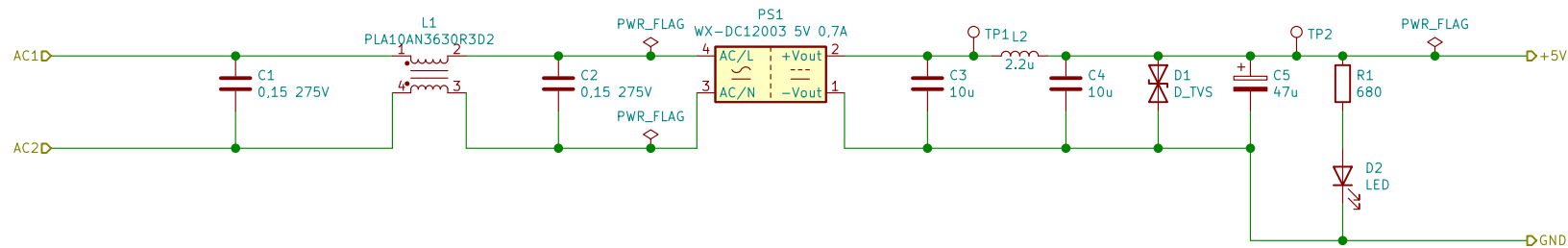


AC/DC +5V power source



Yuriy Volkov

Sheet: /AC-DC 5V/

File: AC-DC 5V.sch

Title: Furnace 230V

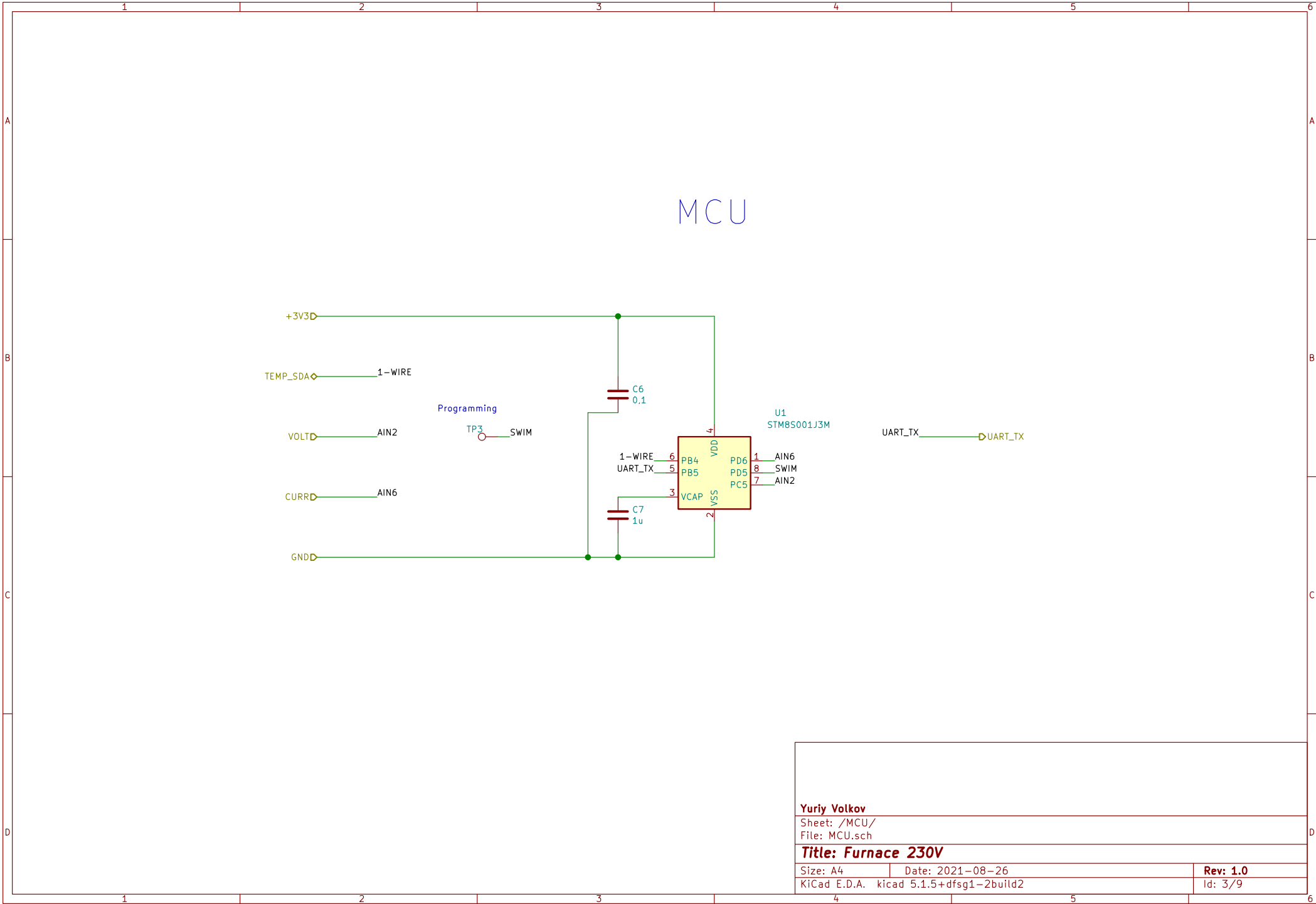
Size: A4

Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 2/9



Yuriy Volkov

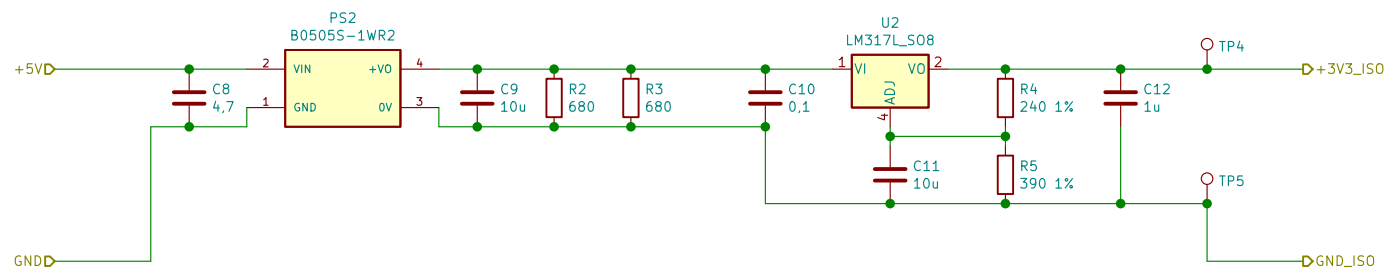
Sheet: /MCU/
File: MCU.sch

Title: Furnace 230V

Size: A4
Date: 2021-08-26
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev: 1.0
Id: 3/9

Isolated +3V3 power source



Yuriy Volkov

Sheet: /+3V3_ISOLATED/

File: +3V3_isolated.sch

Title: Furnace 230V

Size: A4

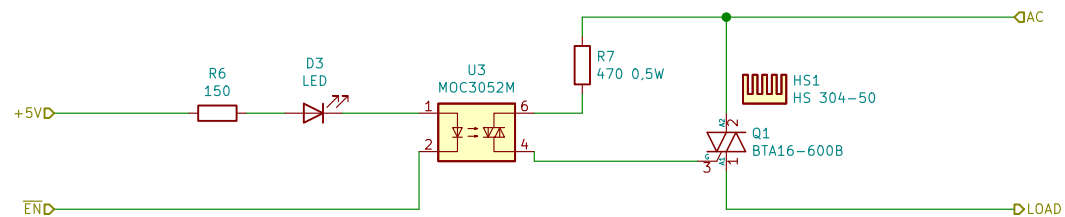
Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 4/9

Isolated TRIAC control circuit



Yuriy Volkov

Sheet: /ISOLATED_TRIAC/

File: Isolated_TRIAC.sch

Title: Furnace 230V

Size: A4

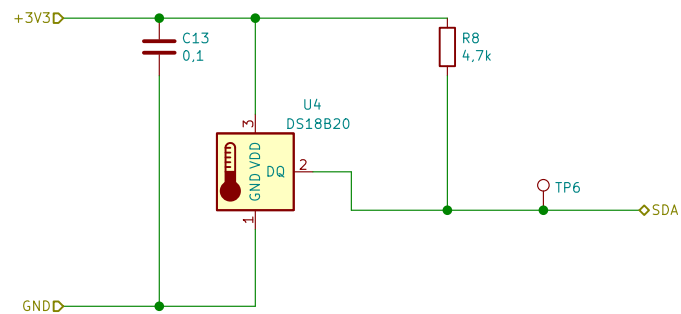
Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 5/9

1-wire temperature sensor



Yuriy Volkov

Sheet: /TEMP_SENSOR/

File: Temp_sensor.sch

Title: Furnace 230V

Size: A4

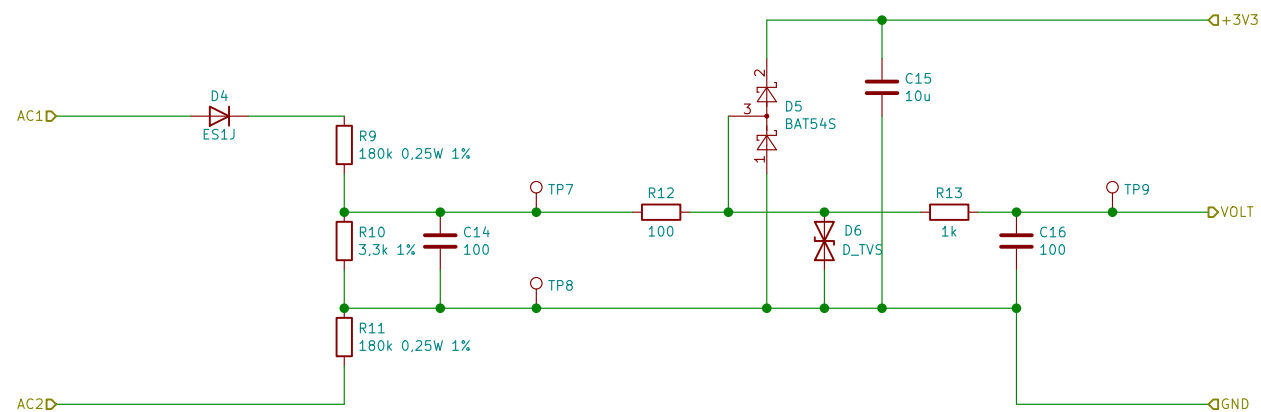
Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 6/9

Input 230V voltage measurement circuit



Yuriy Volkov

Sheet: /VOLTAGE_DIVIDER/

File: Voltage_divider.sch

Title: Furnace 230V

Size: A4

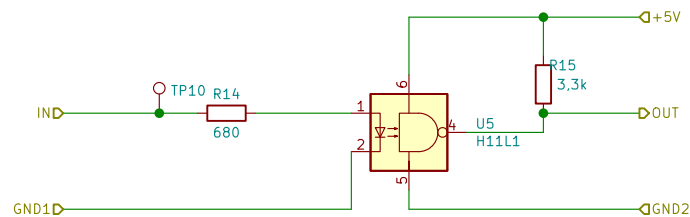
Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 7/9

UART isolator



Yuriy Volkov

Sheet: /OPTOISOLATOR/

File: Optoisolator.sch

Title: Furnace 230V

Size: A4

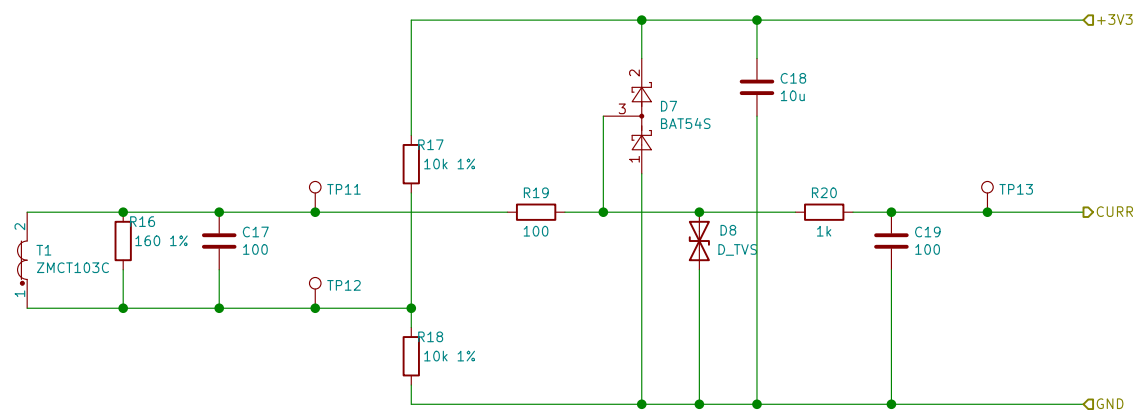
Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 8/9

Load current measurement circuit



Yuriy Volkov

Sheet: /CURRENT_SENSOR/

File: Current_sensor.sch

Title: Furnace 230V

Size: A4

Date: 2021-08-26

Rev: 1.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 9/9