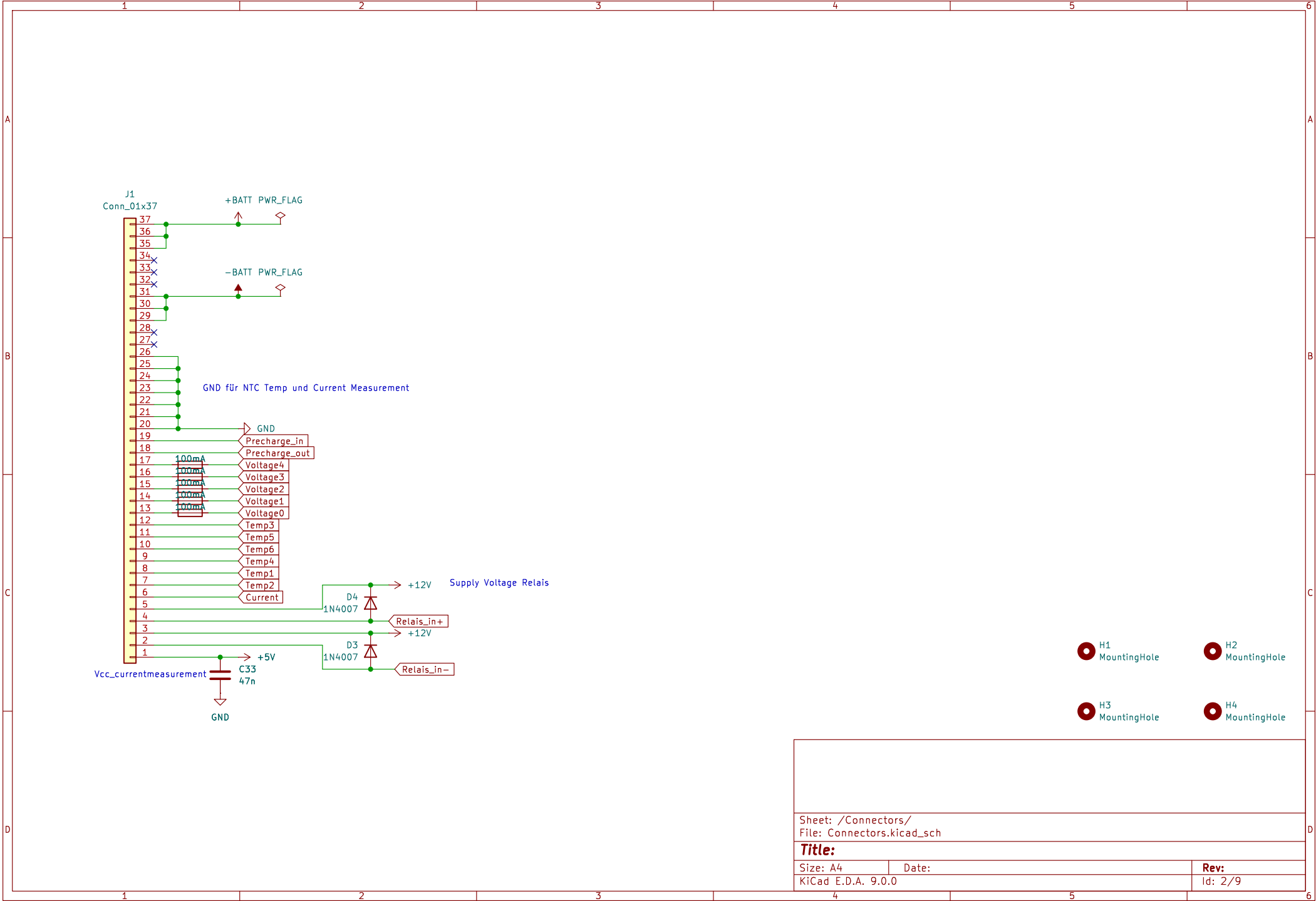
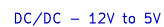
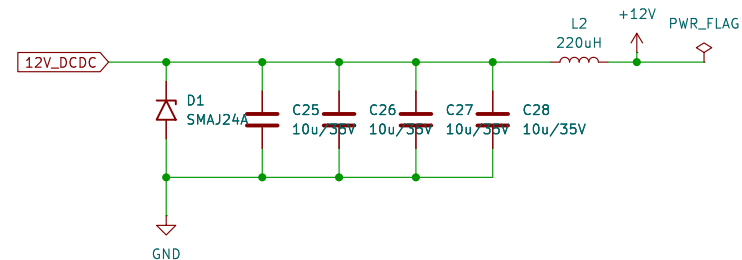
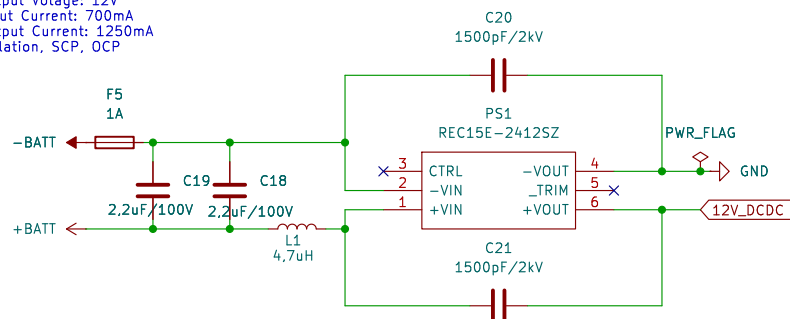


	1	2	3	4	5	6
A	<div>Connectors</div> <div>File: Connectors.kicad_sch</div>	<div>DCDC</div> <div>File: DCDC.kicad_sch</div>				
B	<div>Voltage Measurement</div> <div>File: Voltage Measurement.kicad_sch</div>	<div>Temperature Measurement</div> <div>File: Temperature Measurement.kicad_sch</div>	<div>Current Measurement</div> <div>File: Current Measurement.kicad_sch</div>			
C	<div>Main Contactor Control</div> <div>File: Main Contactor Control.kicad_sch</div>	<div>Precharge</div> <div>File: Precharge.kicad_sch</div>	<div>uC</div> <div>File: uC.kicad_sch</div>			
D						<div>Sheet: / File: BMS_PCB.kicad_sch</div> <div>Title: <b>Schematic BMS PCB</b></div> <div>Size: A4Date: 2025-04-09</div> <div>KiCad E.D.A. 9.0.0Rev: Id: 1/9</div>
	1	2	3	4	5	6

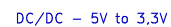
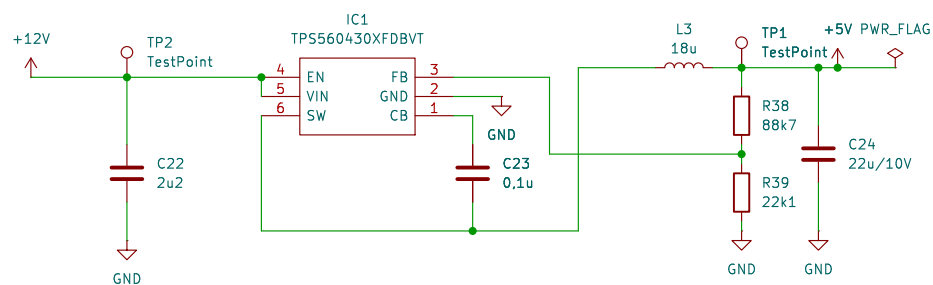




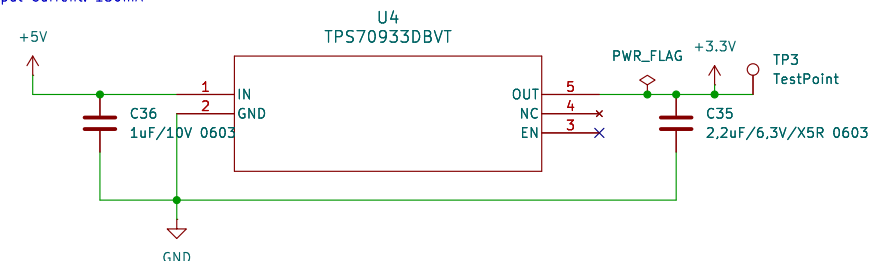
Input Voltage Range: 9 – 36V  
Output Voltage: 12V  
Input Current: 700mA  
Output Current: 1250mA  
Isolation, SCP, OCP



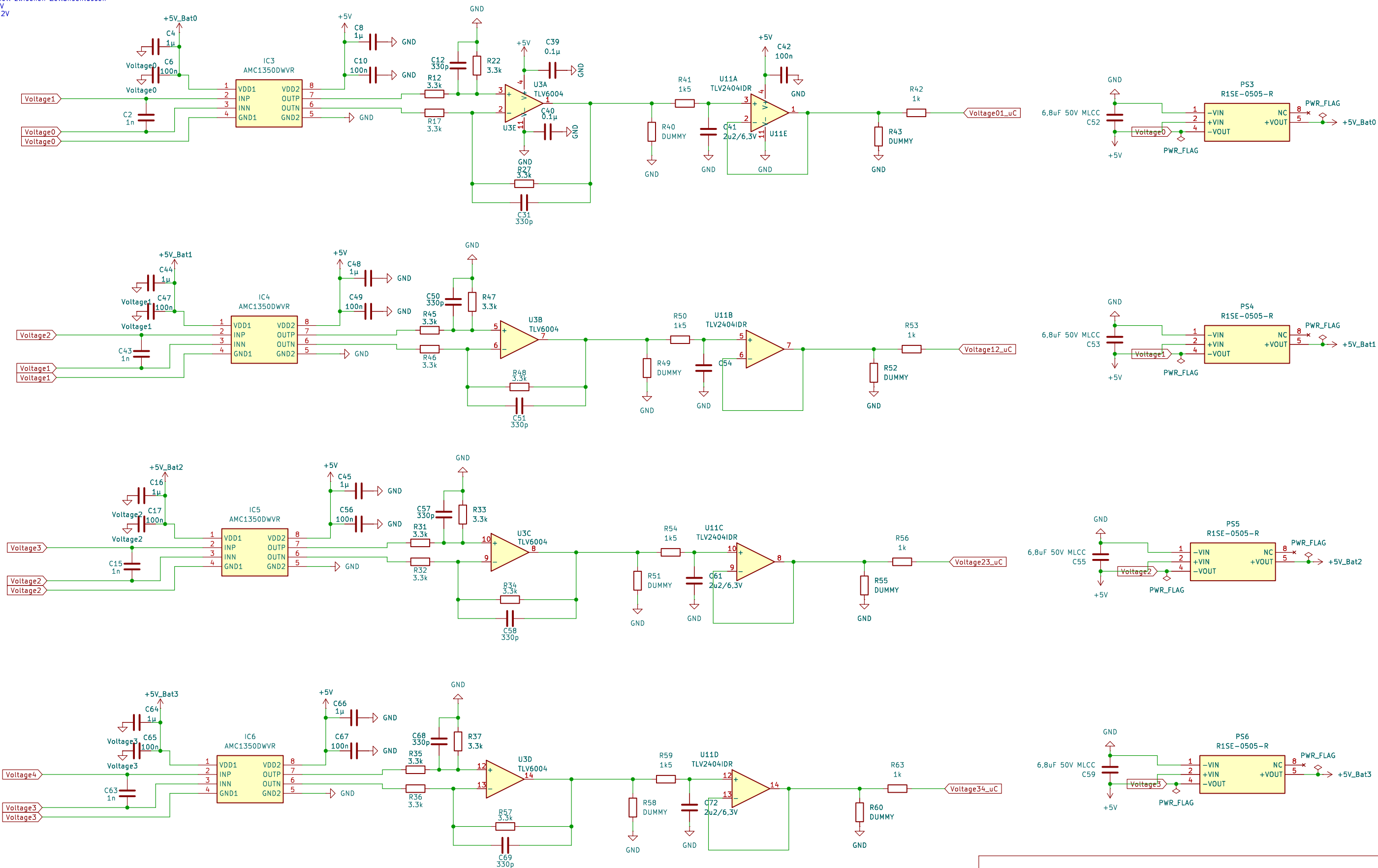
Input Voltage Range: 4 – 36V  
Output Voltage: 5V (Adjustable Output Voltage)  
Output Current: 600mA  
OCP, SCP, Soft Start

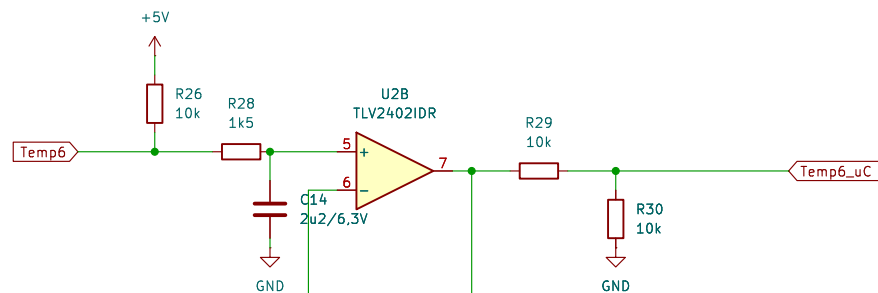
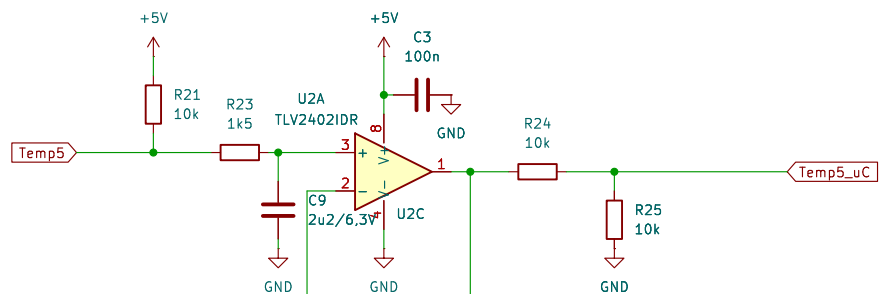
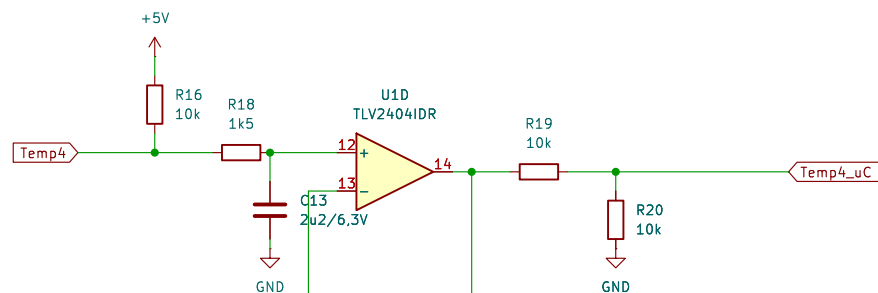
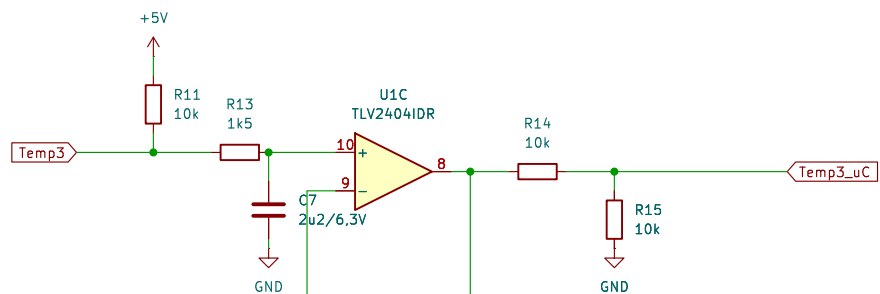
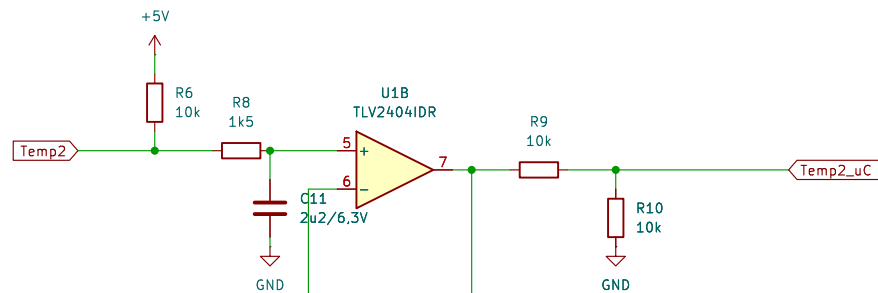
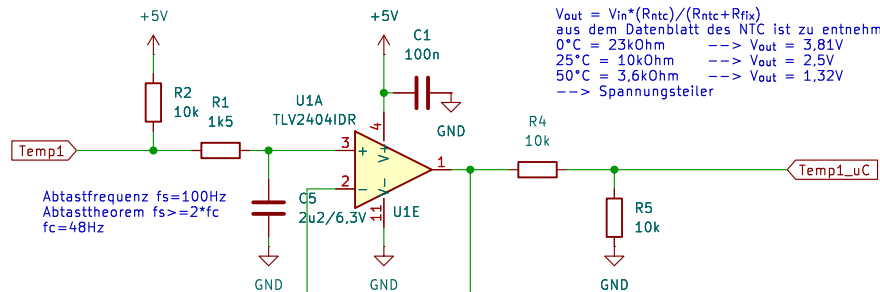


LDO  
Output Voltage: 3.3V  
Output Current: 150mA



Isolierter Differenzierer AMC1350  
Messung differenziell zwischen Zellanschlüssen  
Input Range: +-5V  
Output Range: +-2V  
Nominal Gain: 0,4





Sheet: /Temperature Measurement/  
 File: Temperature Measurement.kicad\_sch

**Title:**

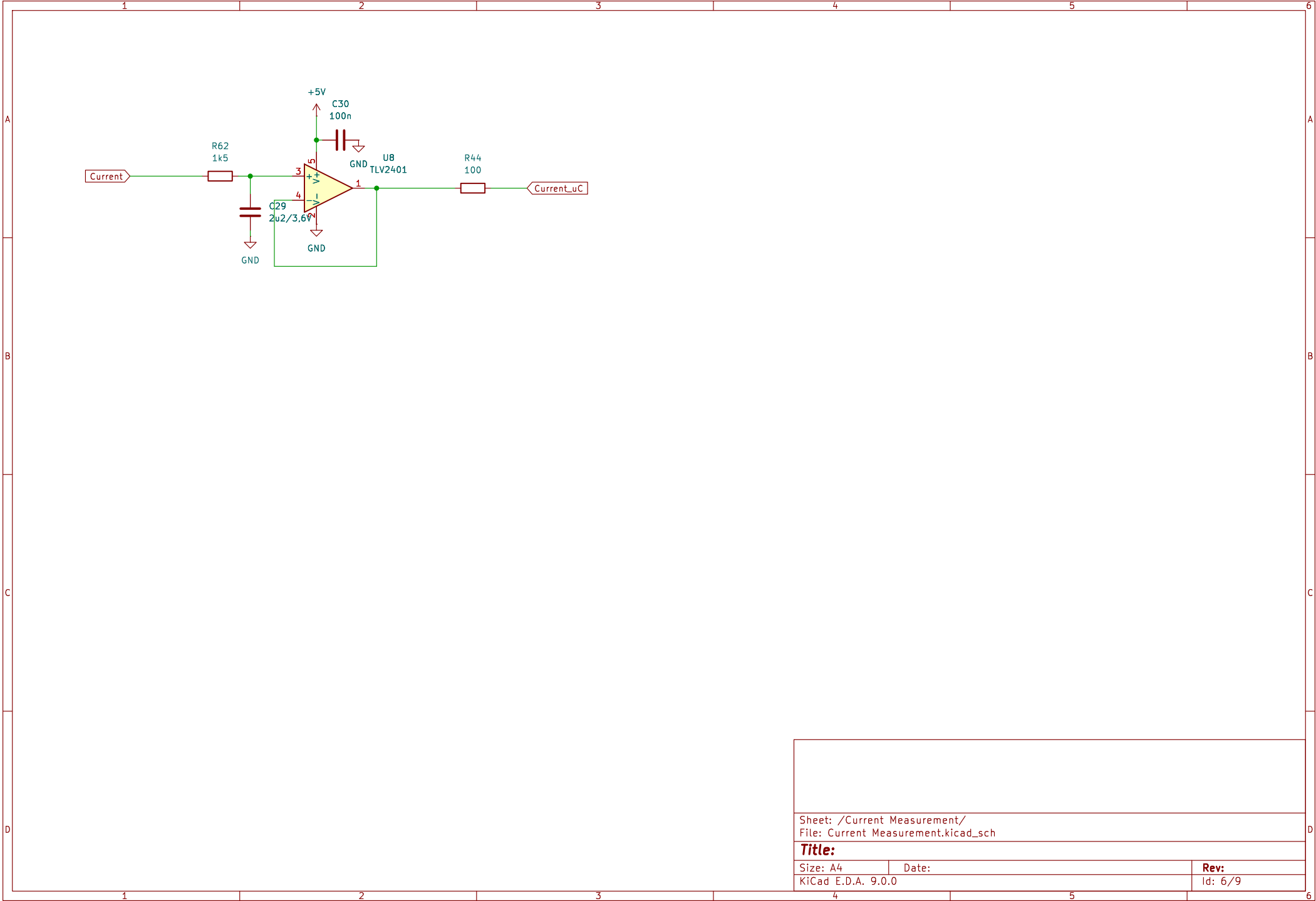
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Date:

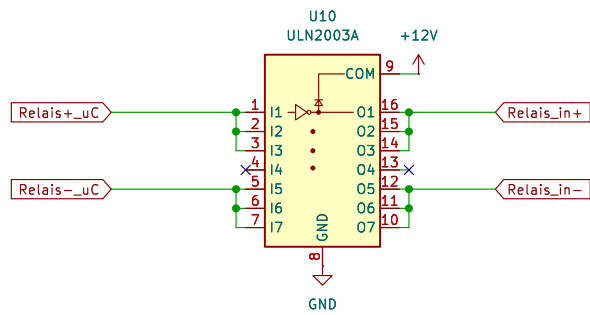
KiCad E.D.A. 9.0.0

**Rev:**

Id: 5/9



Sheet: /Current Measurement/ File: Current Measurement.kicad_sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. 9.0.0		Id: 6/9



Sheet: /Main Contactor Control/  
File: Main Contactor Control.kicad\_sch

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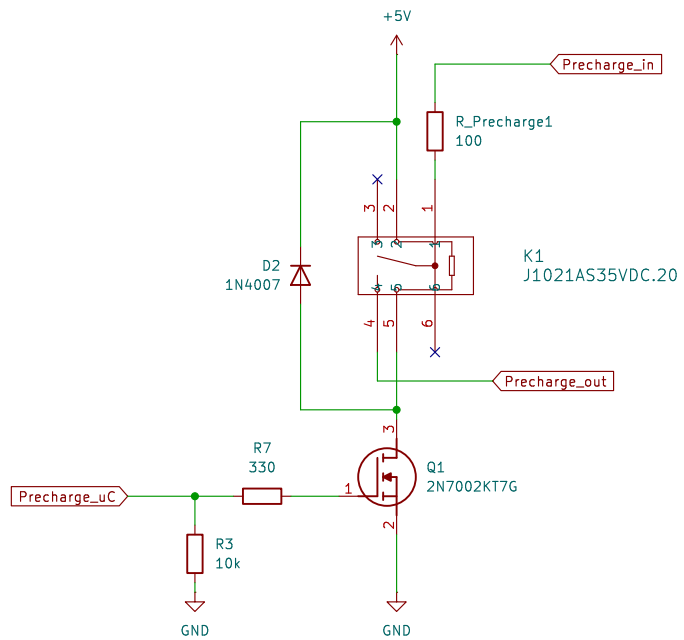
Size: A4

Date:

Rev:

KiCad E.D.A. 9.0.0

Id: 7/9



Sheet: /Precharge/  
File: Precharge.kicad\_sch

**Title:**

Size: A4

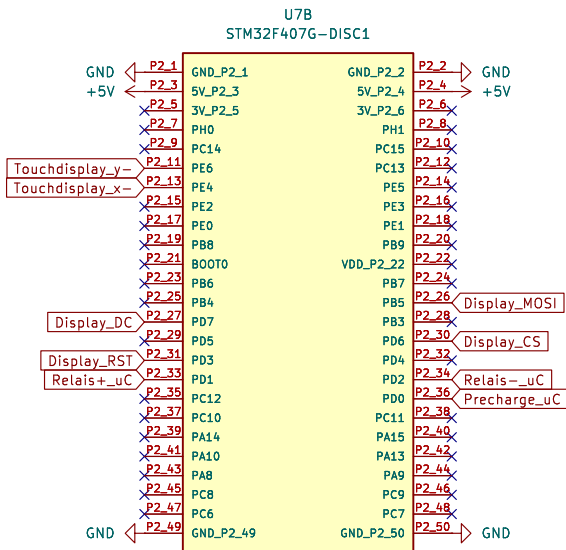
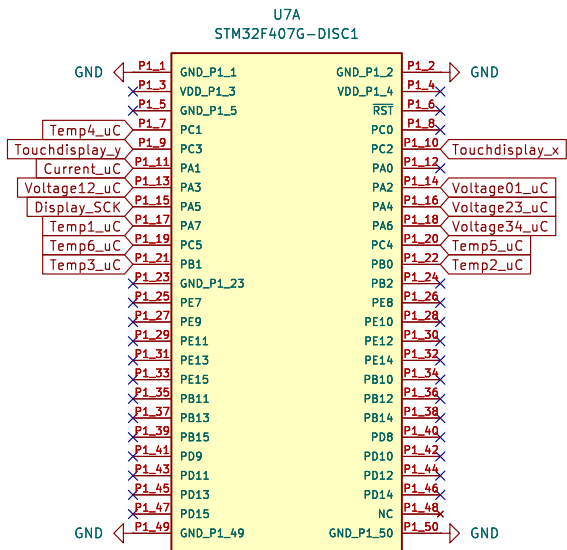
Date:

**Rev:**

KiCad E.D.A. 9.0.0

Id: 8/9





GPIO	ADC-Kanal	Signal	Bemerkung
PA0	ADC123_IN0	N/A - Button	User Button
PA1	ADC123_IN1	Current_uC	free
PA2	ADC123_IN2	Voltage01_uC	free
PA3	ADC123_IN3	Voltage12_uC	free
PA4	ADC12_IN4	Voltage23_uC	
PA5	ADC12_IN5	Display_SCK	SPI1_SCK
PA6	ADC12_IN6	Voltage34_uC	
PA7	ADC12_IN7	Temp1_uC	
PB0	ADC12_IN8	Temp2_uC	free
PB1	ADC12_IN9	Temp3_uC	free
PC0	ADC123_IN10		USB-Schnittstelle
PC1	ADC123_IN11	Temp4_uC	free
PC2	ADC123_IN12	Touchdisplay_x	free
PC3	ADC123_IN13	Touchdisplay_y	
PC4	ADC12_IN14	Temp5_uC	free
PC5	ADC12_IN15	Temp6_uC	free

Ansteuerung			
GPIO		Signal	Bemerkung
PD0		Precharge_uC	output
PD1		Relais+ uC	output
PD2		Relais- uC	output

Display			
GPIO		Signal	Bemerkung
PA5		Display_SCK	SPI1-SCK
PB5		SPI1_MOSI	SPI1_MOSI
PD6		Display_CS	CS
PD7		Display_DC	DC
PD3		Display_RST	RST

Touchdisplay			
GPIO		Signal	Bemerkung
PE4		Touchdisplay_x-	
PE6		Touchdisplay_y-	

