

File: Power.kicad_sch

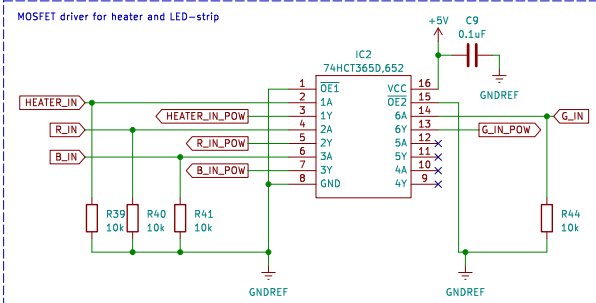
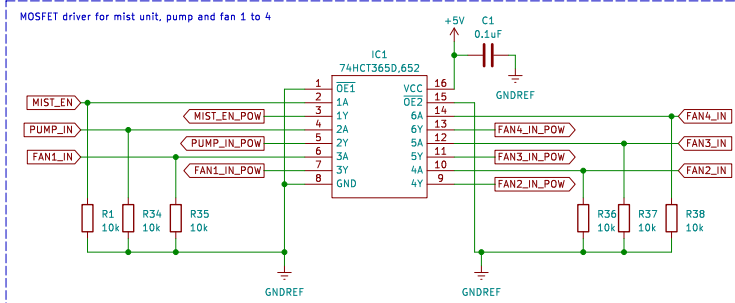
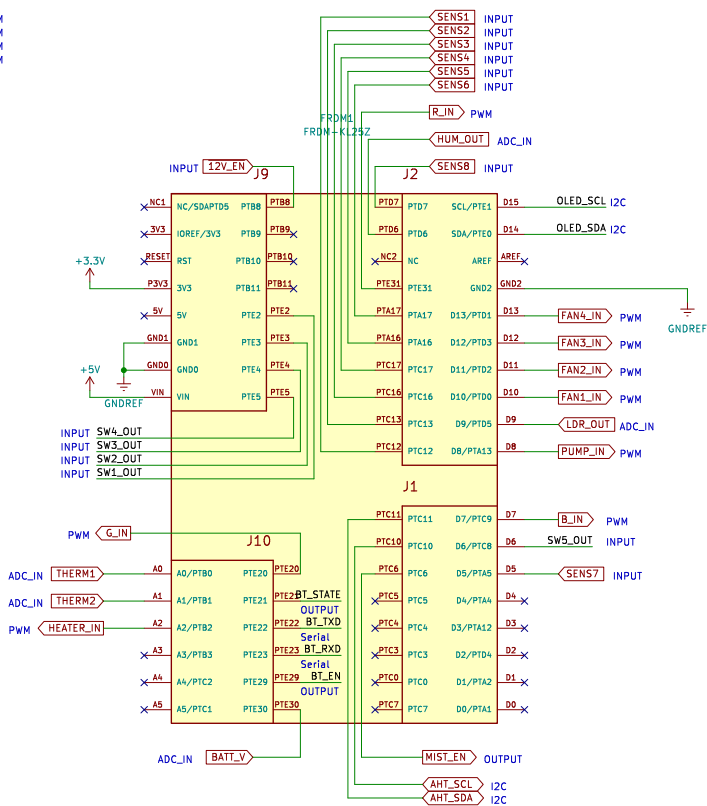
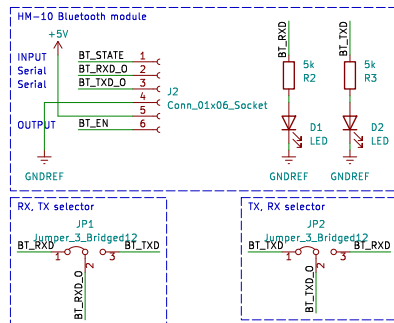
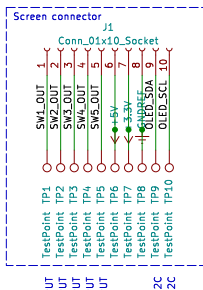
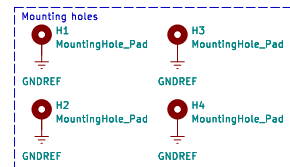
File: Water.kicad_sch

File: Humidifier.kicad_sch

File: Fans.kicad_sch

File: Lights.kicad_sch

File: Heating.kicad_sch



Author: Emiel Visser

OnlyPlants

Sheet: /

File: greenhouse_project_hat.kicad_sch

Title: Greenhouse project FRDM-KL35Z hat

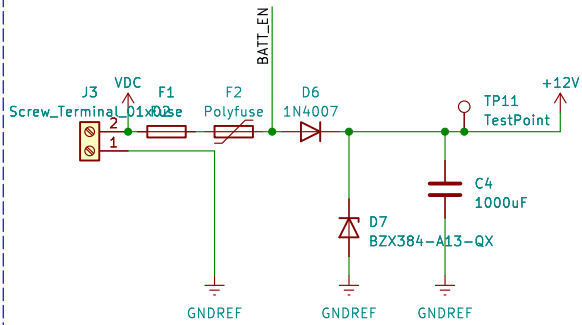
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KiCad E.D.A. kicad (7.0.0)

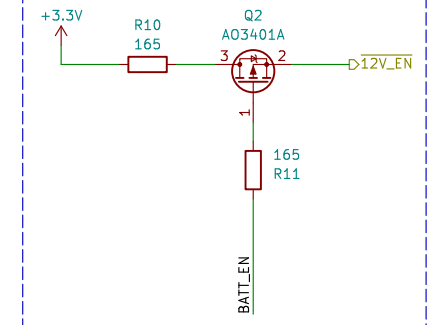
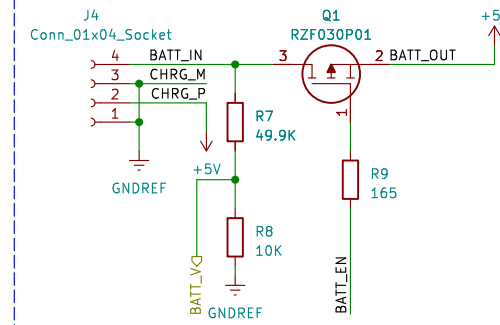
Rev. v3.0

Id: 147

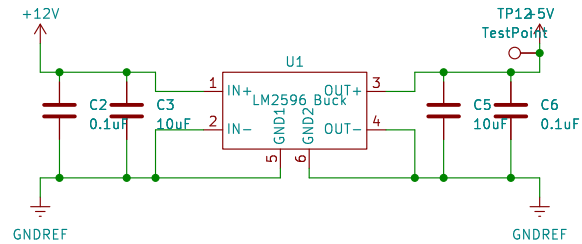
12v input and protection



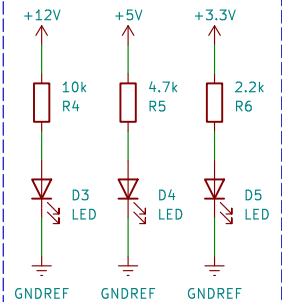
P mosfet engages when 12v power is removed.
This enables the backup battery



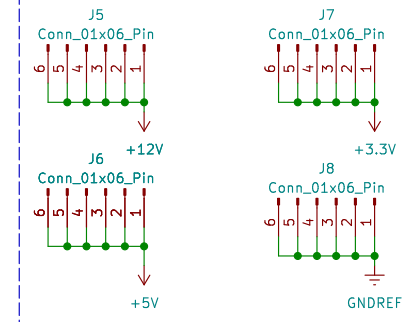
12 to 5v 3A LM2596 buck module for KL25z and other peripherals



Power indicator LEDs



Power Breakout pins



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Sheet: /Power/

File: Power.kicad_sch

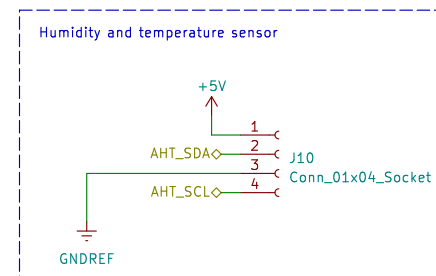
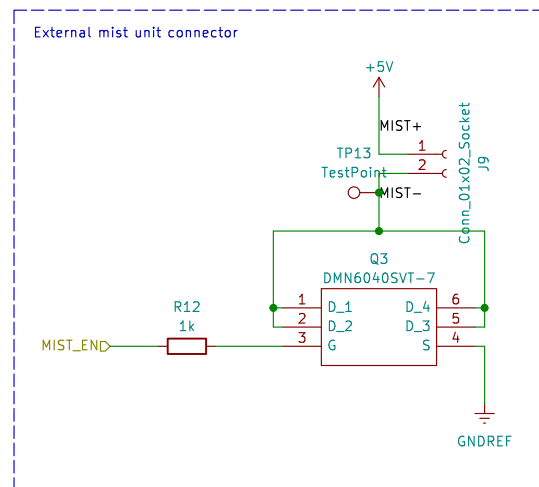
Title: Greenhouse project FRDM-KL35Z hat

Size: A4 Date: 13-03-2023

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Id: 2/7



Author: Emiel Visser

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Sheet: /Humidifier/

File: Humidifier.kicad_sch

Title: Greenhouse project FRDM-KL35Z hat

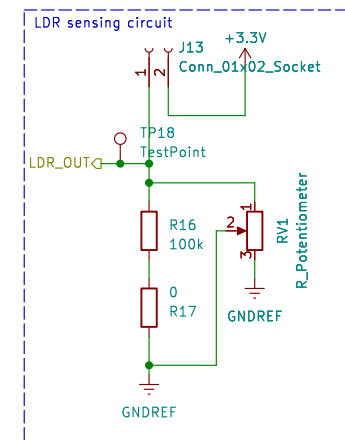
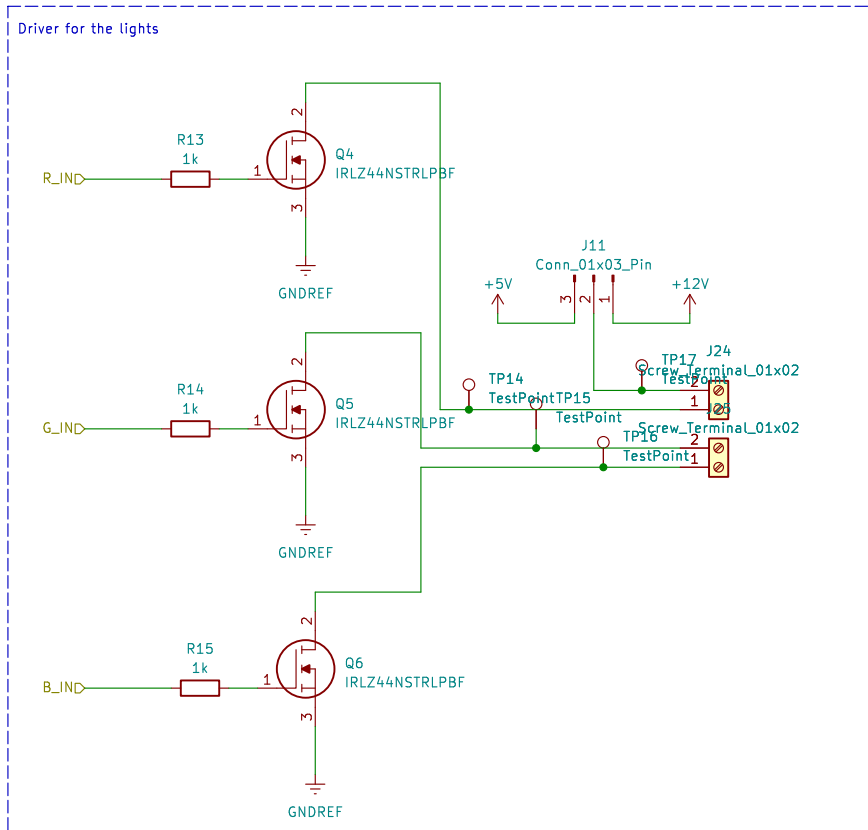
Size: A4

Date: 13-03-2023

Rev: v3.0

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Id: 3/7



Author: Emiel Visser

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Sheet: /Lights/

File: Lights.kicad_sch

Title: Greenhouse project FRDM-KL35Z hat

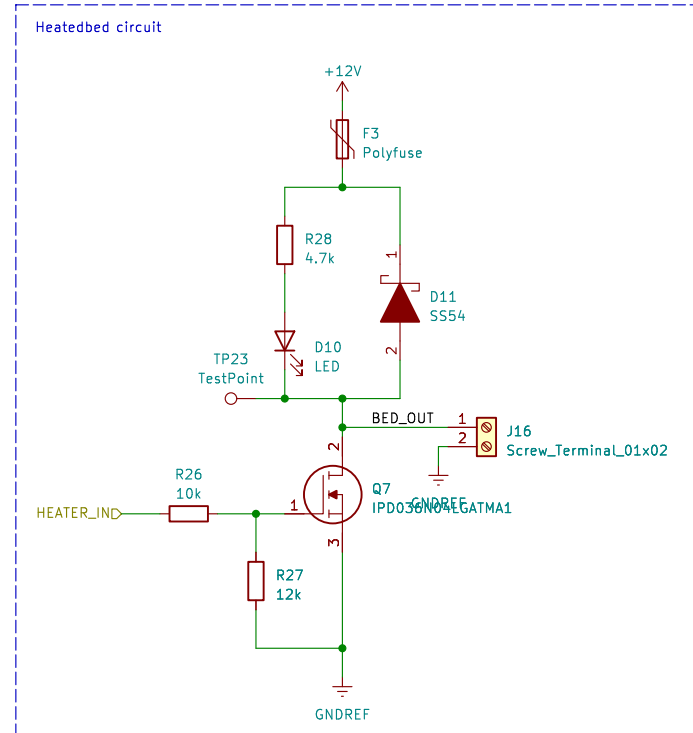
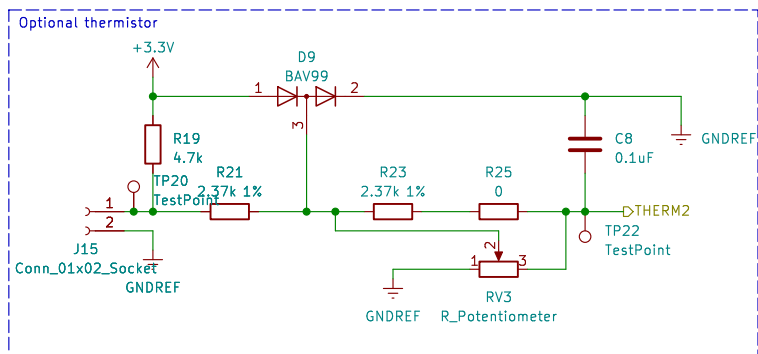
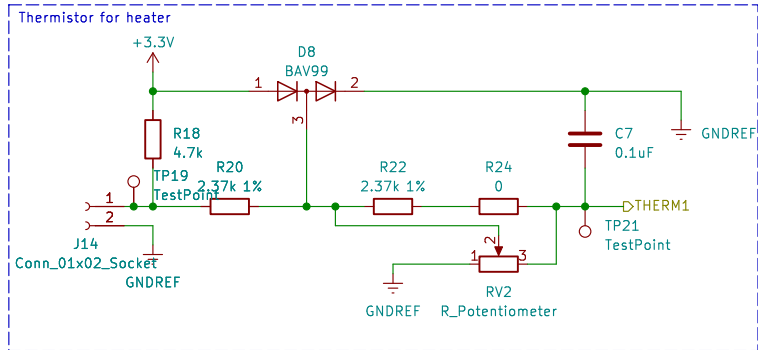
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Date: 13-03-2023

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KiCad E.D.A. kicad (7.0.0)

Id: 4/7



Author: Emiel Visser

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Sheet: /Heating/

File: Heating.kicad_sch

Title: Greenhouse project FRDM-KL35Z hat

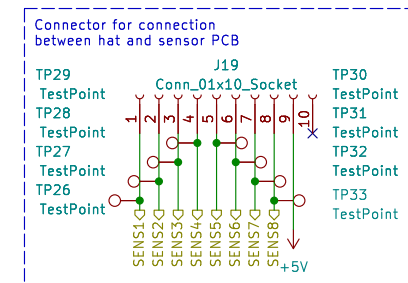
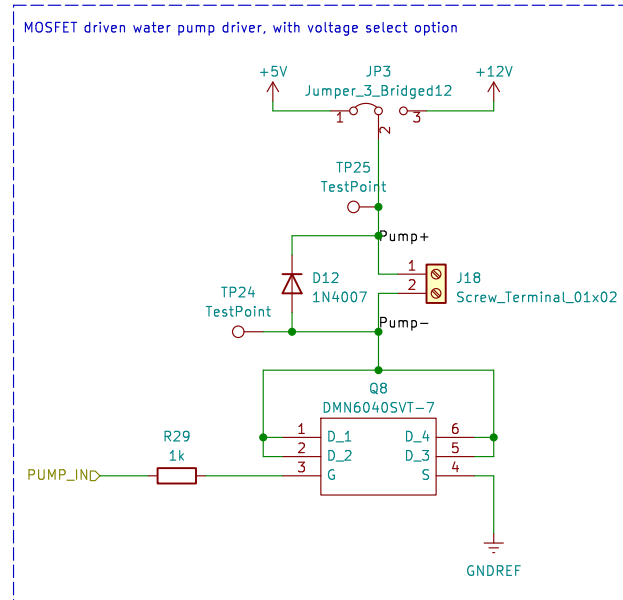
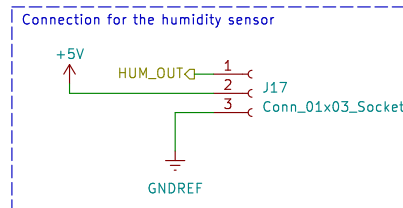
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Date: 13-03-2023

Rev: v3.0

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-KL35Z hat

Size: A4

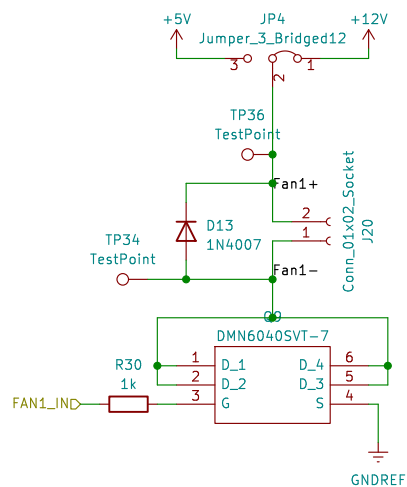
Date: 13-03-2023

Rev: v3.0

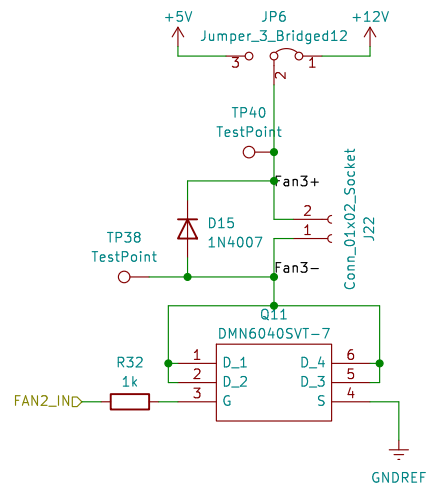
KiCad E.D.A. kicad (7.0.0)

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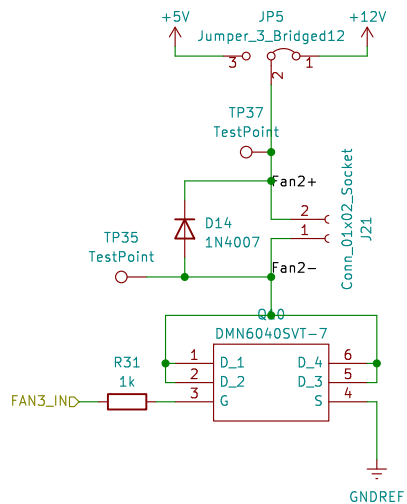
MOSFET driven fan driver, with voltage select option



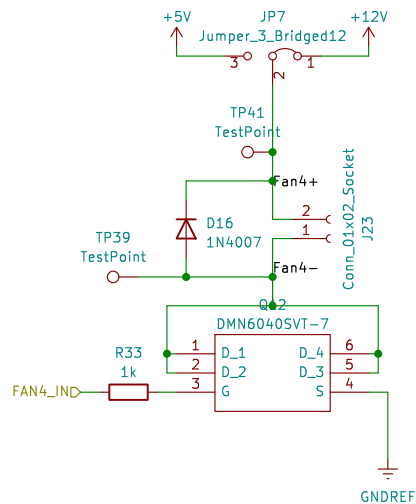
MOSFET driven fan driver, with voltage select option



MOSFET driven fan driver, with voltage select option



MOSFET driven fan driver, with voltage select option



Author: Emiel Visser

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Sheet: /Fans/

File: Fans.kicad_sch

Title: Greenhouse project FRDM-KL35Z hat

Size: A4

Date: 13-03-2023

Rev: v3.0

KiCad E.D.A. kicad (7.0.0)

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