

IPROPI is  $450\mu\text{A/A}$ .  
With 6A peak output this is 2.7mA.  
With  $R=1\text{k}$  we get 2.7V for the 6A.

On VREF, we have 3.3V divided by 560 ohms and 2k7, this results in 2.73V.

This means, the current limitation will jump in when the output current is above 6A.

The bulk capacitor is especially important when switching high currents, see DRV8874 data sheet.

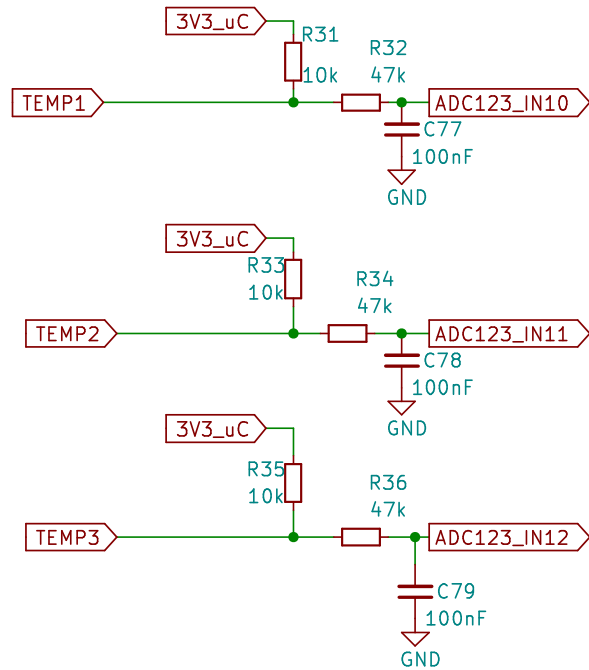
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File: outputdrivers.kicad\_sch

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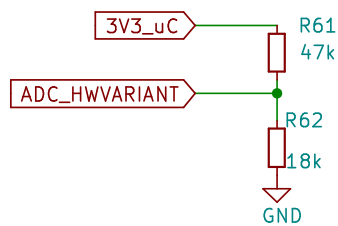
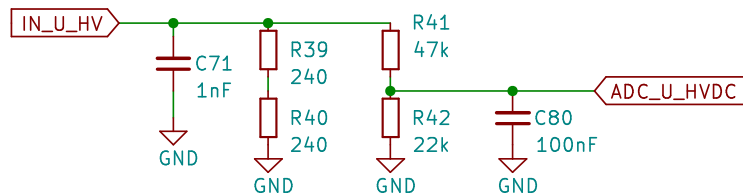
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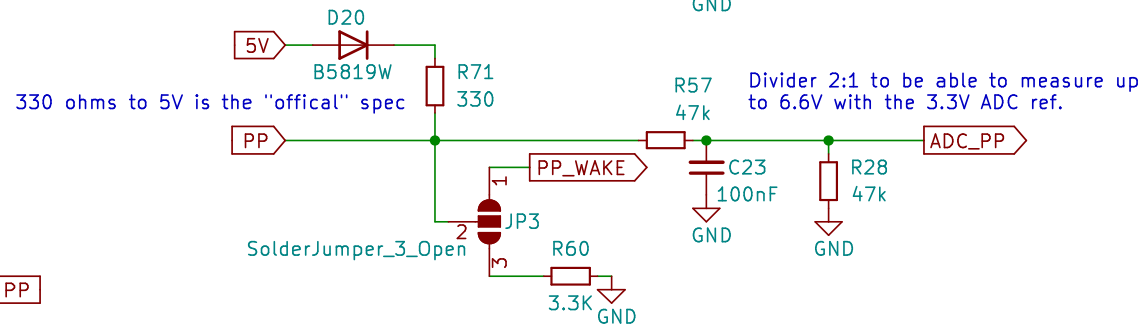
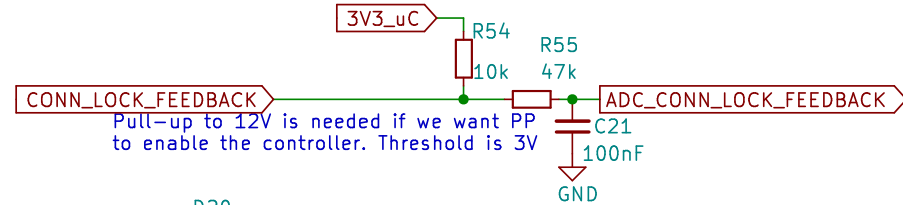
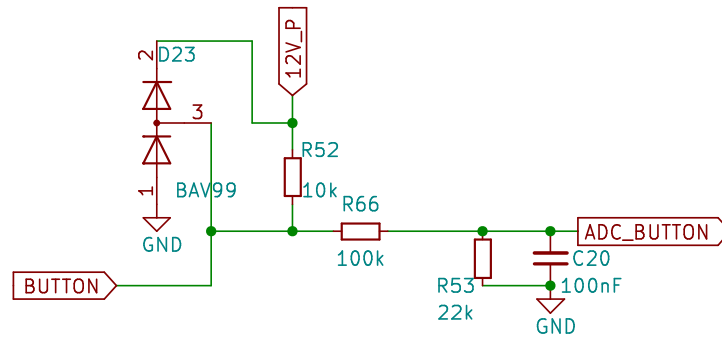
Analog inputs, e.g. for use with NTCs to ground  
for temperature measurement  
or analog feedback contacts or switches.



Current input for HV DC voltage  
measurement as done in LIM, see  
<https://openinverter.org/forum/viewtopic.php?p=58839#p58839>



Hardware variant detection: R62 can be increased with each hardware version  
Table here: [https://openinverter.org/wiki/Fully\\_Open\\_CCS\\_Charge\\_Controller\\_\(FOCCCI\)](https://openinverter.org/wiki/Fully_Open_CCS_Charge_Controller_(FOCCCI))  
10k: Foccci 4.2  
12k: Foccci 4.3  
15k: Foccci 4.4  
18k: Foccci 4.5



PlugPresent:  
- 1k5 to ground for CCS2  
- 100 ohm to 1k5 for AC (current limit of the cable)  
- 150 ohm (button idle) or 480 ohm (button pressed) for CCS1

Some inlets may contain 2k7 or 3k0 to ground. The optional R60 can be  
used if no external pull down is present.  
Discussion here: <https://openinverter.org/forum/viewtopic.php?p=66305#p66305>

Wakeup via PP only works without any pull-down resistor

Sheet: /inputs/  
File: Inputs.kicad\_sch

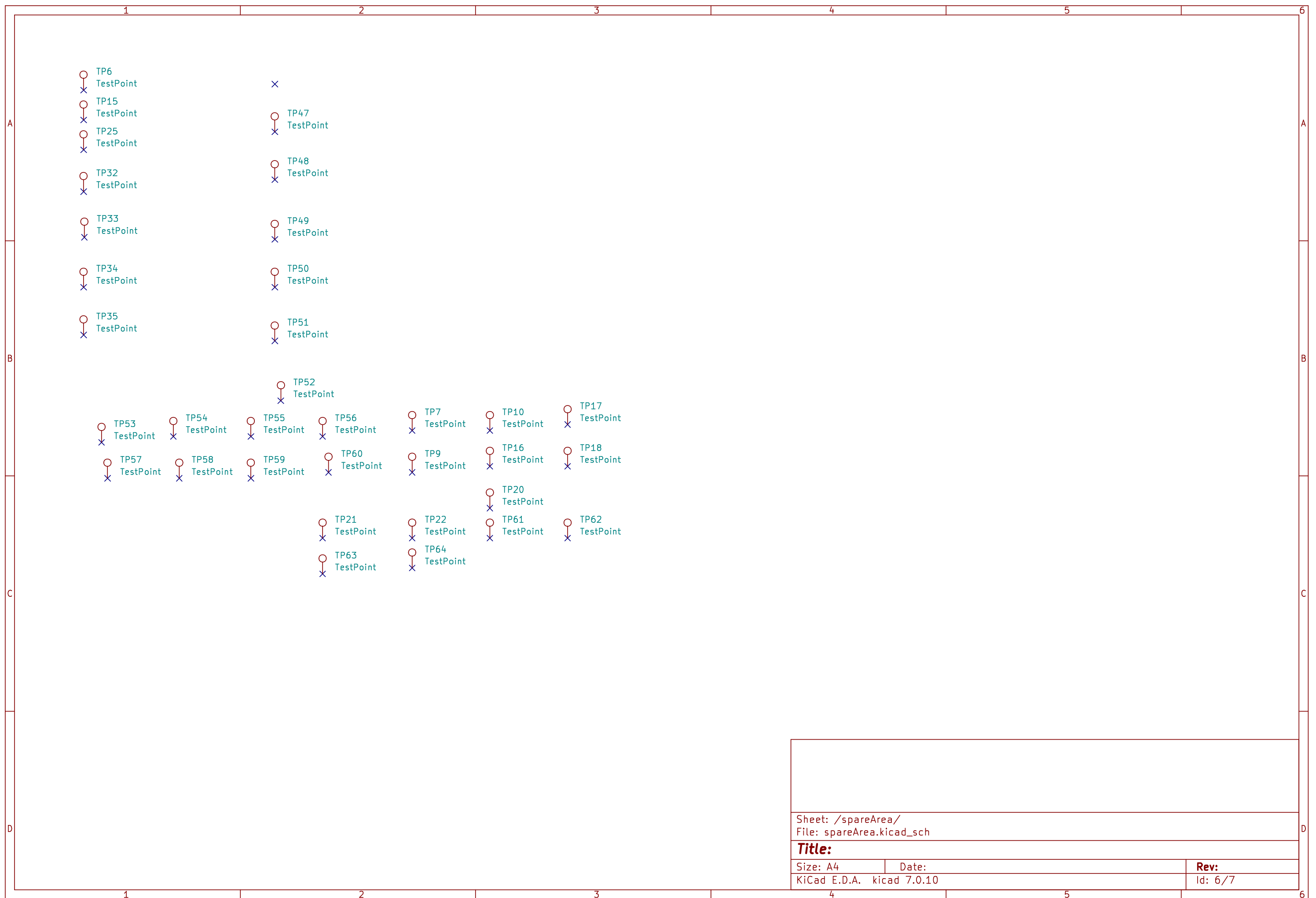
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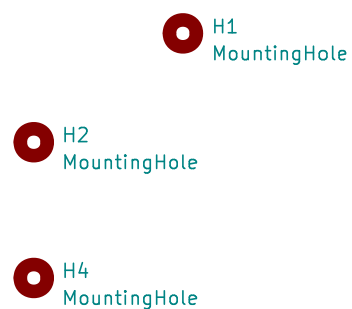
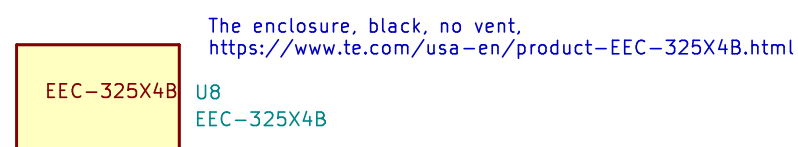
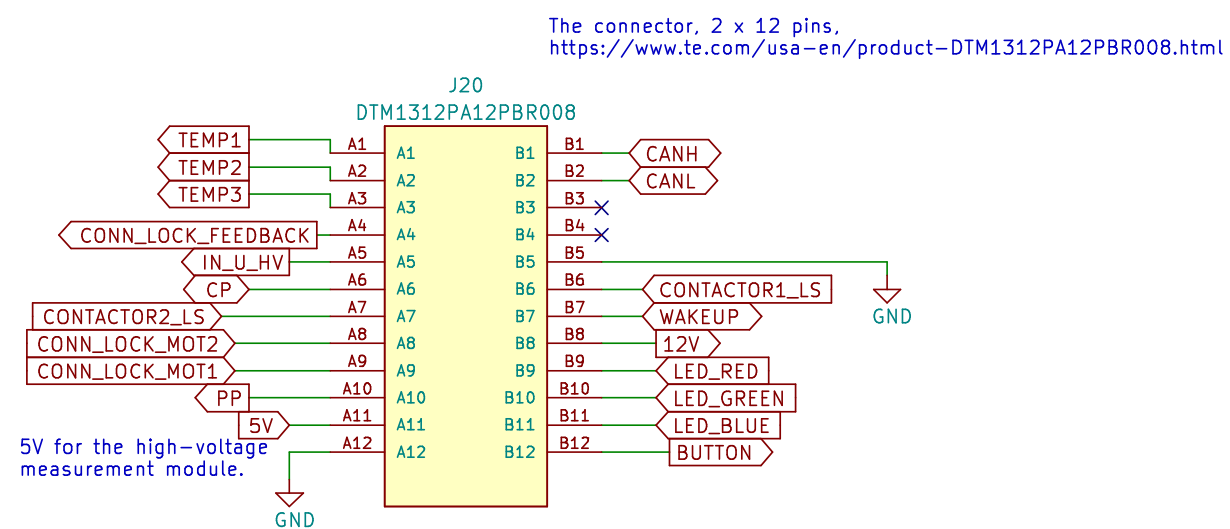
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Sheet: /Connectors/ File: connectors.kicad_sch		
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