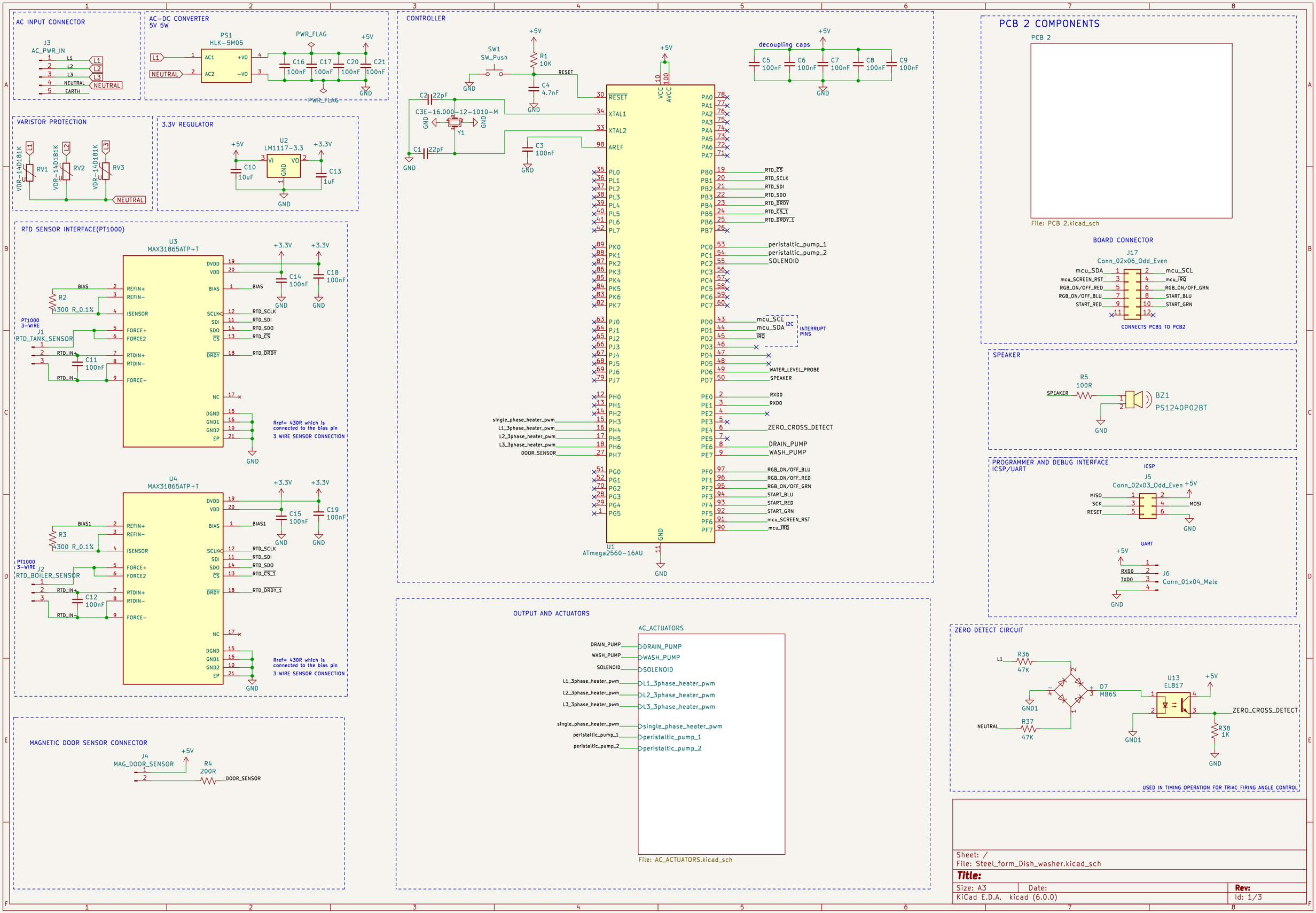
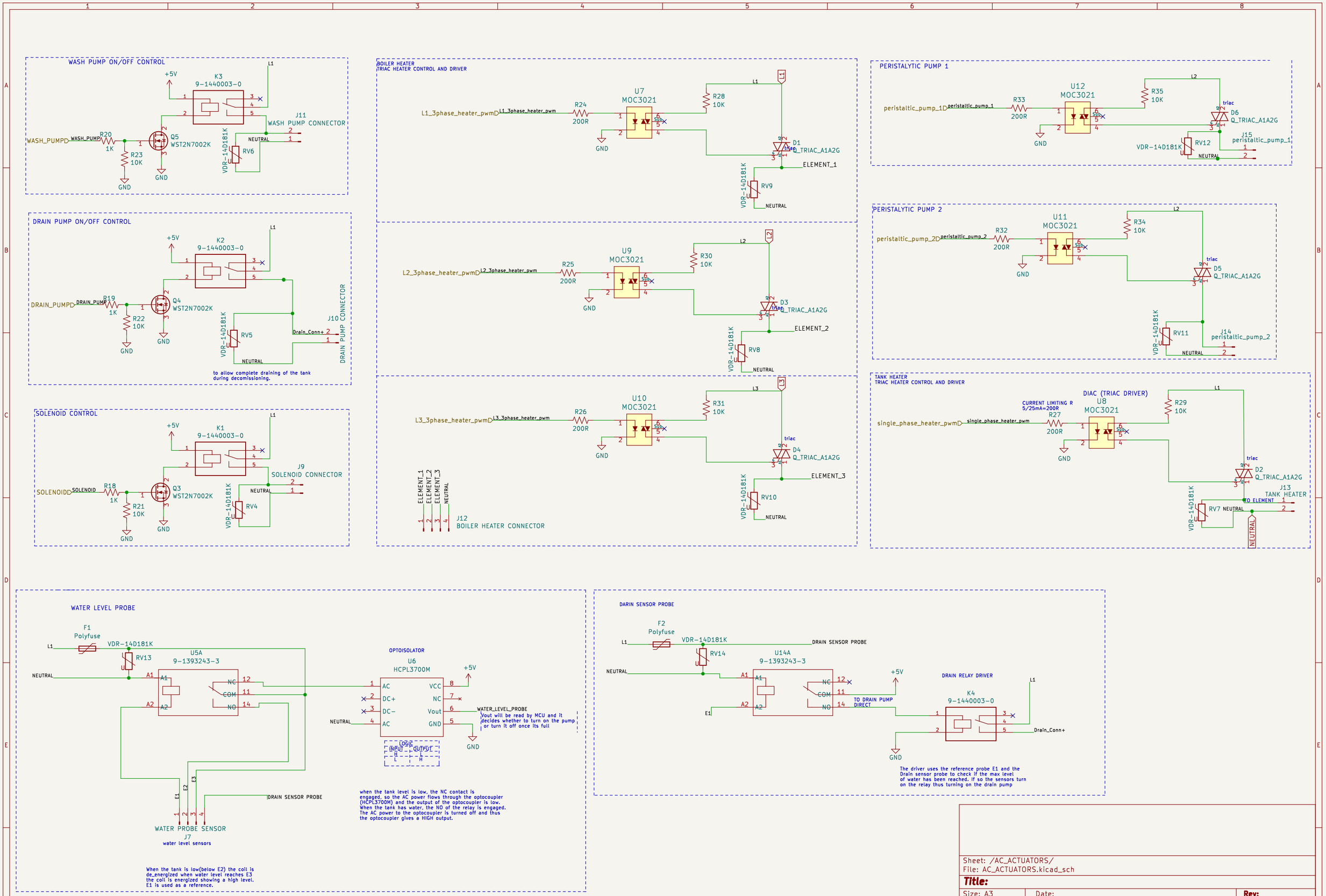
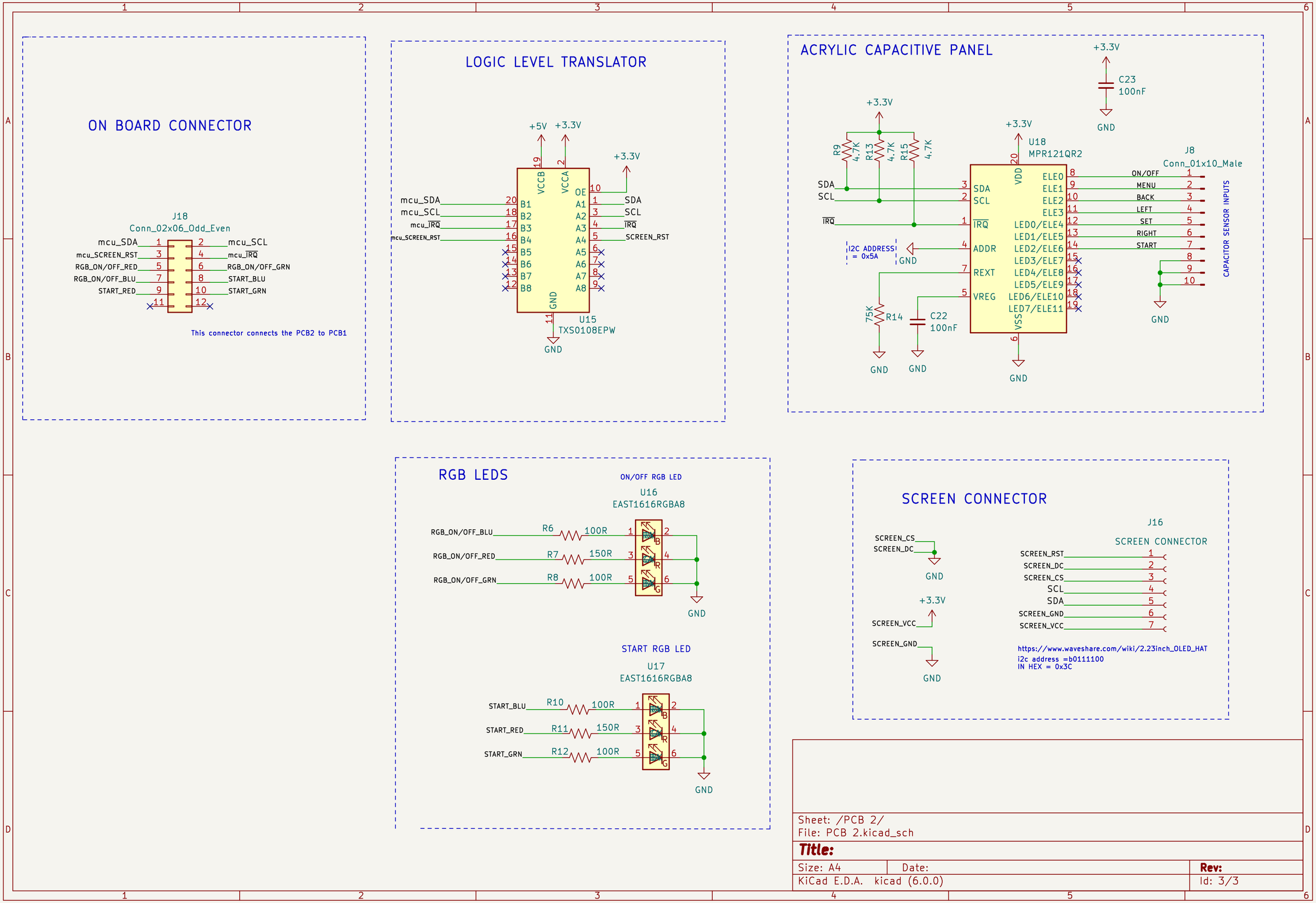

AC INPUT CONNECTOR
J3
AC_PWR_IN
L1
L2
L3
NEUTRAL
EARTH
AC-DC CONVERTER
5V 5W
PS1
HLK-5M05
AC1
AC2
+VO
-VO
PWR_FLAG
C16 100nF
C17 100nF
C20 100nF
C21 100nF
+5V
GND
VARISTOR PROTECTION
RV1
RV2
RV3
VDR-140181K
3.3V REGULATOR
U2
LM1117-3.3
VI
VO
GND
C10 10uF
C13 1uF
+3.3V
RTD SENSOR INTERFACE(PT1000)
U3
MAX31865ATP+T
DVDD
VDD
BIAS
REFIN+
REFIN-
ISENSOR
FORCE+
FORCE2
RTDIN+
RTDIN-
FORCE-
SCLK
SDI
SDO
CS
DRDY
NC
DGND
GND1
GND2
EP
R2
4300 R_0.1%
C14 100nF
C18 100nF
C11 100nF
PT1000
3-WIRE
J1
RTD_TANK_SENSOR
RTD_IN+
RTD_IN-
RTD_SCLK
RTD_SDI
RTD_SDO
RTD_CS
RTD_DRDY
Rref= 430R which is
connected to the bias pin
3 WIRE SENSOR CONNECTION
U4
MAX31865ATP+T
R3
4300 R_0.1%
C15 100nF
C19 100nF
C12 100nF
J2
RTD_BOILER_SENSOR
BIAS1
RTD_CS_1
RTD_DRDY_1
MAGNETIC DOOR SENSOR CONNECTOR
J4
MAG_DOOR_SENSOR
R4
200R
DOOR_SENSOR
CONTROLLER
SW1
SW_Push
R1
10K
C4
4.7nF
RESET
C2 22pF
C1 22pF
C3E-16.000-12-1010-M
Y1
C3
100nF
VCC
AVCC
XTAL1
XTAL2
AREF
U1
ATmega2560-16AU
decoupling caps
C5 100nF
C6 100nF
C7 100nF
C8 100nF
C9 100nF
RTD_CS
RTD_SCLK
RTD_SDI
RTD_SDO
RTD_DRDY
RTD_CS_1
RTD_DRDY_1
peristaltic_pump_1
peristaltic_pump_2
SOLENOID
mcu_SCL
mcu_SDA
IRQ
I2C
INTERRUPT PINS
WATER_LEVEL_PROBE
SPEAKER
RXD0
ZERO_CROSS_DETECT
DRAIN_PUMP
WASH_PUMP
RGB_ON/OFF_BLU
RGB_ON/OFF_RED
RGB_ON/OFF_GRN
START_BLU
START_RED
START_GRN
mcu_SCREEN_RST
mcu_IRQ
single_phase_heater_pwm
L1_3phase_heater_pwm
L2_3phase_heater_pwm
L3_3phase_heater_pwm
DOOR_SENSOR
OUTPUT AND ACTUATORS
AC_ACTUATORS
File: AC_ACTUATORS.kicad_sch
PCB 2 COMPONENTS
PCB 2
File: PCB 2.kicad_sch
BOARD CONNECTOR
J17
Conn_02x06_Odd_Even
mcu_SDA
mcu_SCREEN_RST
RGB_ON/OFF_RED
RGB_ON/OFF_BLU
START_RED
mcu_SCL
mcu_IRQ
RGB_ON/OFF_GRN
START_BLU
START_GRN
CONNECTS PCB1 TO PCB2
SPEAKER
R5
100R
BZ1
PS1240P02BT
PROGRAMMER AND DEBUG INTERFACE
ICSP/UART
ICSP
J5
Conn_02x03_Odd_Even
MISO
SCK
RESET
MOSI
UART
J6
Conn_01x04_Male
RXD0
TXD0
ZERO DETECT CIRCUIT
R36
47K
R37
47K
D7
MB6S
U13
EL817
GND1
NEUTRAL
ZERO_CROSS_DETECT
R38
1K
USED IN TIMING OPERATION FOR TRIAC FIRING ANGLE CONTROL
Sheet: /
File: Steel_form_Dish_washer.kicad_sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. kicad (6.0.0)
Id: 1/3



Sheet: /AC_ACTUATORS/
File: AC_ACTUATORS.kicad_sch

Title:

Size: A3	Date:	Rev:
KiCad E.D.A. kicad (6.0.0)		Id: 2/3



Sheet: /PCB 2/
File: PCB 2.kicad_sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.0)		Id: 3/3