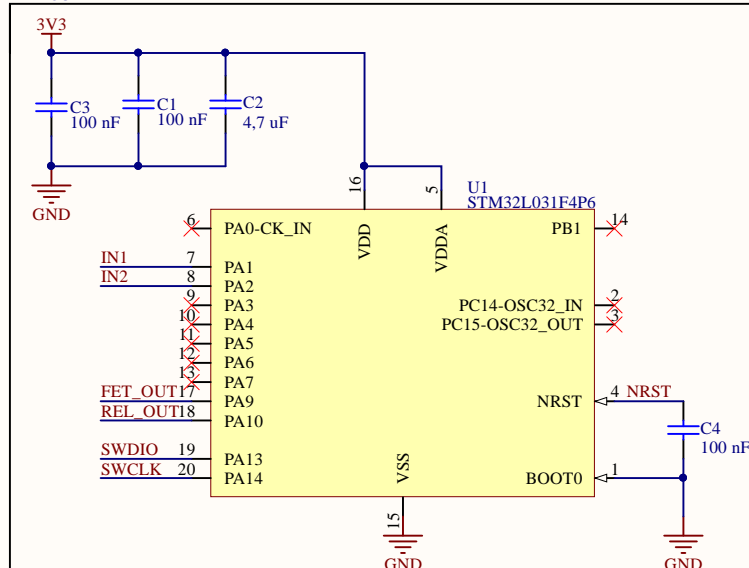
MCU input pull-ups



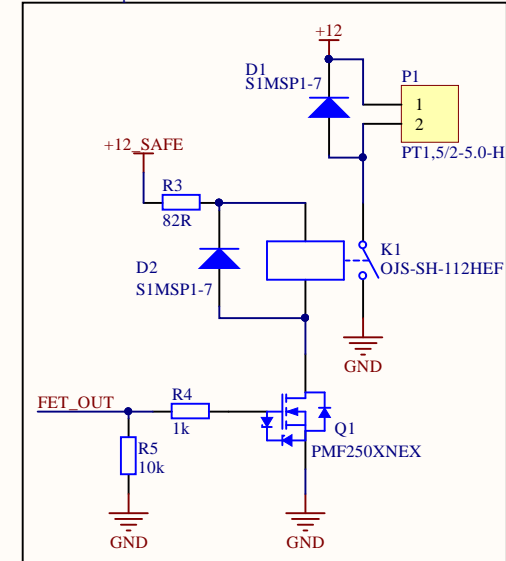
Programming connector



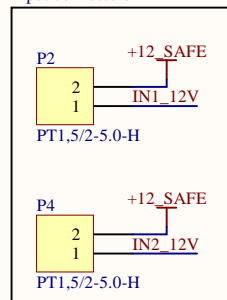
MCU



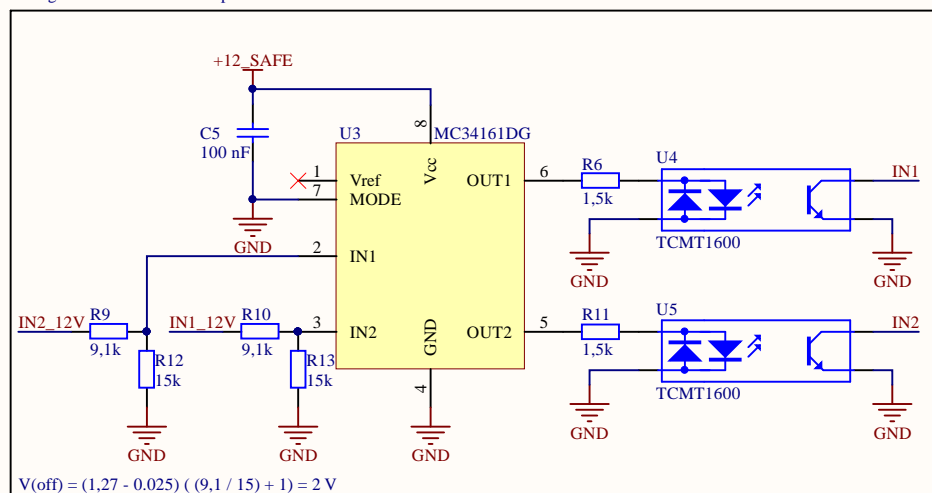
MOSFET output



Input connectors

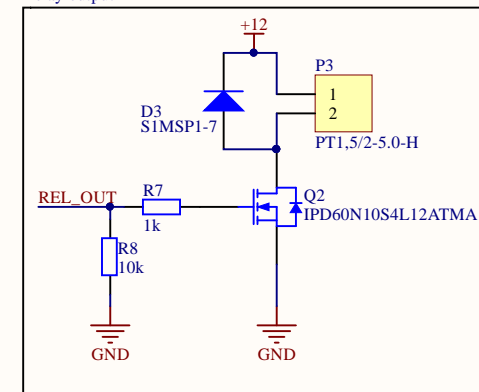


Voltage monitor - turn off output below 2 V



$$V(\text{off}) = (1,27 - 0,025) \left(\left(9,1 / 15 \right) + 1 \right) = 2 \text{ V}$$

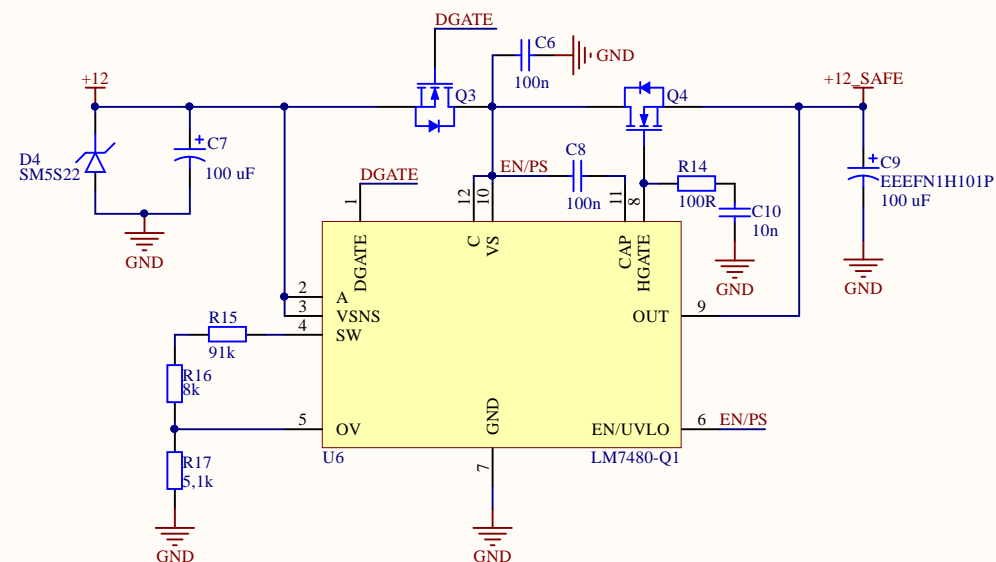
Relay output



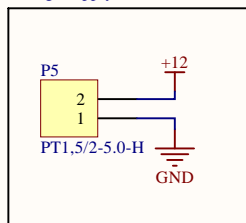
Title
Main SCH

Size	Number	Revision
A4		
Date:	5. 09. 2023	Sheet 2 of 2
File:	C:\Users\...\Medicop_Schematic.SchDoc	Drawn By: Blaž Kukovec

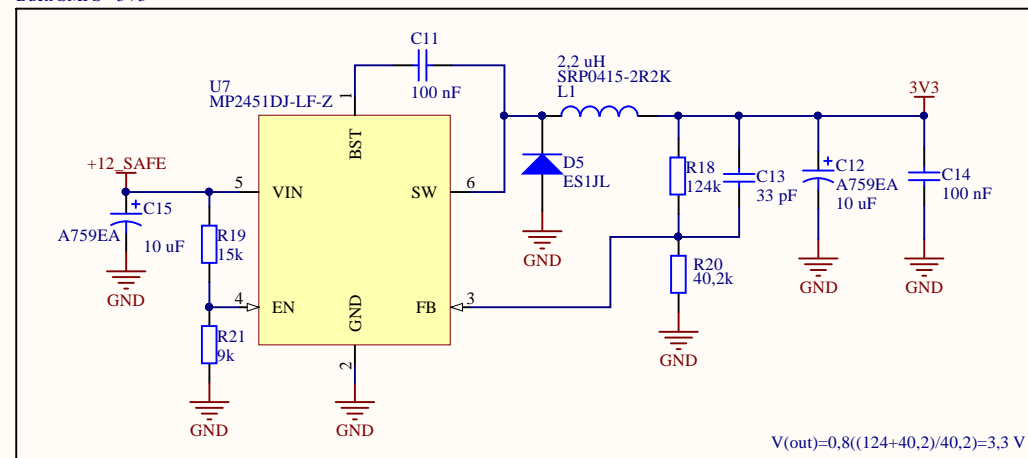
Load dump, reverse polarity and cranking protection



Voltage supply (12 V) connector



Buck SMPS - 3V3



$$V(\text{out}) = 0.8 \cdot ((124 + 40.2) / 40.2) = 3.3 \text{ V}$$

Title			
Power supply SCH			
Size	Number		Revision
A4			
Date:	5. 09. 2023	Sheet 1	of 2
File:	C:\Users\...Power_supply.SchDoc	Drawn By: Blaž Kukovec	

BOARD SLACK REPORT