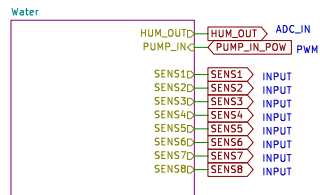
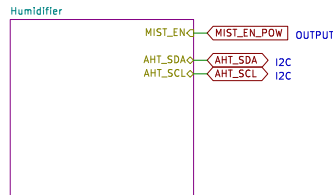


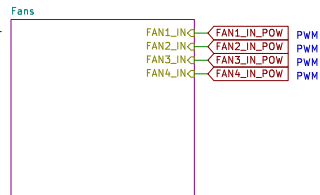
File: Power.kicad\_sch



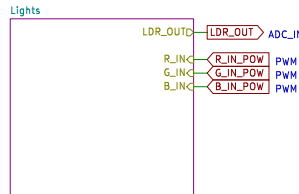
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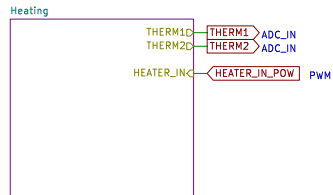
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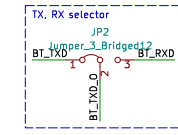
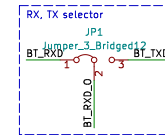
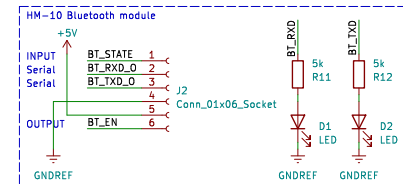
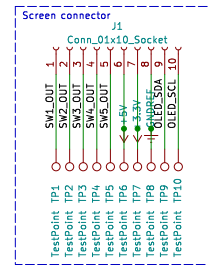
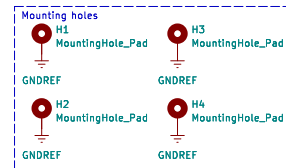
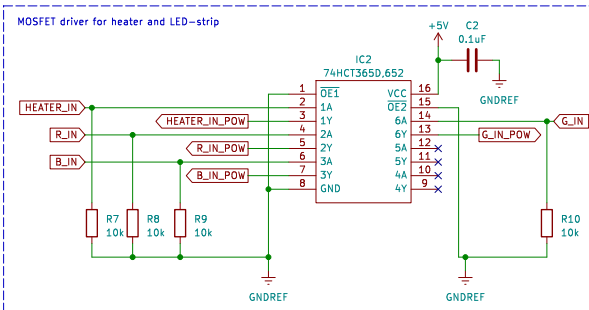
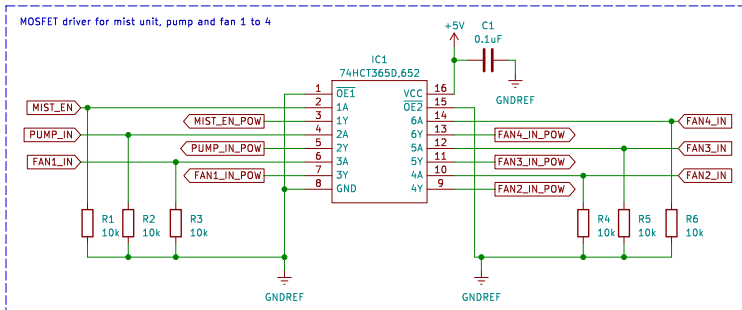
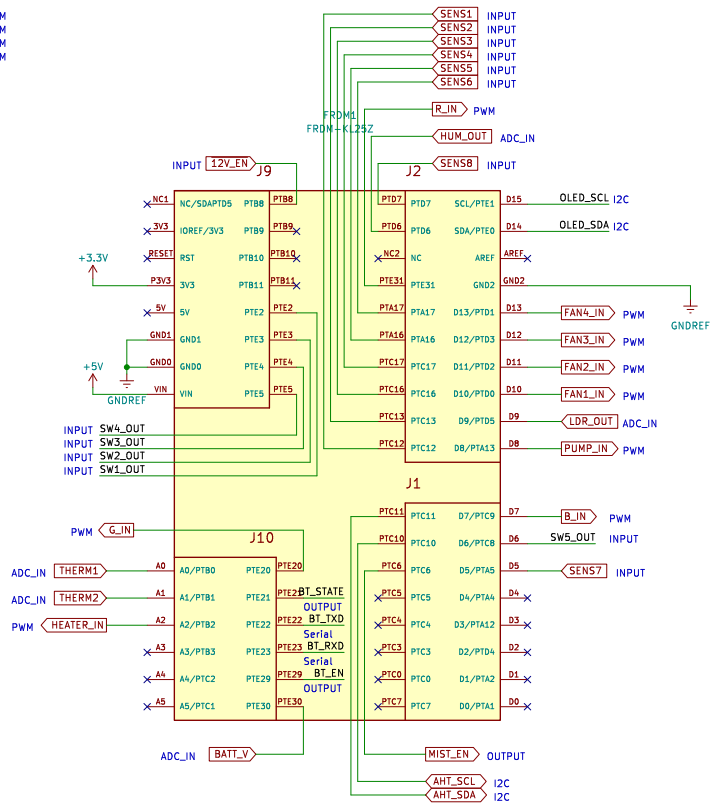
File: Fans.kicad\_sch



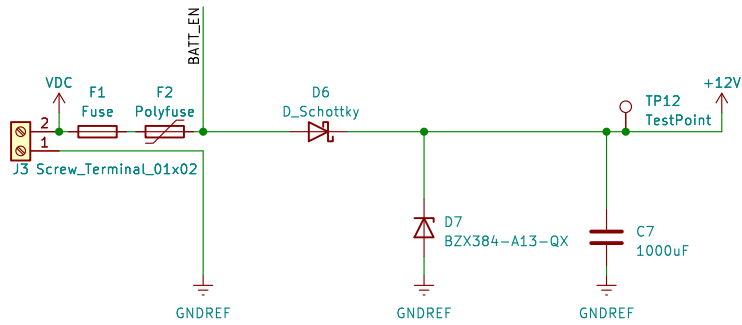
File: Lights.kicad\_sch



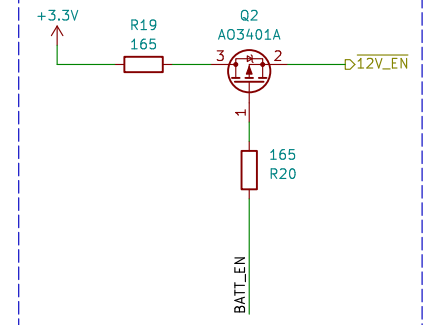
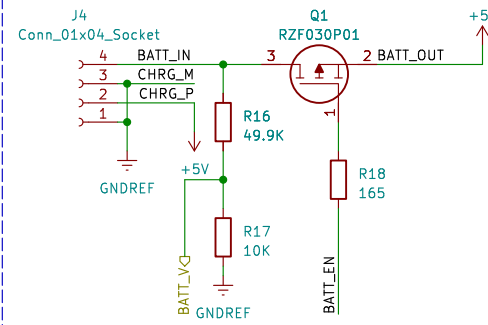
File: Heating.kicad\_sch



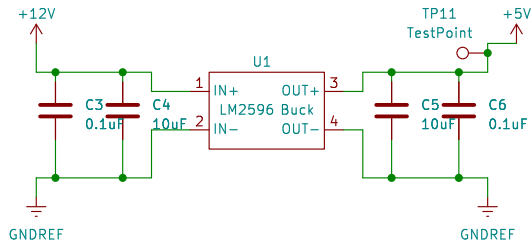
12v input and protection



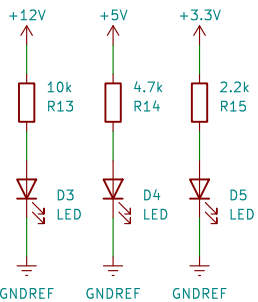
P mosfet engages when 12v power is removed.  
This enables the backup battery



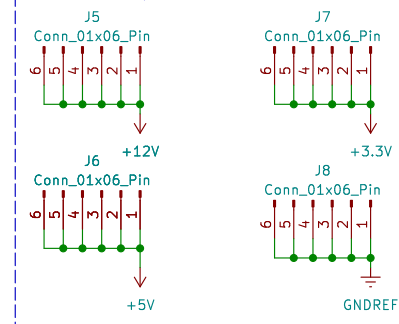
12 to 5v 3A LM2596 buck module for KL25z and other peripherals



Power indicator LEDs



Power Breakout pins



Author: Emiel Visser

**OnlyPlants**

Sheet: /Power/

File: Power.kicad\_sch

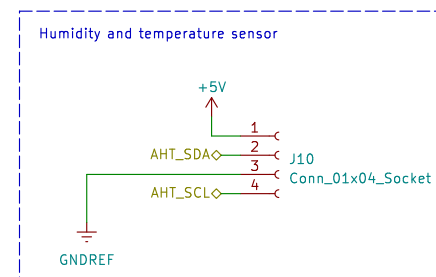
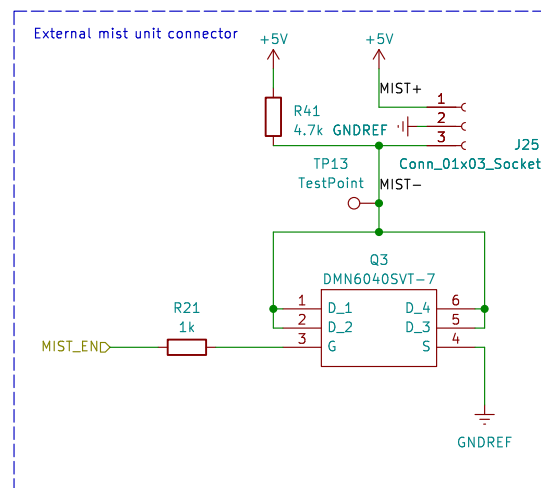
**Title: Greenhouse project FRDM-KL25Z hat**

Size: A4 Date: 16-03-2023

KiCad E.D.A. kicad (7.0.0)

**Rev: v4.0**

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Author: Emiel Visser

**OnlyPlants**

Sheet: /Humidifier/

File: Humidifier.kicad\_sch

**Title: Greenhouse project FRDM-KL25Z hat**

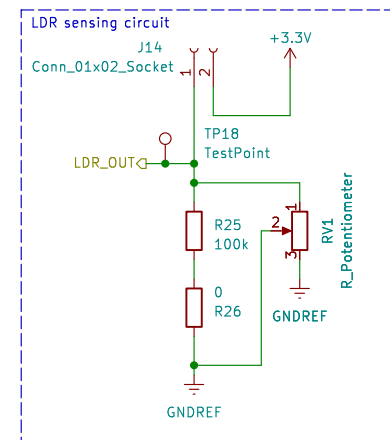
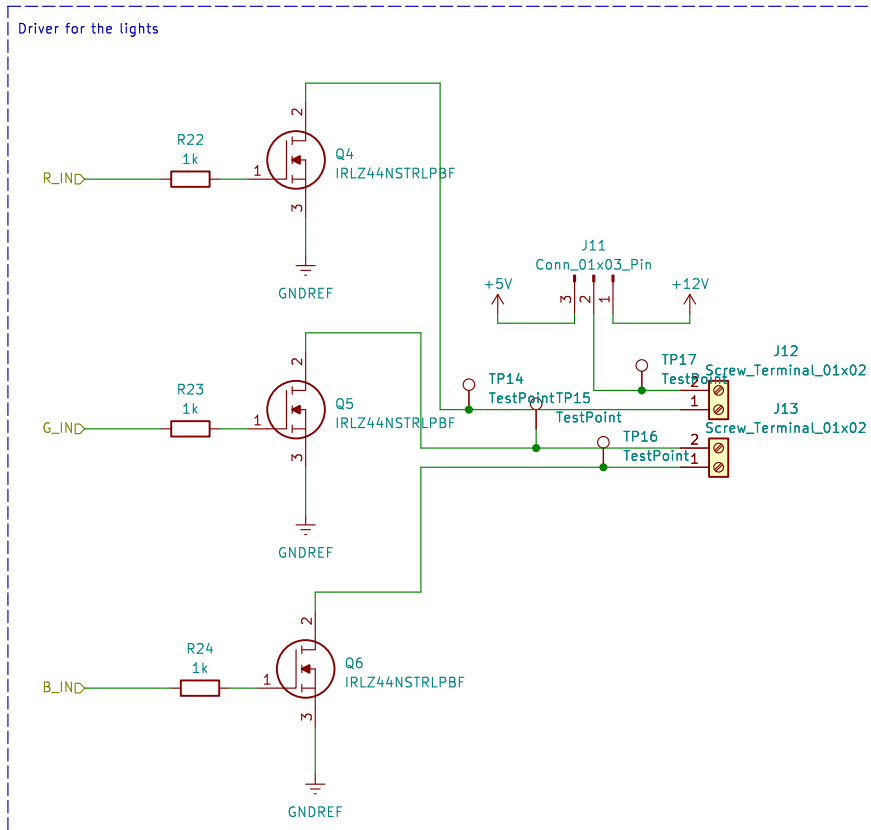
Size: A4

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

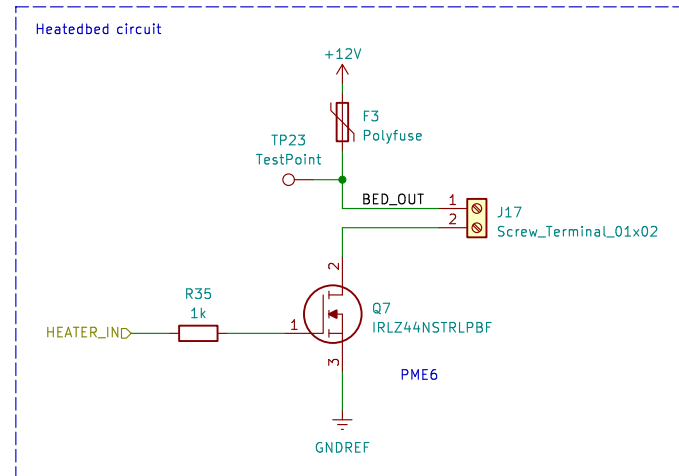
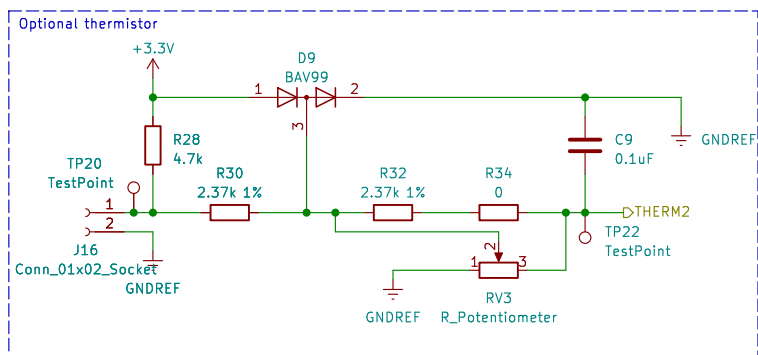
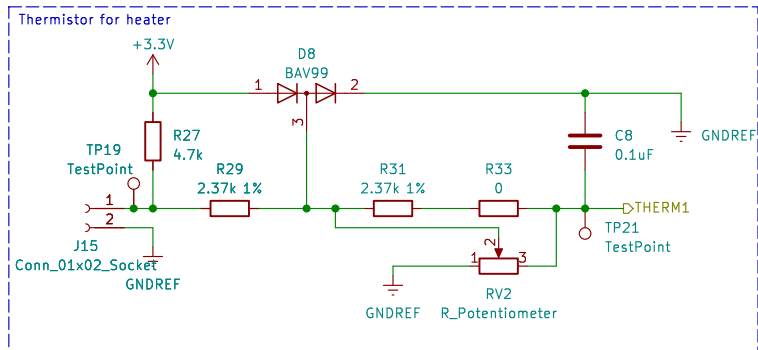
**Title: Greenhouse project FRDM-KL25Z hat**

Size: A4 Date: 16-03-2023

KiCad E.D.A. kicad (7.0.0)

**Rev: v4.0**

Id: 4/7



Author: Emiel Visser

**OnlyPlants**

Sheet: /Heating/

File: Heating.kicad\_sch

**Title: Greenhouse project FRDM-KL25Z hat**

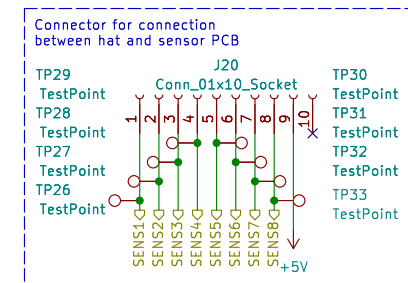
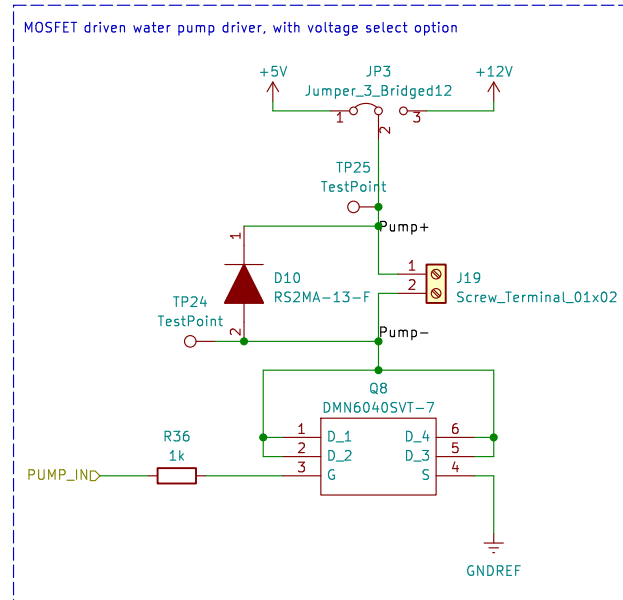
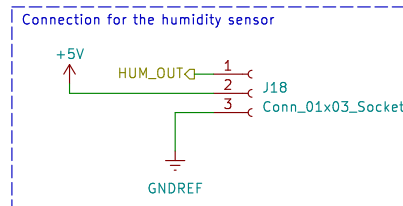
Size: A4

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**

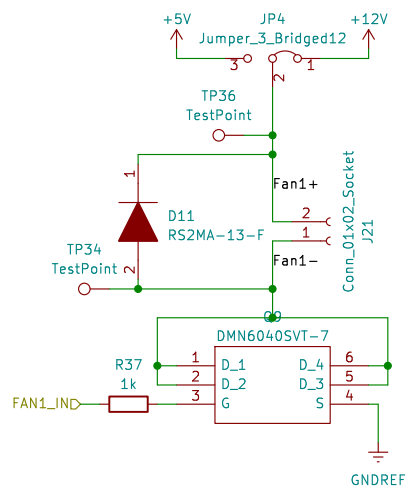
Size: A4 Date: 16-03-2023

KiCad E.D.A. kicad (7.0.0)

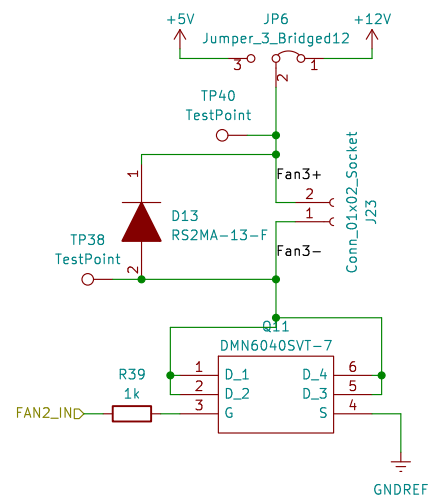
Rev: v4.0

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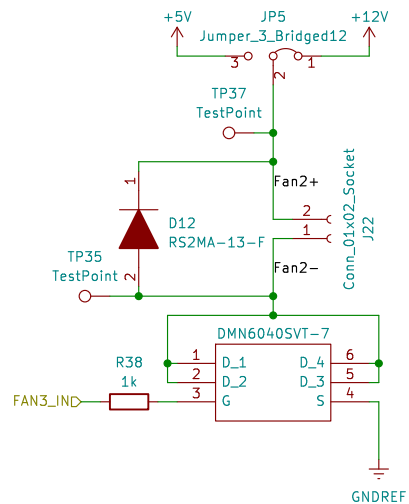
MOSFET driven fan driver, with voltage select option



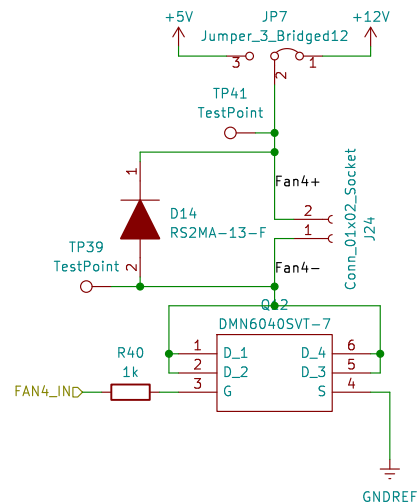
MOSFET driven fan driver, with voltage select option



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)

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