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File: MCU.kicad\_sch

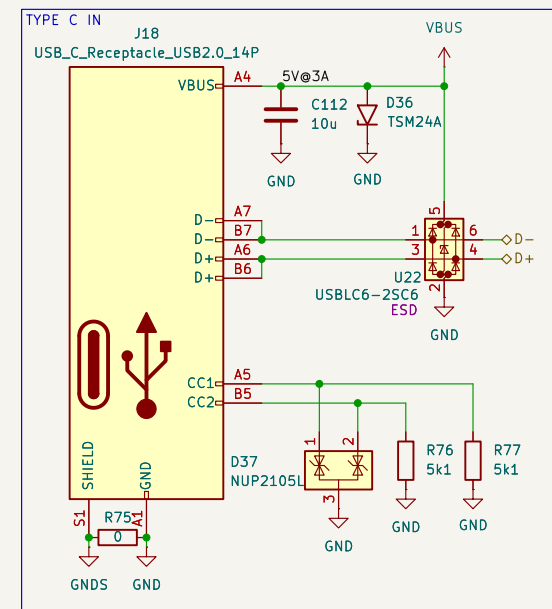
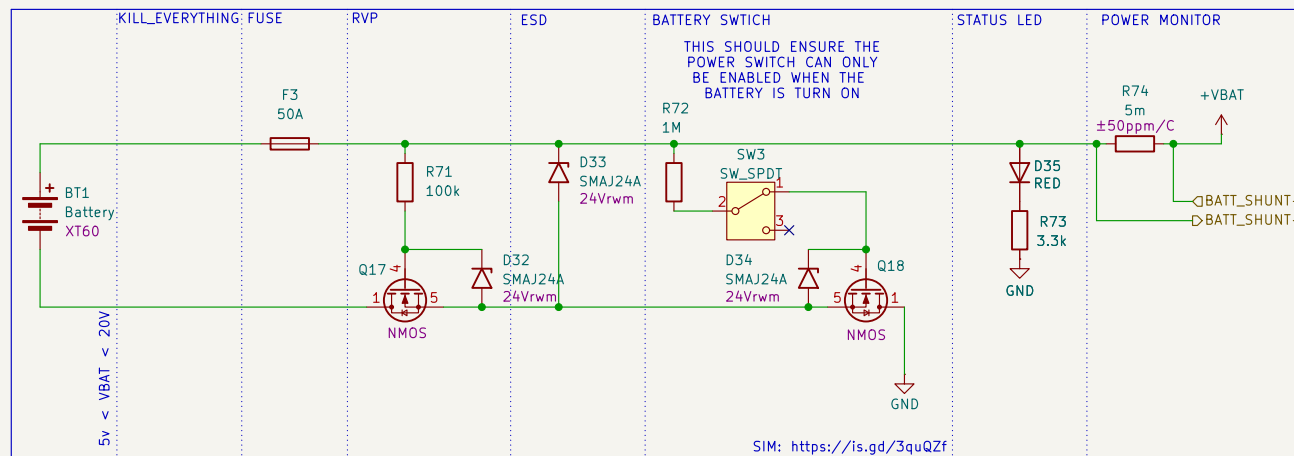
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KiCad E.D.A. 10.0.0

Date:

**Rev:**  
Id: 3/10





Sheet: /PWR/POWER\_CONNECTORS/  
File: POWER\_CONNECTORS.kicad\_sc.kicad\_sch

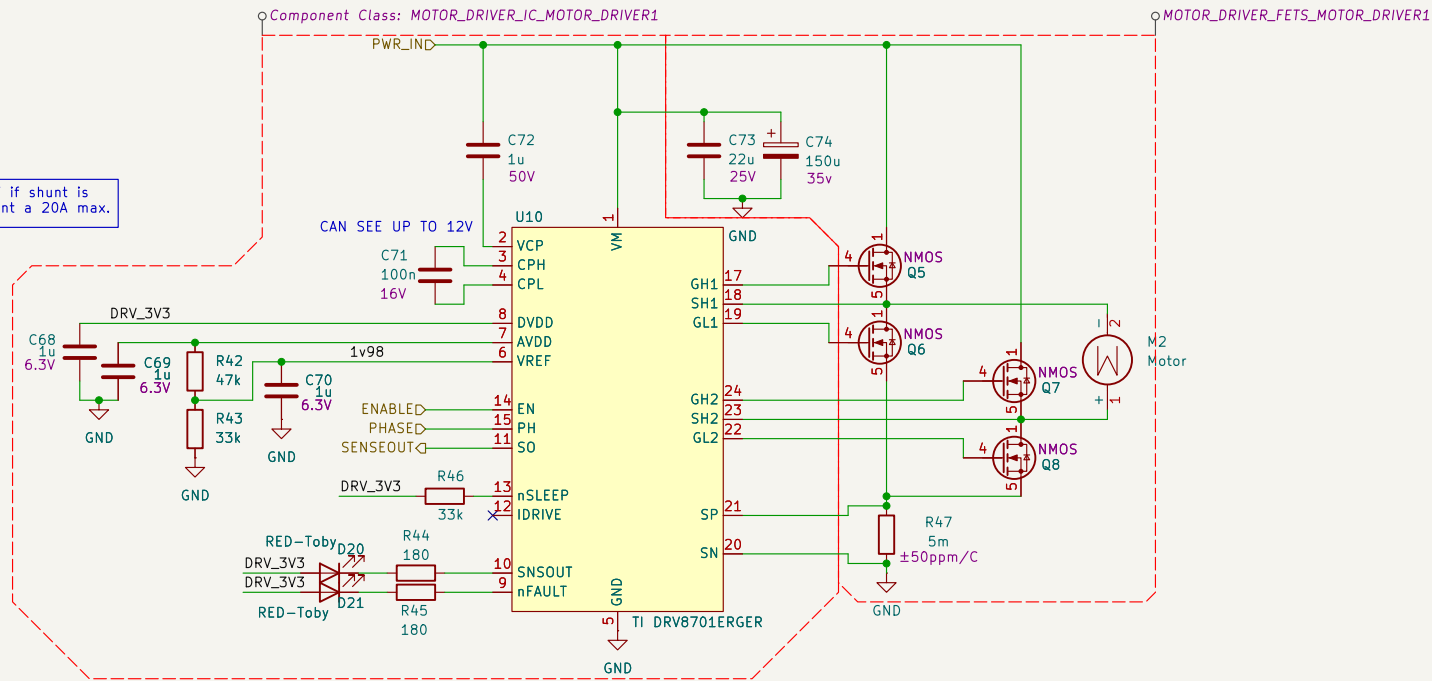
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Size: A4  
KiCad E.D.A. 10.0.0

Date:

Rev:  
Id: 10/10

VREF should be 2V if shunt is 5mOhm and we want a 20A max.



IDrive dictates the current to the gate of mosfet. NC means 150ma source and 300ma sink.

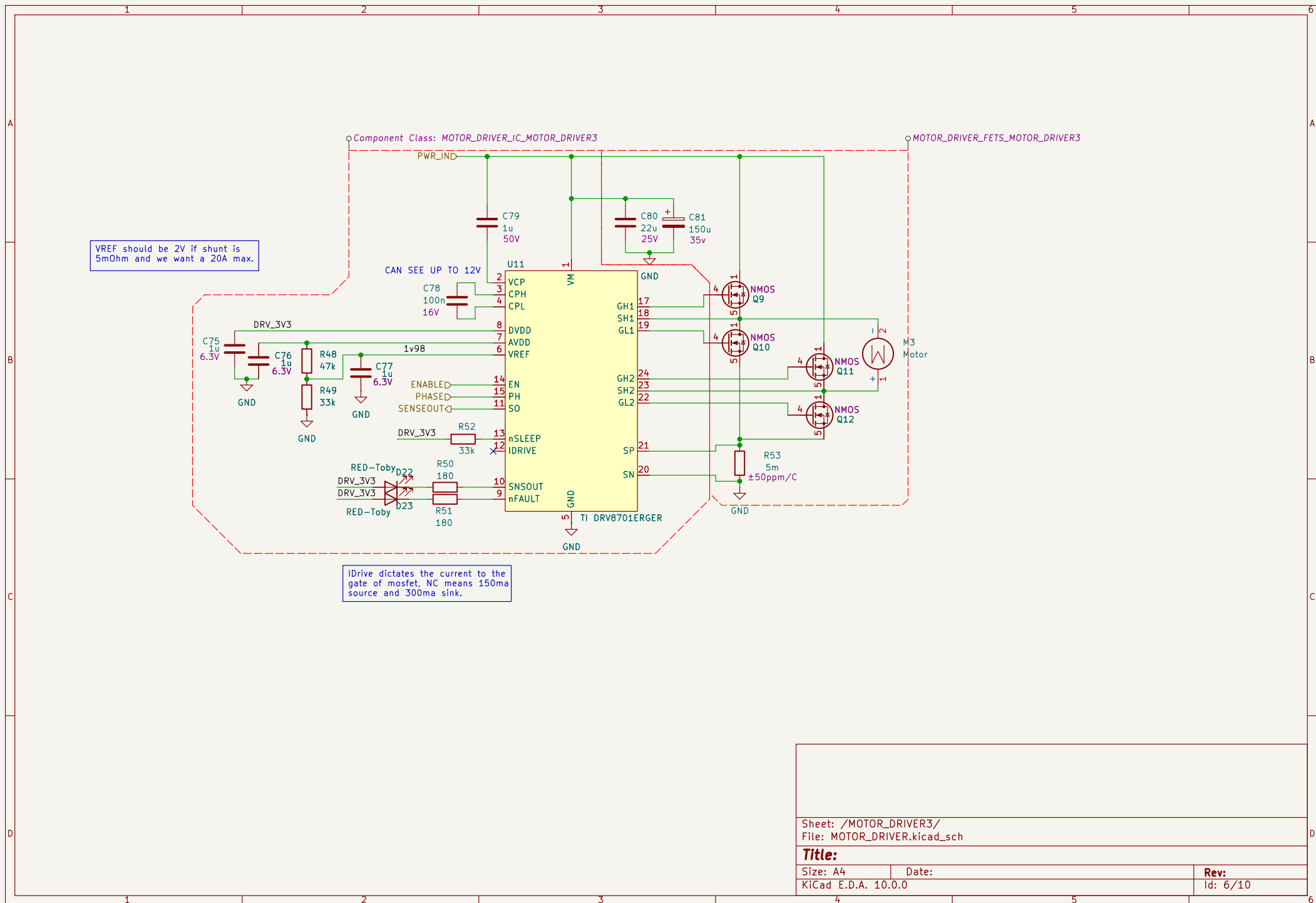
Sheet: /MOTOR\_DRIVER1/  
File: MOTOR\_DRIVER.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. 10.0.0

Date:

**Rev:**  
Id: 5/10



Sheet: /MOTOR\_DRIVER3/  
File: MOTOR\_DRIVER.kicad\_sch

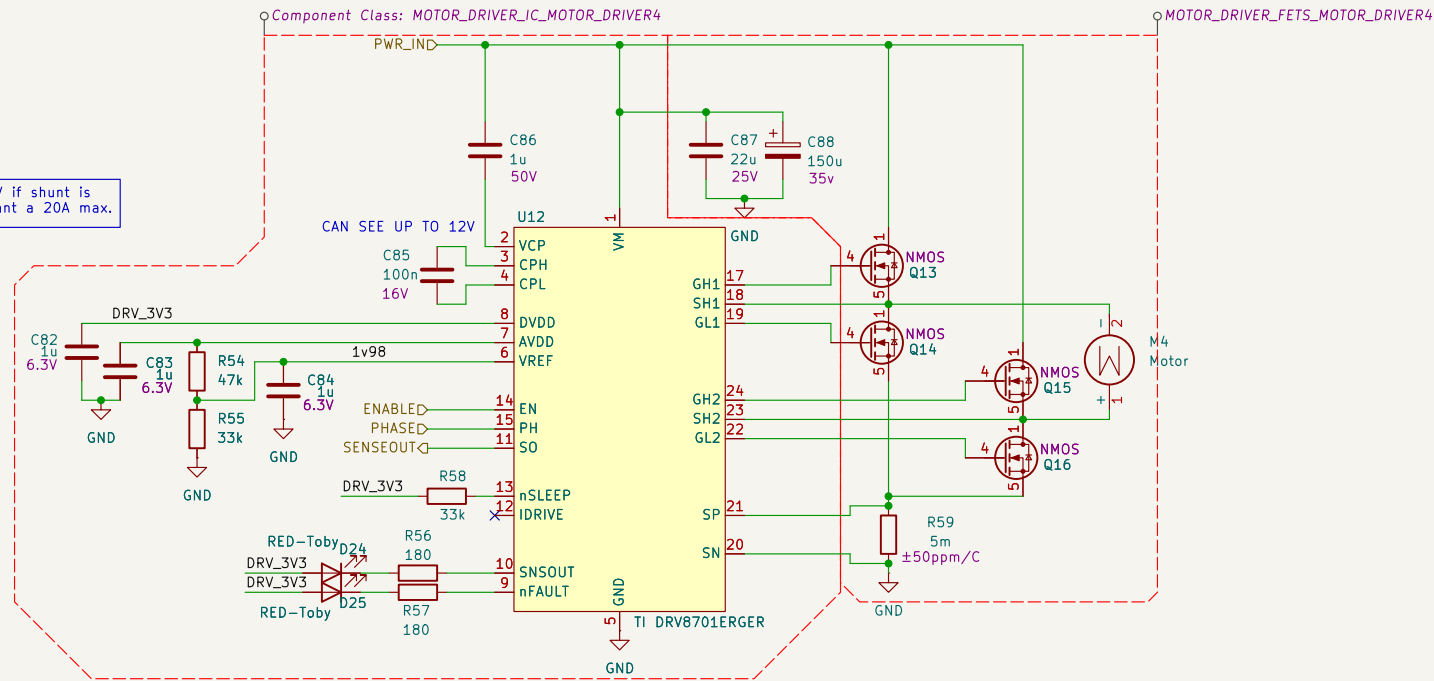
**Title:**

Size: A4  
KiCad E.D.A. 10.0.0

Date:

**Rev:**  
Id: 6/10

VREF should be 2V if shunt is 5mOhm and we want a 20A max.



IDrive dictates the current to the gate of mosfet. NC means 150ma source and 300ma sink.

Sheet: /MOTOR\_DRIVER4/  
File: MOTOR\_DRIVER.kicad\_sch

**Title:**

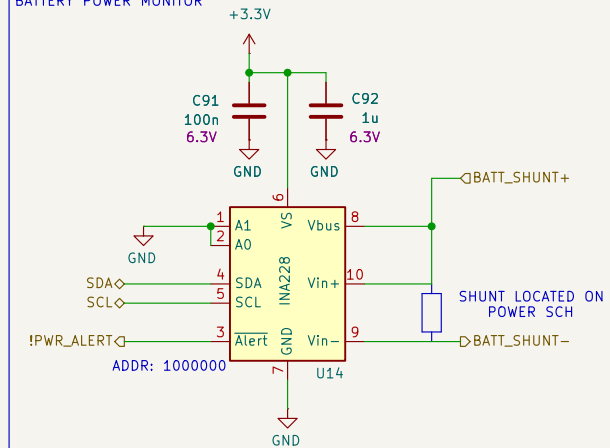
Size: A4  
KiCad E.D.A. 10.0.0

Date:

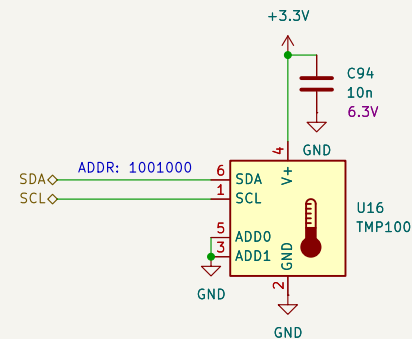
**Rev:**  
Id: 7/10



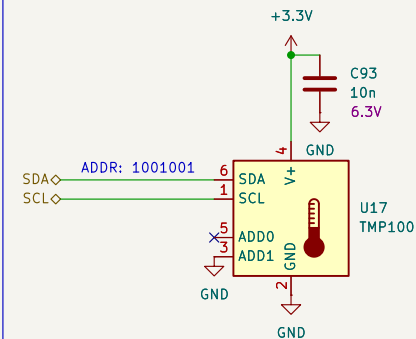
# BATTERY POWER MONITOR



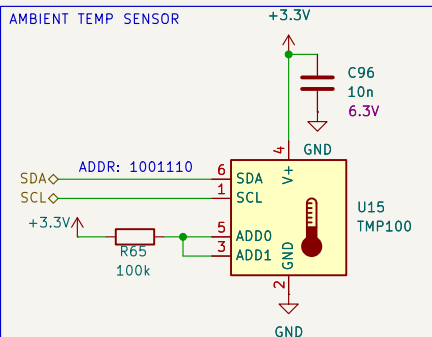
# MOTOR DRIVER MOSFET TEMP MEASUREMENT SENSOR



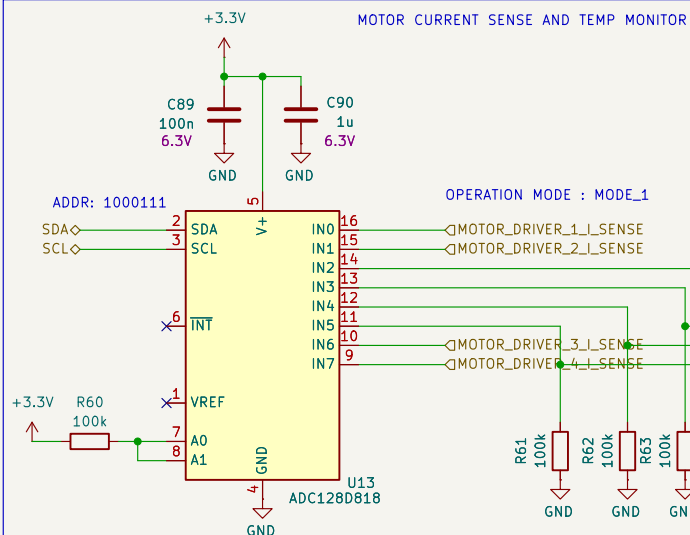
# POWER MUX TEMP SENSOR



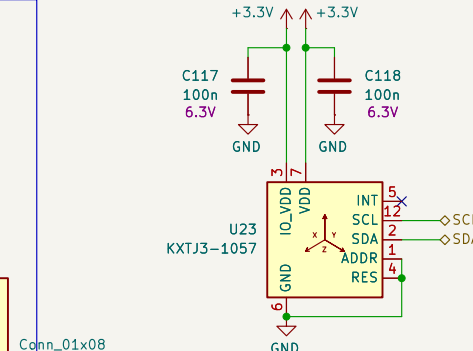
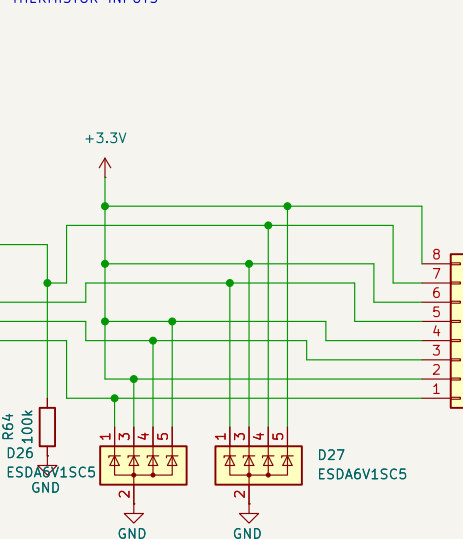
# AMBIENT TEMP SENSOR



# MOTOR CURRENT SENSE AND TEMP MONITOR



# THERMISTOR INPUTS



Conn\_01x08  
J8

points to measure temp:  
software controlled power switch  
power mux  
motor drivers

Sheet: /BOARD\_STAT\_MESUREMENT/  
File: BOARD\_STAT\_MESUREMENT.kicad\_sch

Title:

Size: A4

Date:

KiCad E.D.A. 10.0.0

Rev:

Id: 8/10

