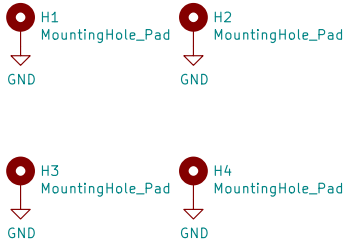
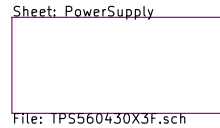
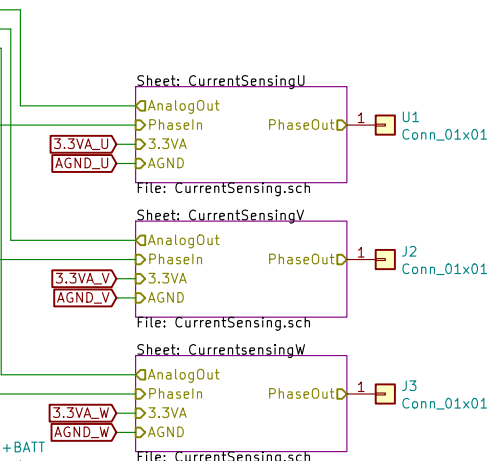
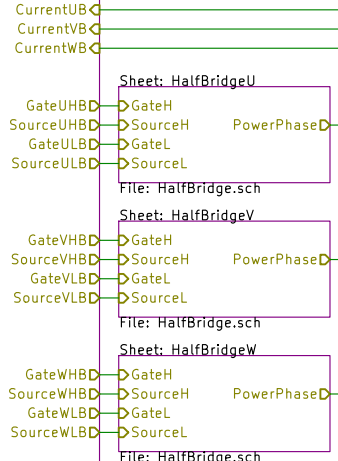
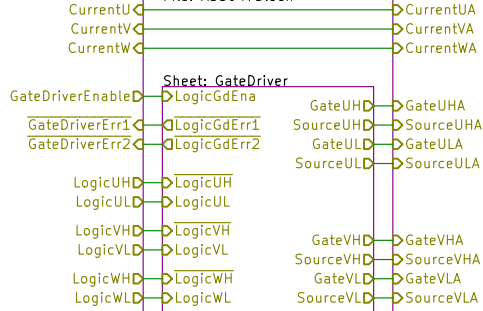
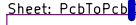
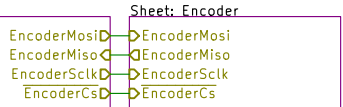
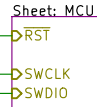
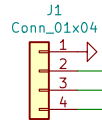
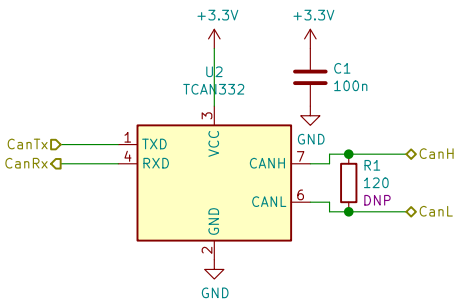


# PCB A

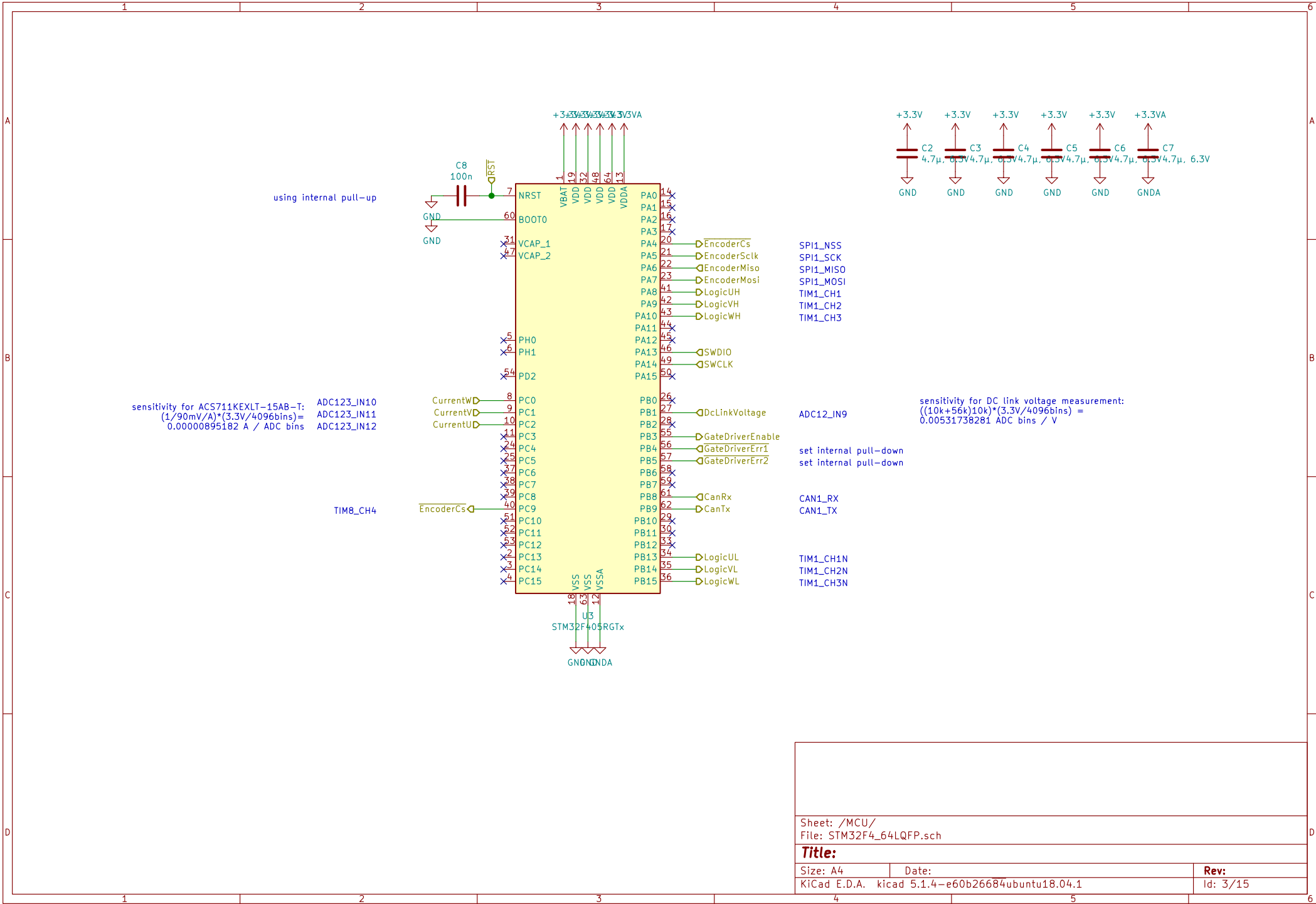
# PCB B



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KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu18.04.1		Id: 1/15



Sheet: /Can/ File: Can.sch		
Title:		
Size: A4	Date:	Rev:
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sensitivity for ACS711KEXLT-15AB-T:  
 $(1/90\text{mV/A}) \cdot (3.3\text{V}/4096\text{bins}) =$   
 $0.0000895182\text{ A / ADC bins}$

TIM8\_CH4

CurrentWD  
CurrentVD  
CurrentUD

EncoderCs

+3.3V +3.3VA +3.3V +3.3V +3.3V +3.3VA

STM32F405RGTx  
GND GND GND

+3.3V +3.3V +3.3V +3.3V +3.3V +3.3VA  
C2 C3 C4 C5 C6 C7  
4.7µF 4.7µF 4.7µF 4.7µF 4.7µF 4.7µF 6.3V

sensitivity for DC link voltage measurement:  
 $((10\text{k}+56\text{k})10\text{k}) \cdot (3.3\text{V}/4096\text{bins}) =$   
 $0.00531738281\text{ ADC bins / V}$

SPI1\_NSS  
SPI1\_SCK  
SPI1\_MISO  
SPI1\_MOSI  
TIM1\_CH1  
TIM1\_CH2  
TIM1\_CH3

ADC12\_IN9

set internal pull-down  
set internal pull-down

CAN1\_RX  
CAN1\_TX

TIM1\_CH1N  
TIM1\_CH2N  
TIM1\_CH3N

Sheet: /MCU/  
File: STM32F4\_64LQFP.sch

Title:

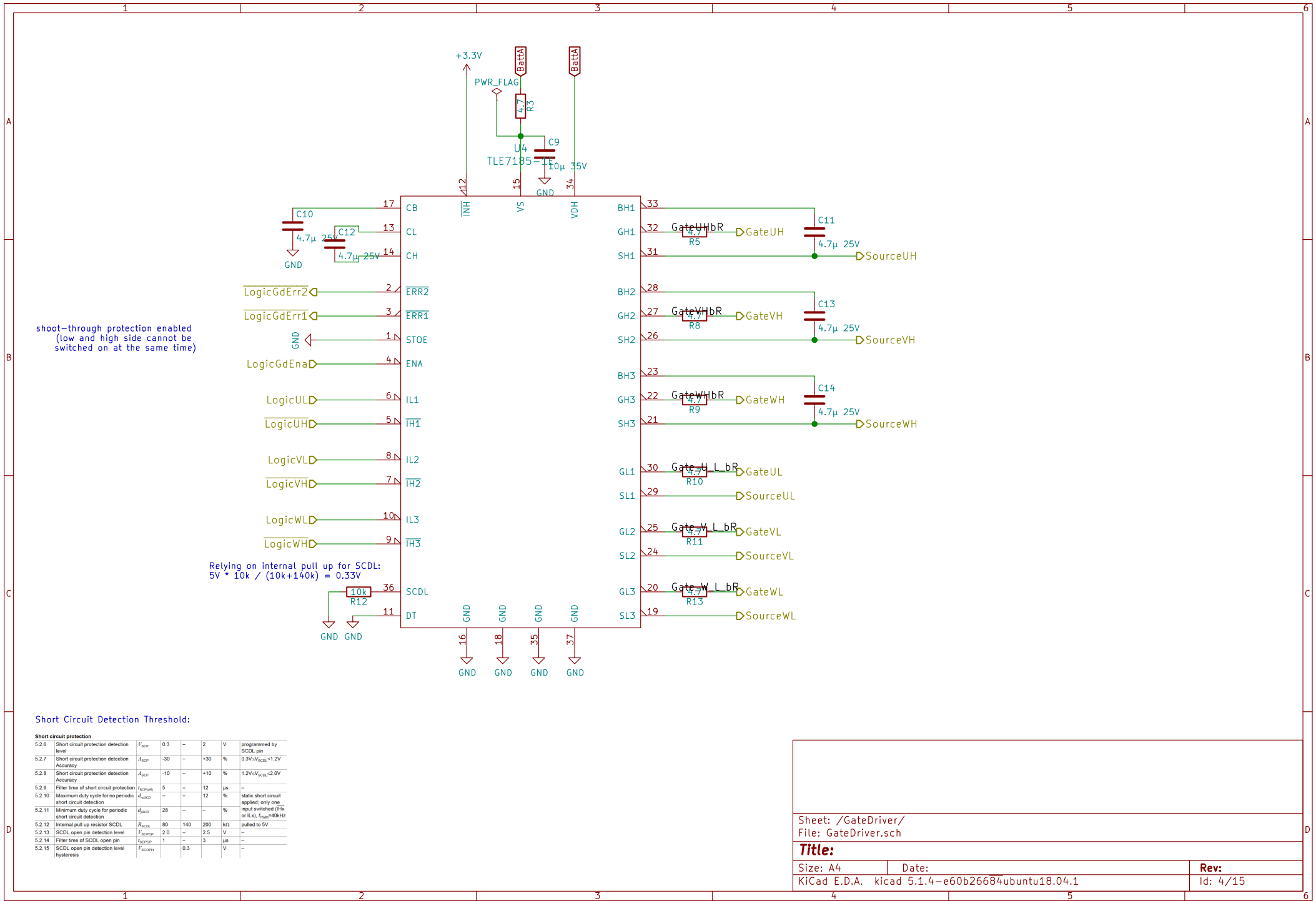
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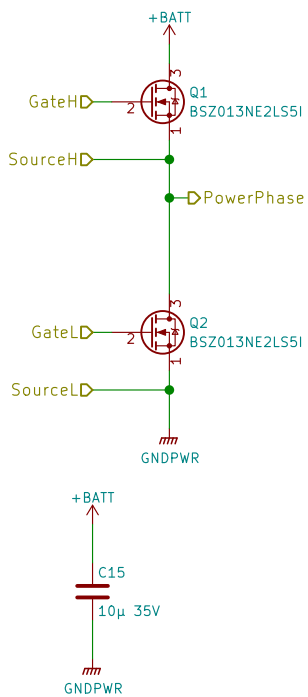
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KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu18.04.1

Rev:

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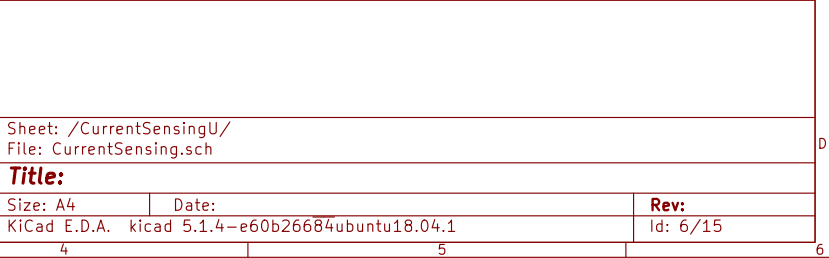


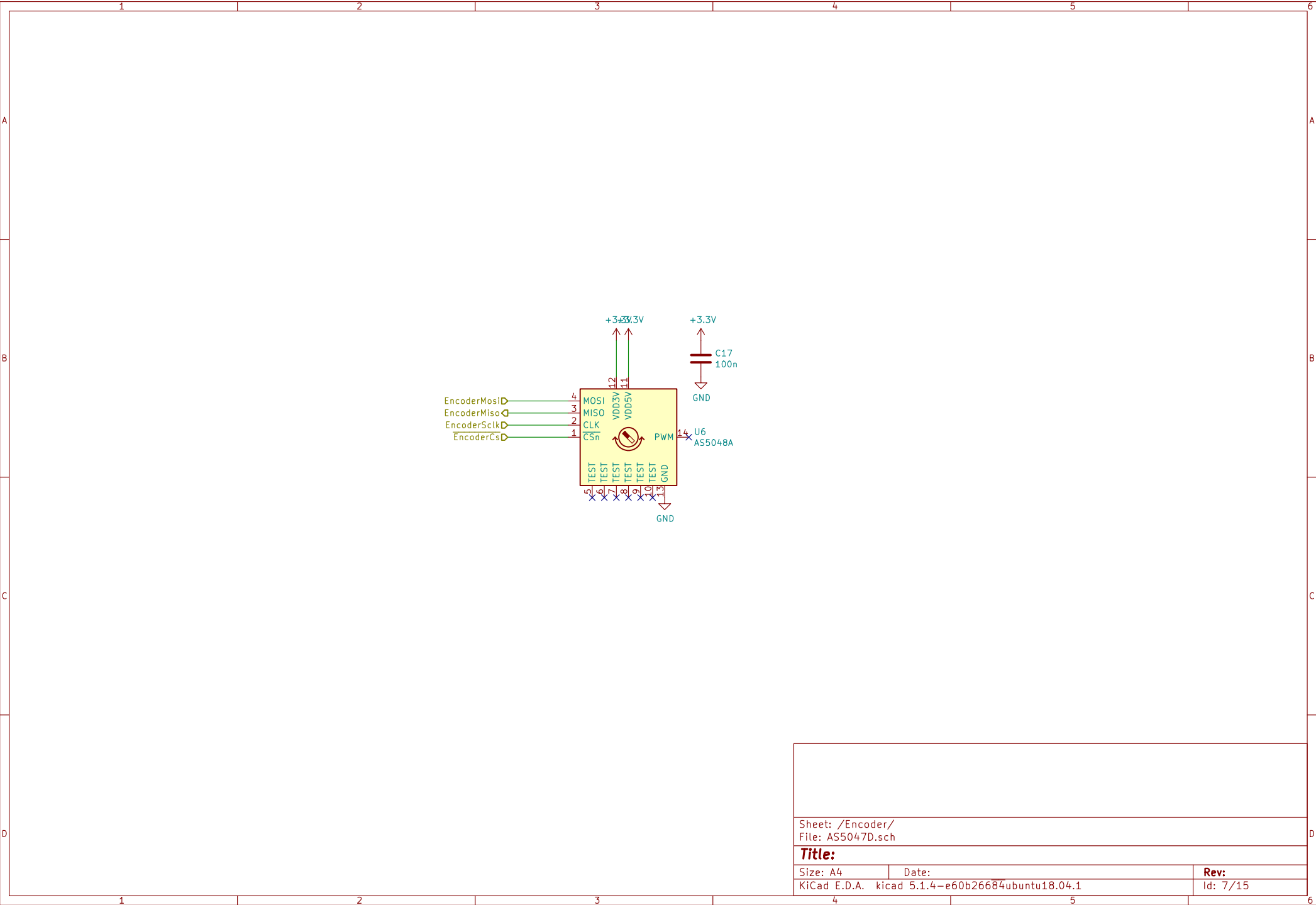
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**Title:**

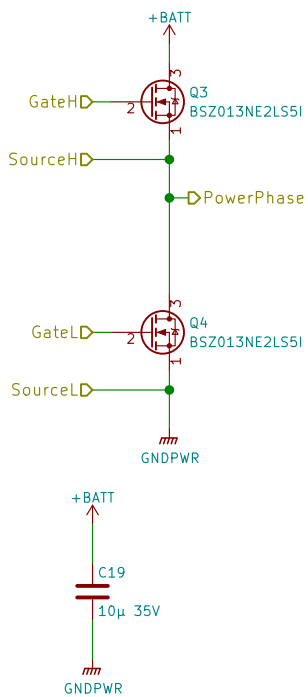
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Sheet: /Encoder/ File: AS5047D.sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu18.04.1		Id: 7/15



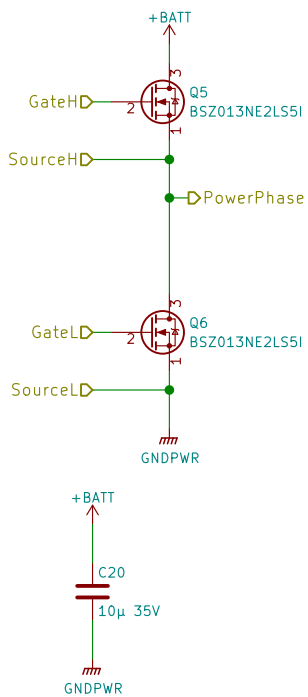
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File: HalfBridge.sch

**Title:**

Size: A4	Date:
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<b>Rev:</b>
Id: 8/15





Sheet: /HalfBridgeW/  
File: HalfBridge.sch

**Title:**

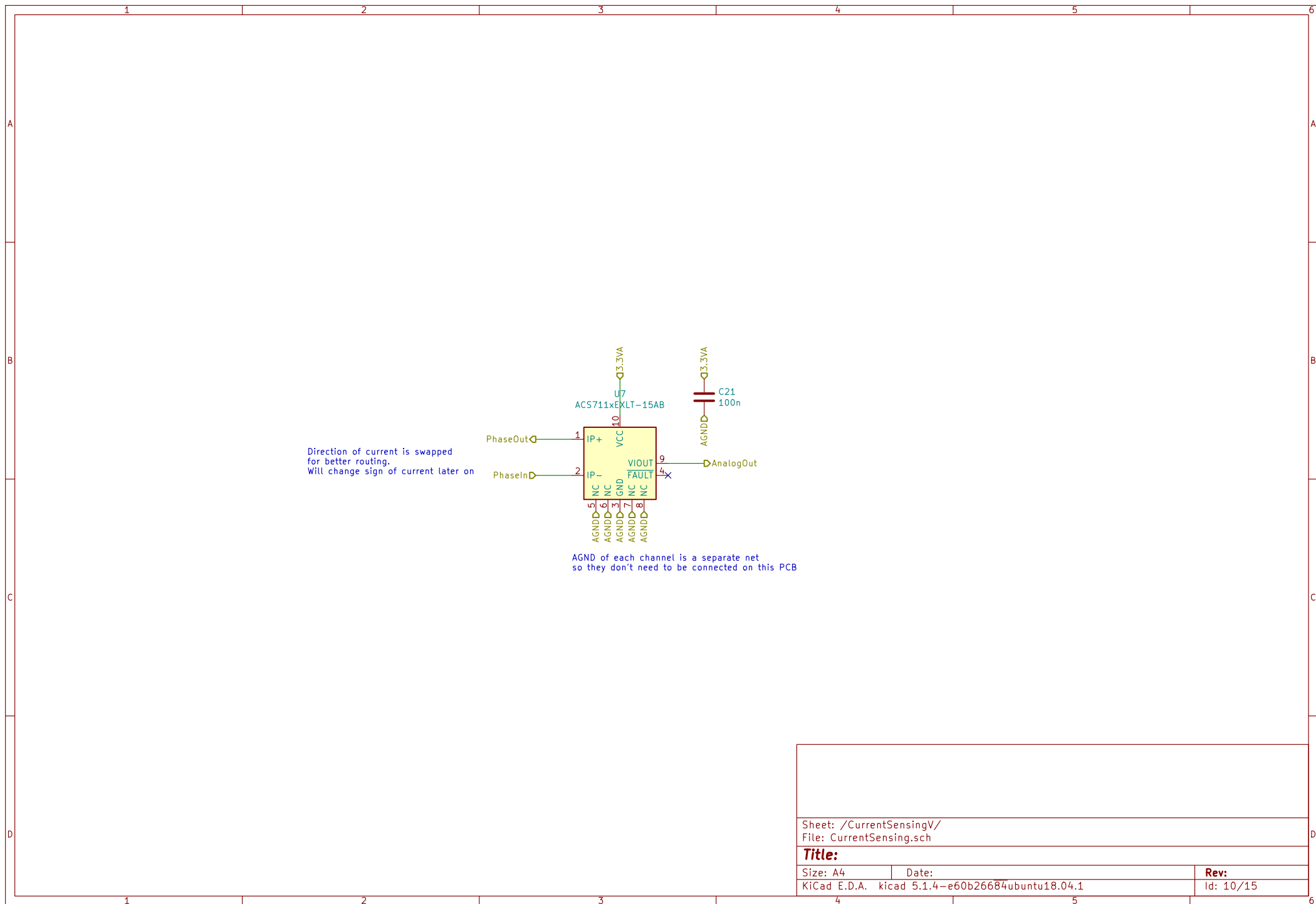
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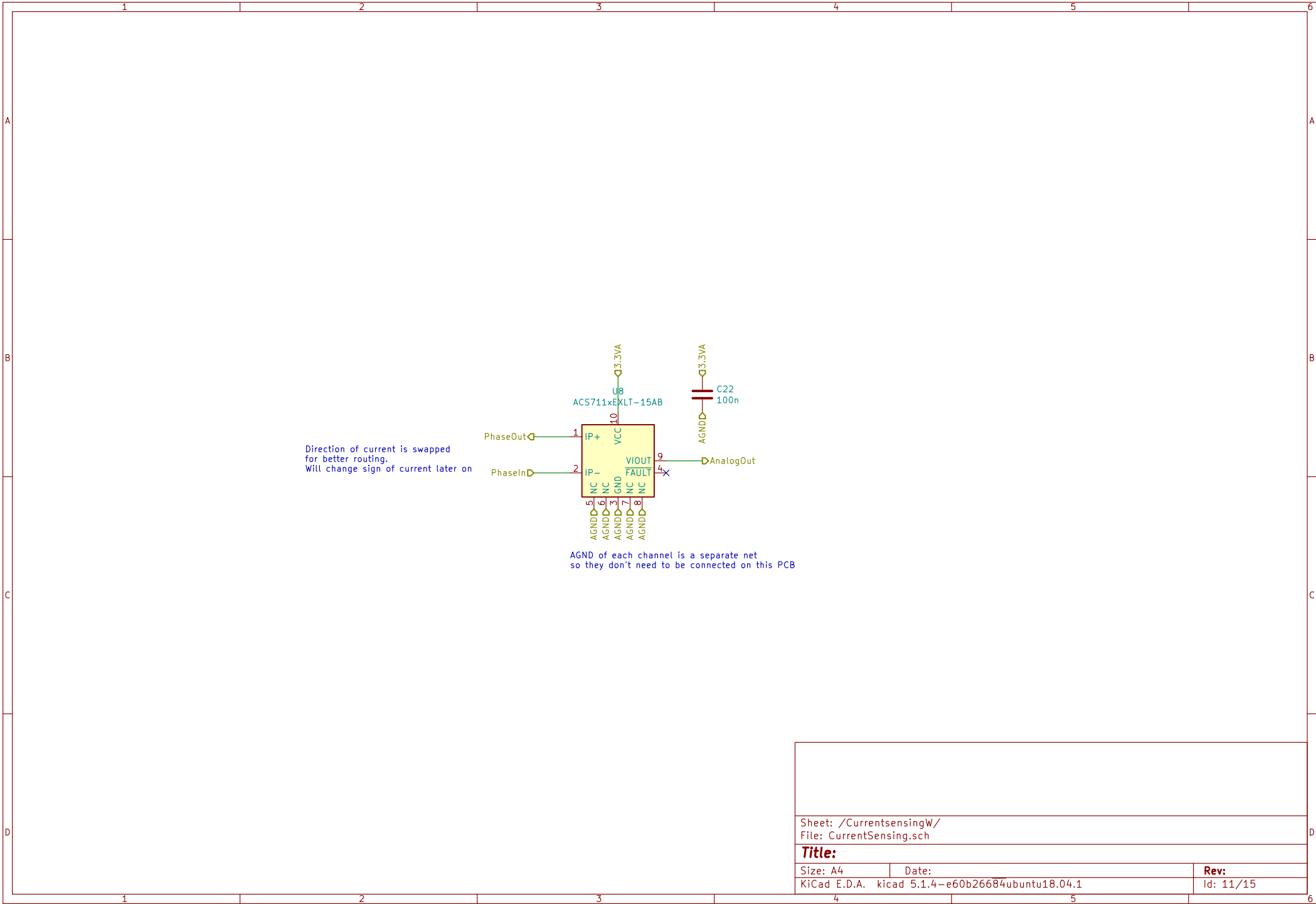
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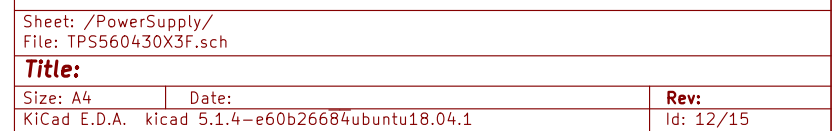
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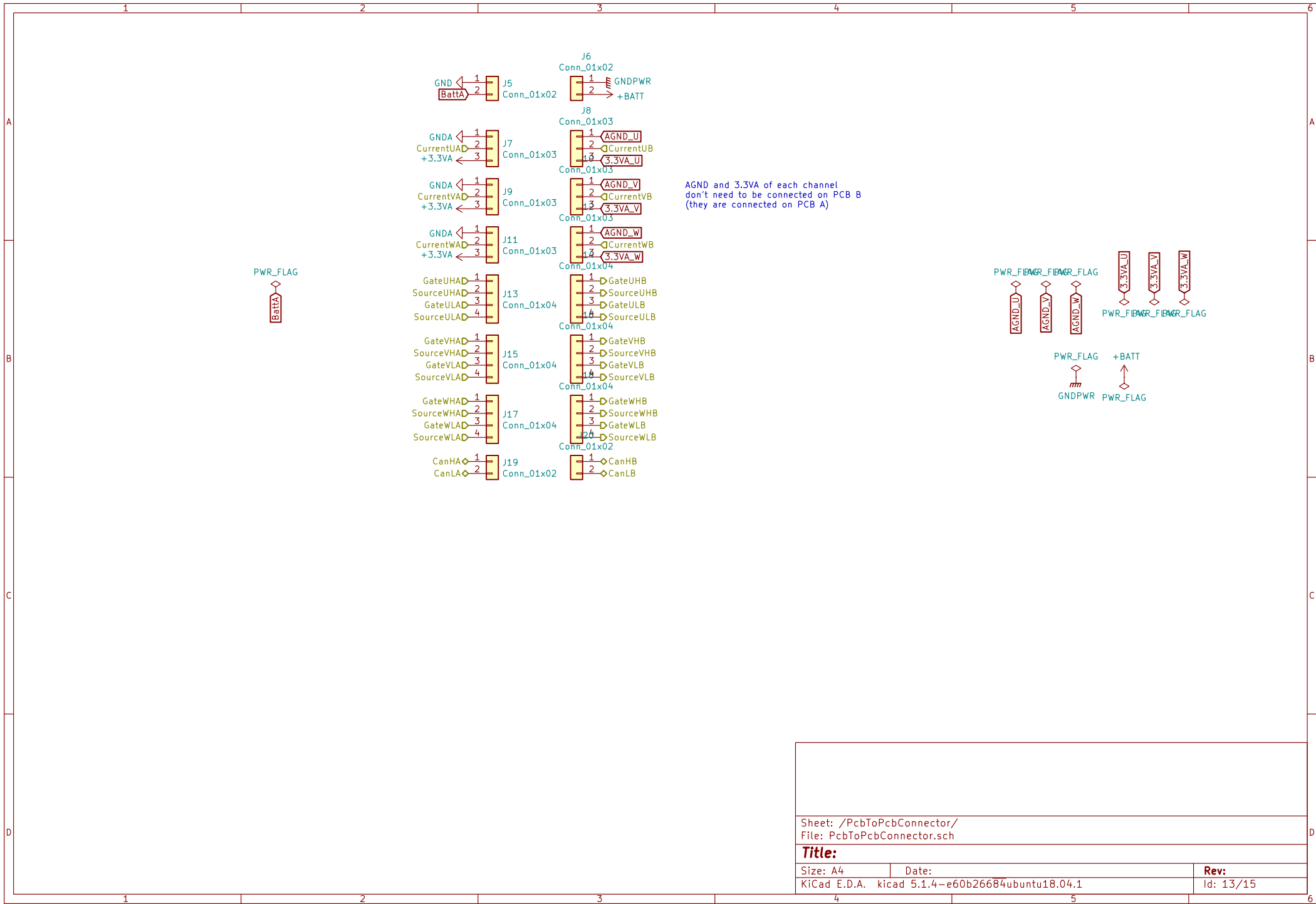
Rev:

Id: 9/15









Sheet: /PcbToPcbConnector/ File: PcbToPcbConnector.sch		
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