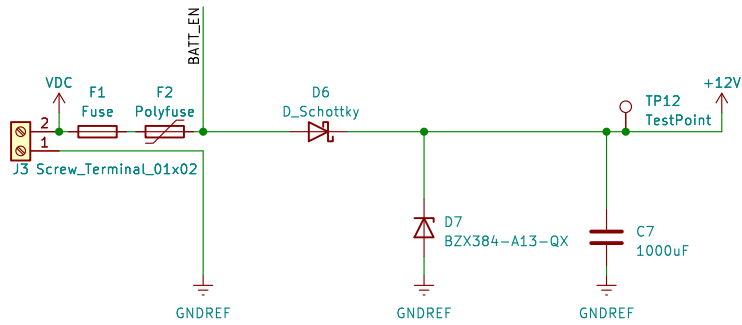
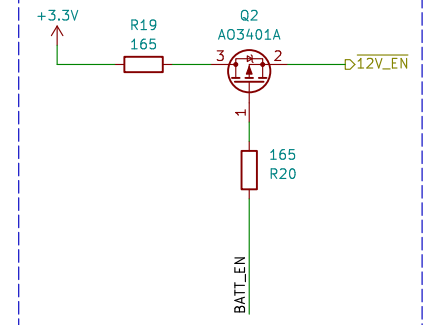
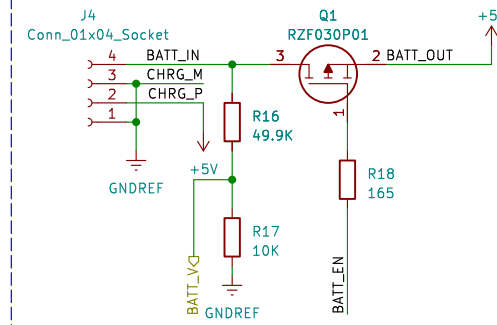


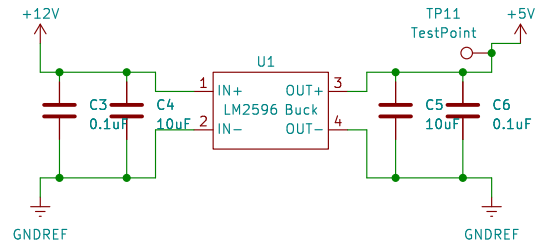
12v input and protection



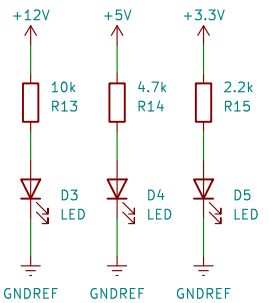
P mosfet engages when 12v power is removed.
This enables the backup battery



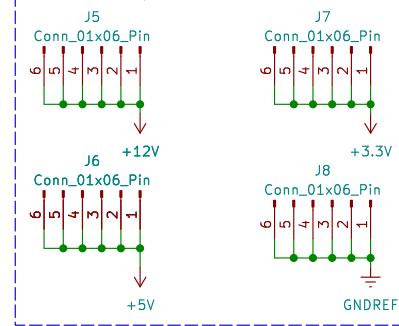
12 to 5v 3A LM2596 buck module for KL25z and other peripherals



Power indicator LEDs



Power Breakout pins



Author: Emiel Visser

OnlyPlants

Sheet: /Power/

File: Power.kicad_sch

Title: Greenhouse project FRDM-KL25Z hat

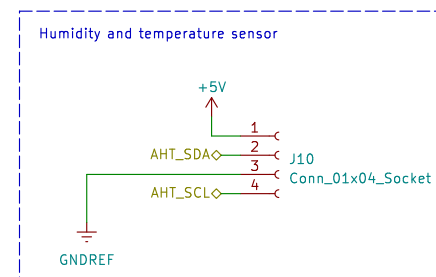
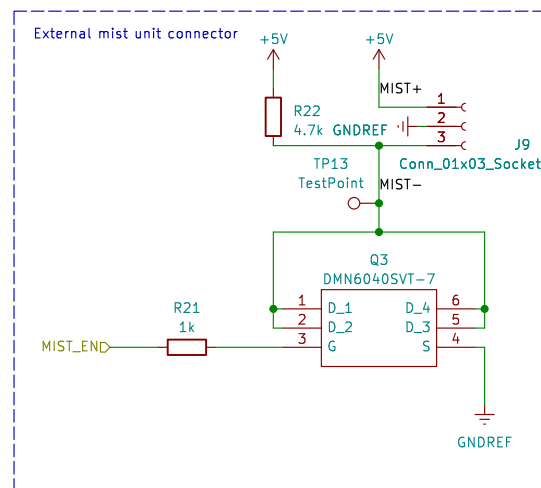
Size: A4

Date: 16-03-2023

Rev: v4.0

KiCad E.D.A. kicad (7.0.0)

Id: 2/7



Author: Emiel Visser

OnlyPlants

Sheet: /Humidifier/

File: Humidifier.kicad_sch

Title: Greenhouse project FRDM-KL25Z hat

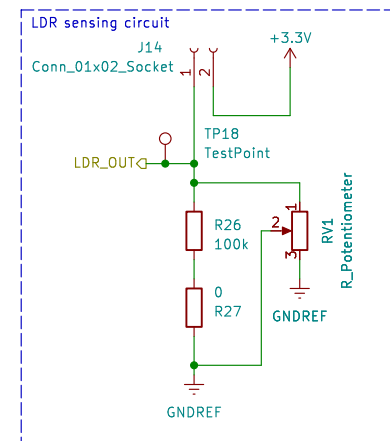
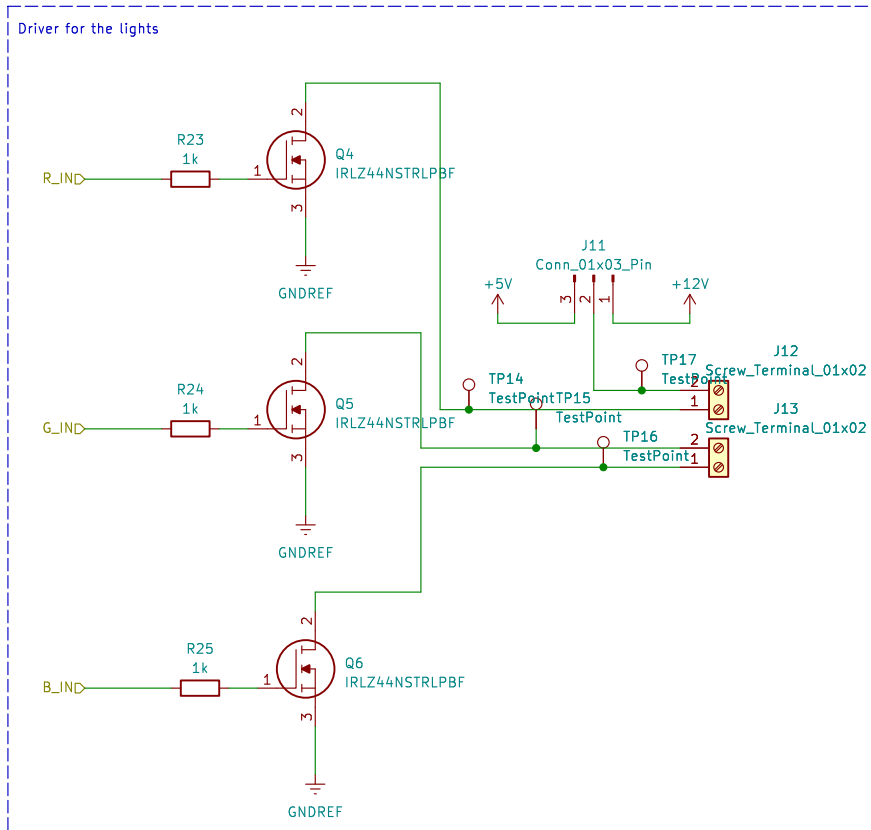
Size: A4

Date: 16-03-2023

Rev: v4.0

KiCad E.D.A. kicad (7.0.0)

Id: 3/7



Author: Emiel Visser

OnlyPlants

Sheet: /Lights/

File: Lights.kicad_sch

Title: Greenhouse project FRDM-KL25Z hat

Size: A4

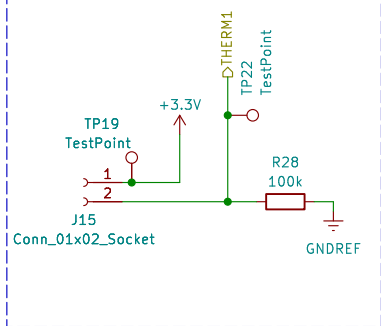
Date: 16-03-2023

Rev: v4.0

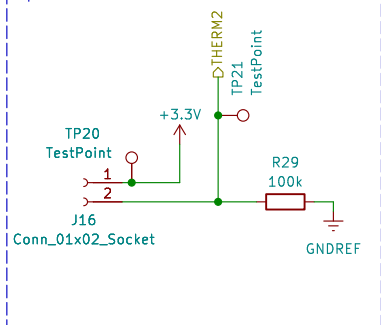
KiCad E.D.A. kicad (7.0.0)

Id: 4/7

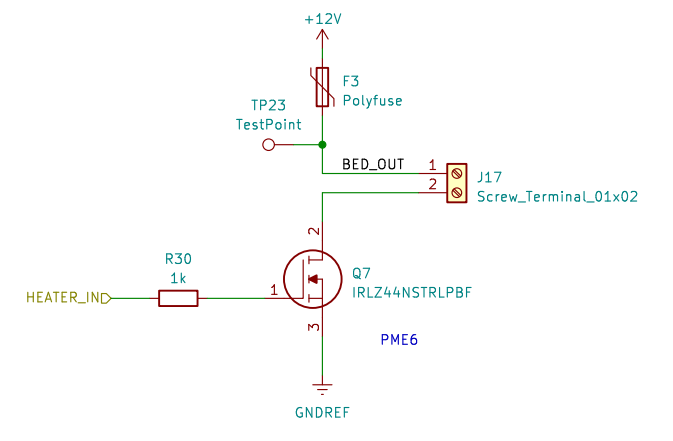
Thermistor for heater



Optional thermistor



Heatedbed circuit



Author: Emiel Visser

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Sheet: /Heating/

File: Heating.kicad_sch

Title: Greenhouse project FRDM-KL25Z hat

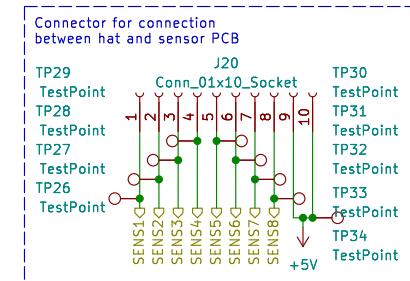
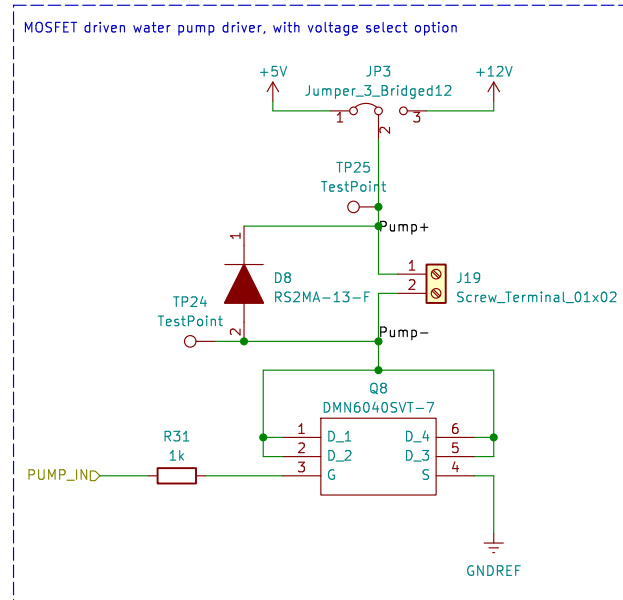
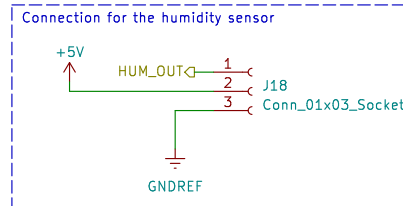
Size: A4

Date: 16-03-2023

Rev: v4.0

KiCad E.D.A. kicad (7.0.0)

Id: 5/7



Author: Emiel Visser
OnlyPlants

Sheet: /Water/
File: Water.kicad_sch

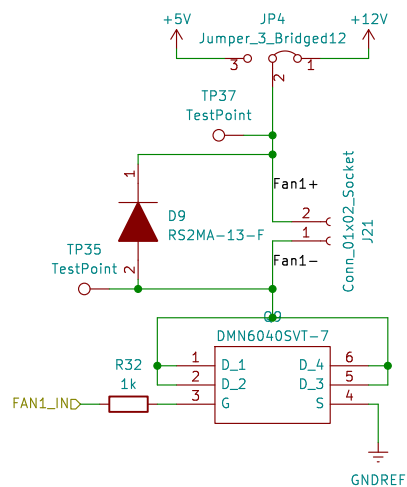
Title: Greenhouse project FRDM-KL25Z hat

Size: A4
KiCad E.D.A. kicad (7.0.0)

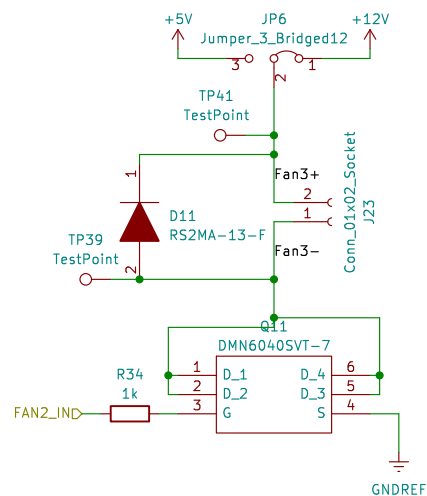
Date: 16-03-2023

Rev: v4.0
Id: 6/7

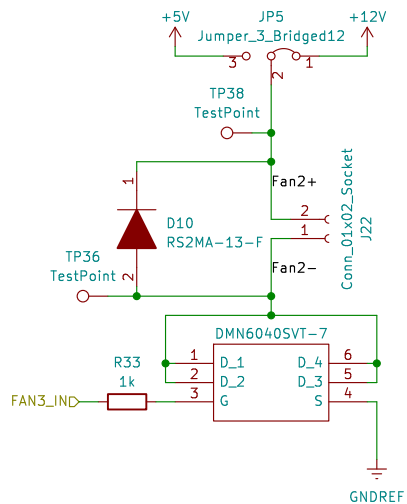
MOSFET driven fan driver, with voltage select option



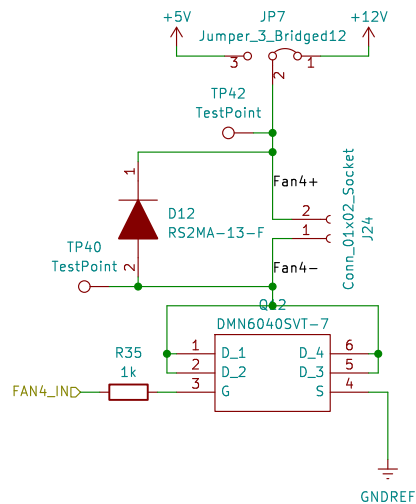
MOSFET driven fan driver, with voltage select option



MOSFET driven fan driver, with voltage select option



MOSFET driven fan driver, with voltage select option



Author: Emiel Visser

OnlyPlants

Sheet: /Fans/

File: Fans.kicad_sch

Title: Greenhouse project FRDM-KL25Z hat

Size: A4

Date: 16-03-2023

Rev: v4.0

KiCad E.D.A. kicad (7.0.0)

Id: 7/7