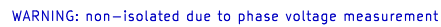


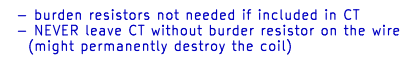
Powered only from U1!



## Voltage Sampling



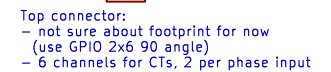
## Current Sampling



## External connectors



Bottom connector:  
screw-in 2.54mm cages, 230V capable



Sheet: /PowerBoard/  
File: power\_board.kicad\_sch

**Title: Power Board**

Size: A4

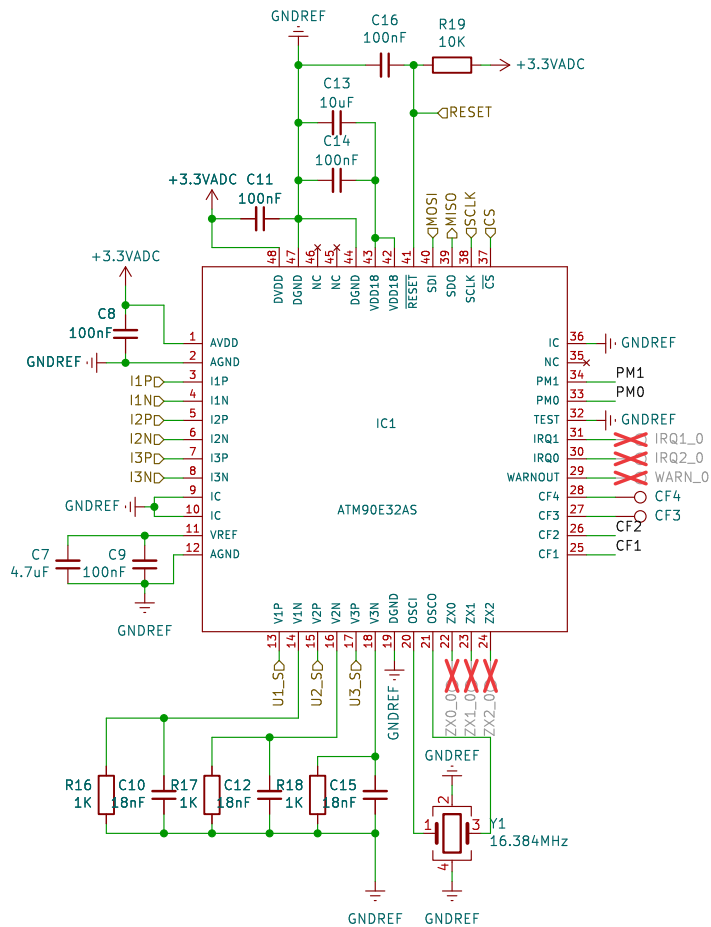
Date:

Size: A4	Date:
KiCad E.D.A.	kicad 7.0.0-da2b9df05c~163~ubuntu22.04.1

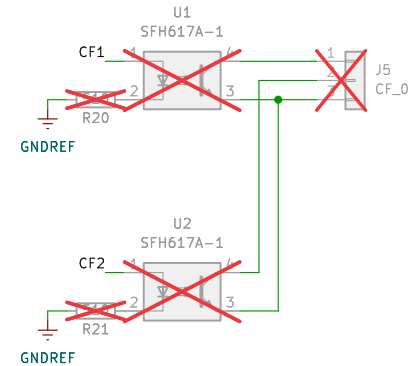
Rev: 0.4

Id: 2/5

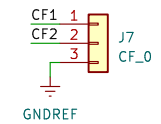
# ATM90E32 Poly Phase Metering AFE



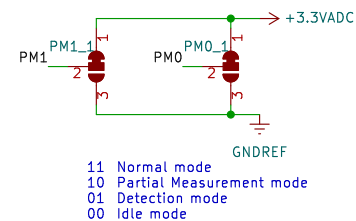
## Isolated Pulse Out



## Non-isolated Pulse Out



## Power Mode



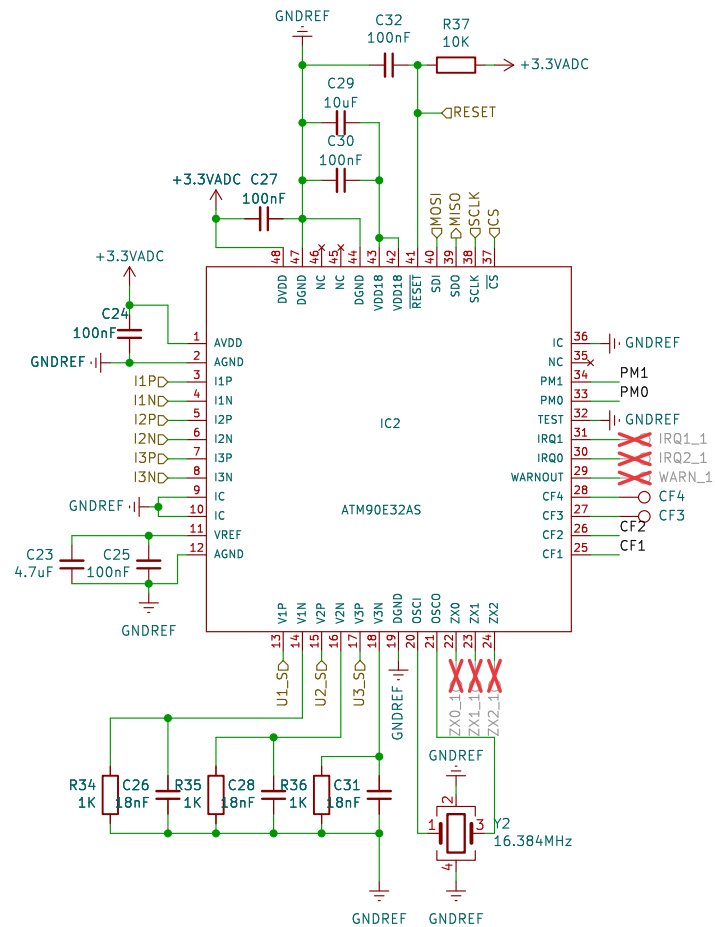
Sheet: /MeteringIC0/  
File: metering\_ic.kicad\_sch

### Title: Metering Board – IC

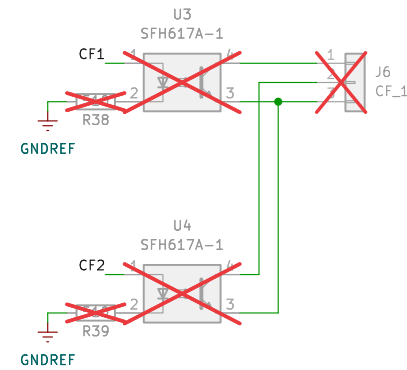
Size: A4 Date:  
KiCad E.D.A. kicad 7.0.0-da2b9df05c-163-ubuntu22.04.1

Rev: 0.4  
Id: 3/5

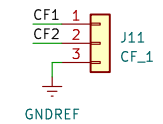
## ATM90E32 Poly Phase Metering AFE



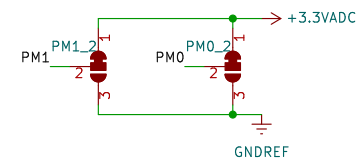
## Isolated Pulse Out



### Non-isolated Pulse Out



## Power Mode



- 11 Normal mode  
10 Partial Measurement mode  
01 Detection mode  
00 Idle mode

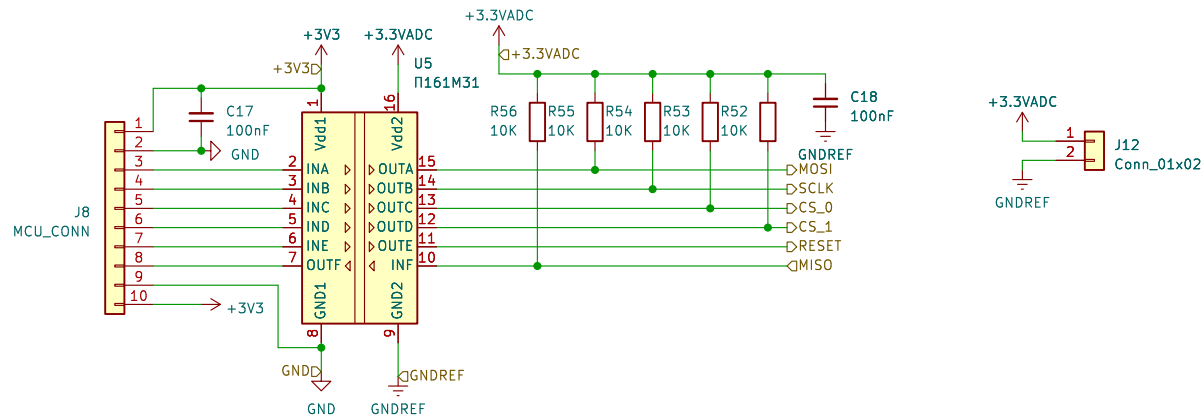
Sheet: /Metering/C1/  
File: metering\_ic.kicad\_sch

**Title: Metering Board – IC**

Size: A4	Date:
KiCad E.D.A. kicad 7.0.0-da2b9df05c~163-ubuntu22.04.1	

Rev: 0.4
Id: 4/5

Isolator



Sheet: /MeteringConn/ File: metering_conn.kicad_sch		
<b>Title: Metering Board – connectors</b>		
Size: A4	Date:	Rev: 0.4
KiCad E.D.A. kicad 7.0.0-da2b9df05c-163-ubuntu22.04.1		Id: 5/5