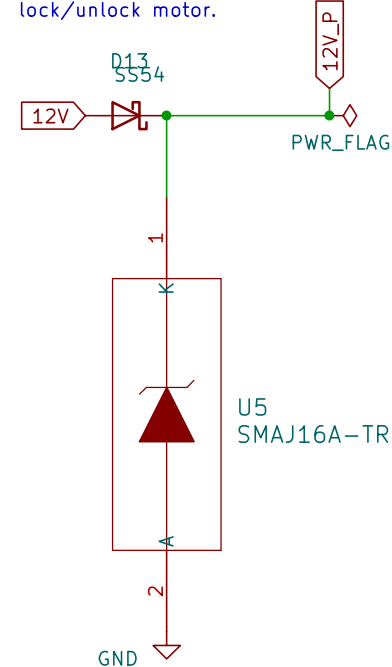
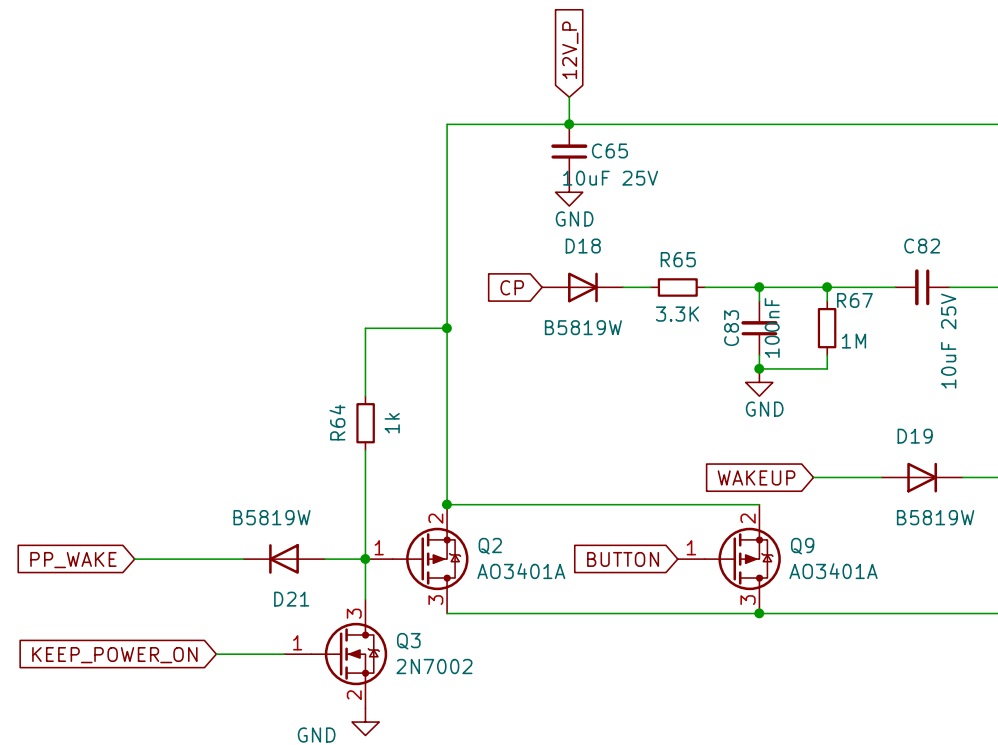


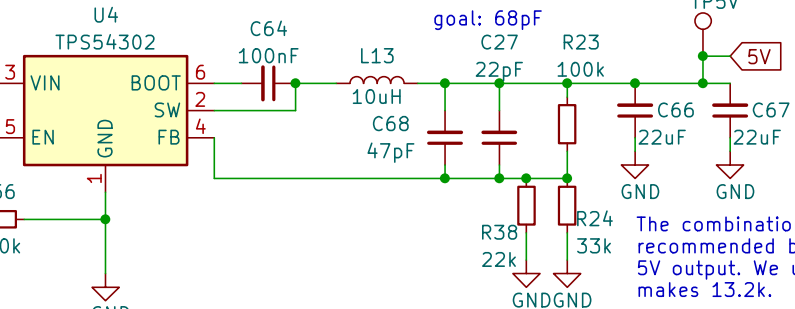
SS54B is rated for 5A.
This is at the border,
if we drive 6A in the
lock/unlock motor.



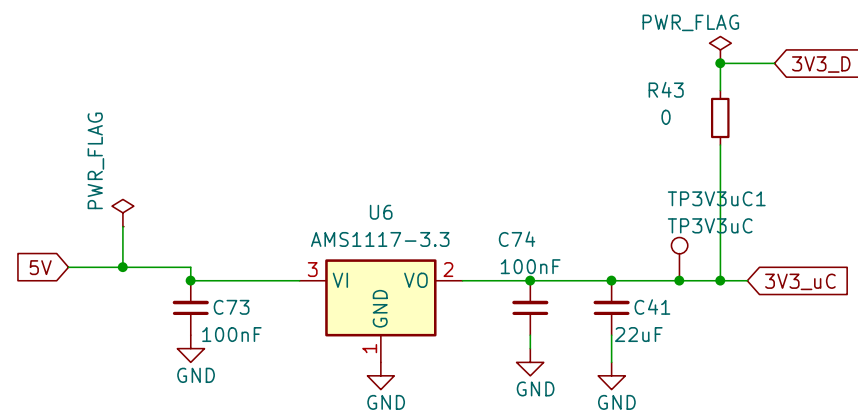
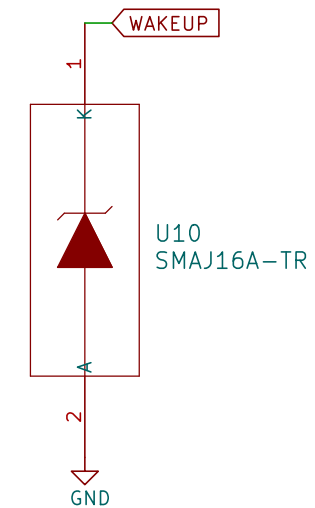
C82 changes the continuous high level of the filtered CP signal to a one-shot pulse when the cable is plugged in.
We can therefore choose to shut down the controller even with the cable still plugged in e.g. when no charge power available on solar powered systems



Option 3 of the power supply
(Catphish's stepdown, 3A, 400kHz)



The combination 100k and 13.3k is recommended by the data sheet for 5V output. We use 22k || 33k, this makes 13.2k.



Sheet: /powersupply/
File: powersupply.kicad_sch

Title: Power Supply

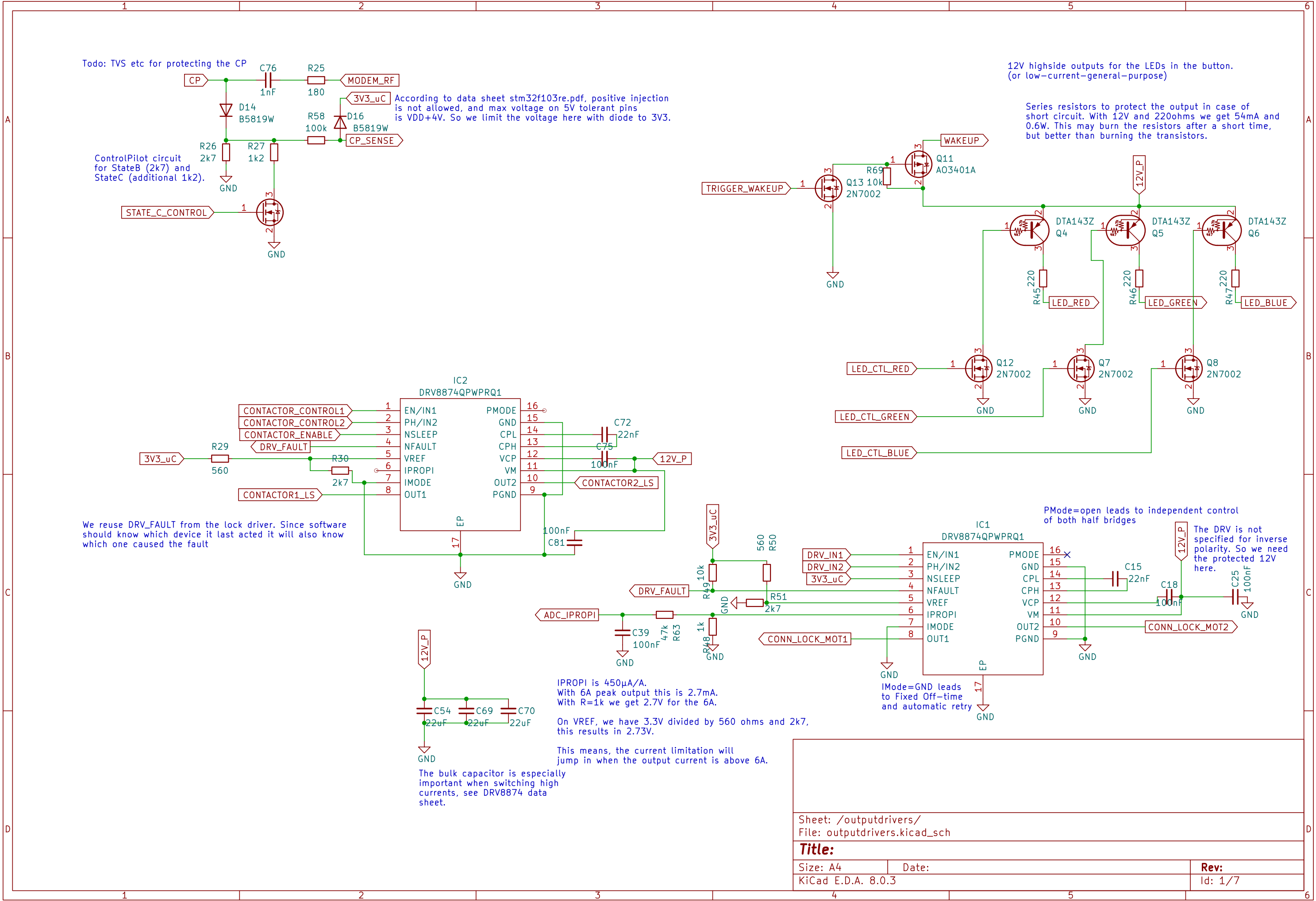
Size: A4

Date:

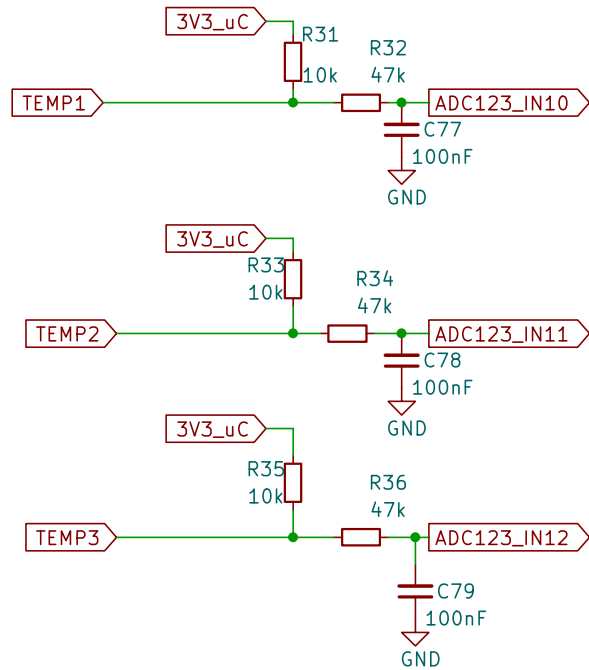
Rev:

KiCad E.D.A. 8.0.3

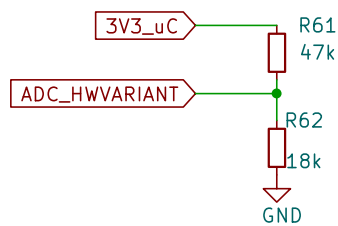
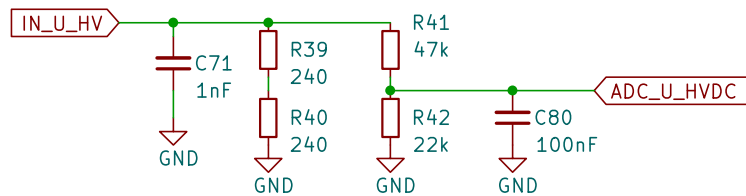
Id: 1/7



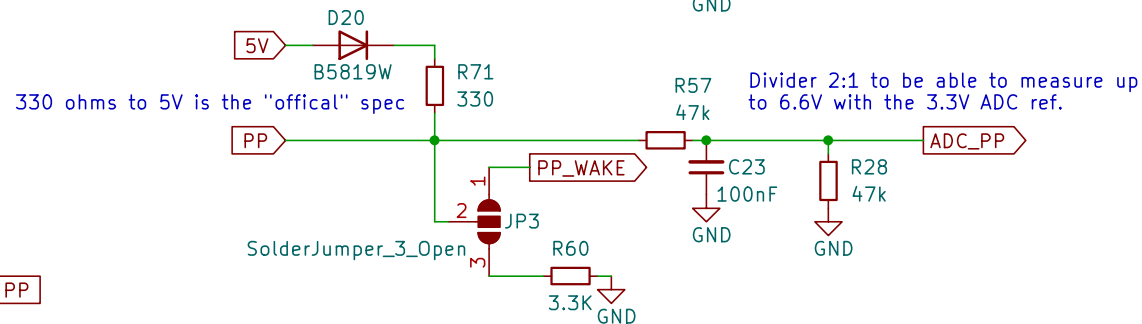
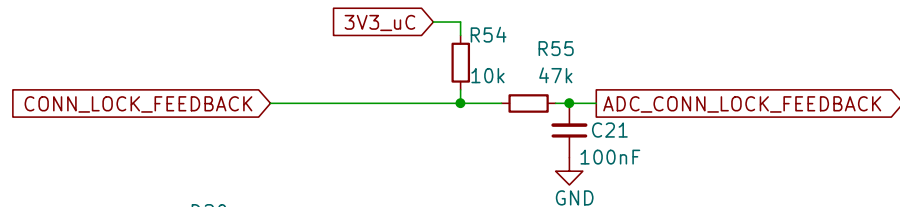
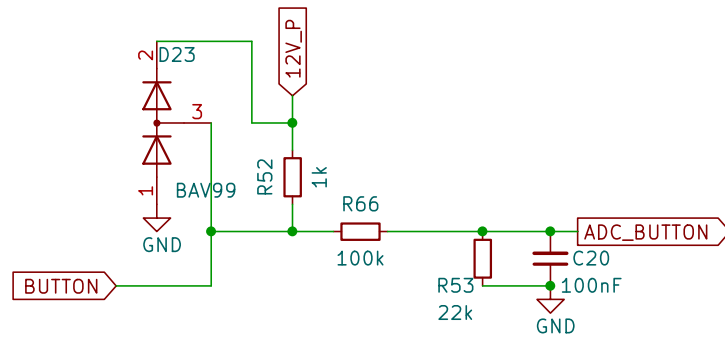
Analog inputs, e.g. for use with NTCs to ground
for temperature measurement
or analog feedback contacts or switches.



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, 4.5b and 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

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 1/7

