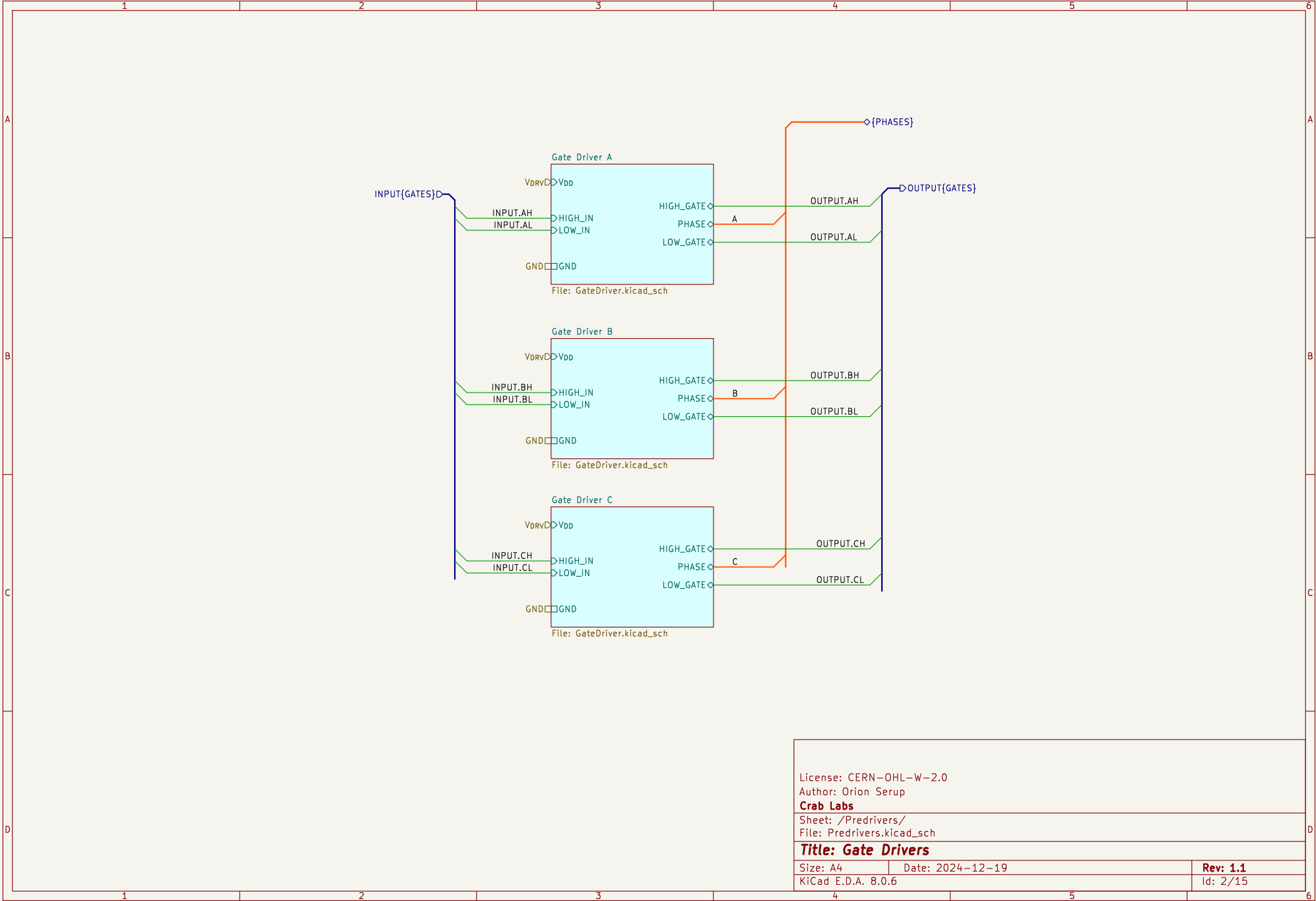


Size: A3	Date: 2024-12-19
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Rev: 1.1
Id: 1/15



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Sheet: /Predrivers/

File: Predrivers.kicad_sch

Title: Gate Drivers

Size: A4

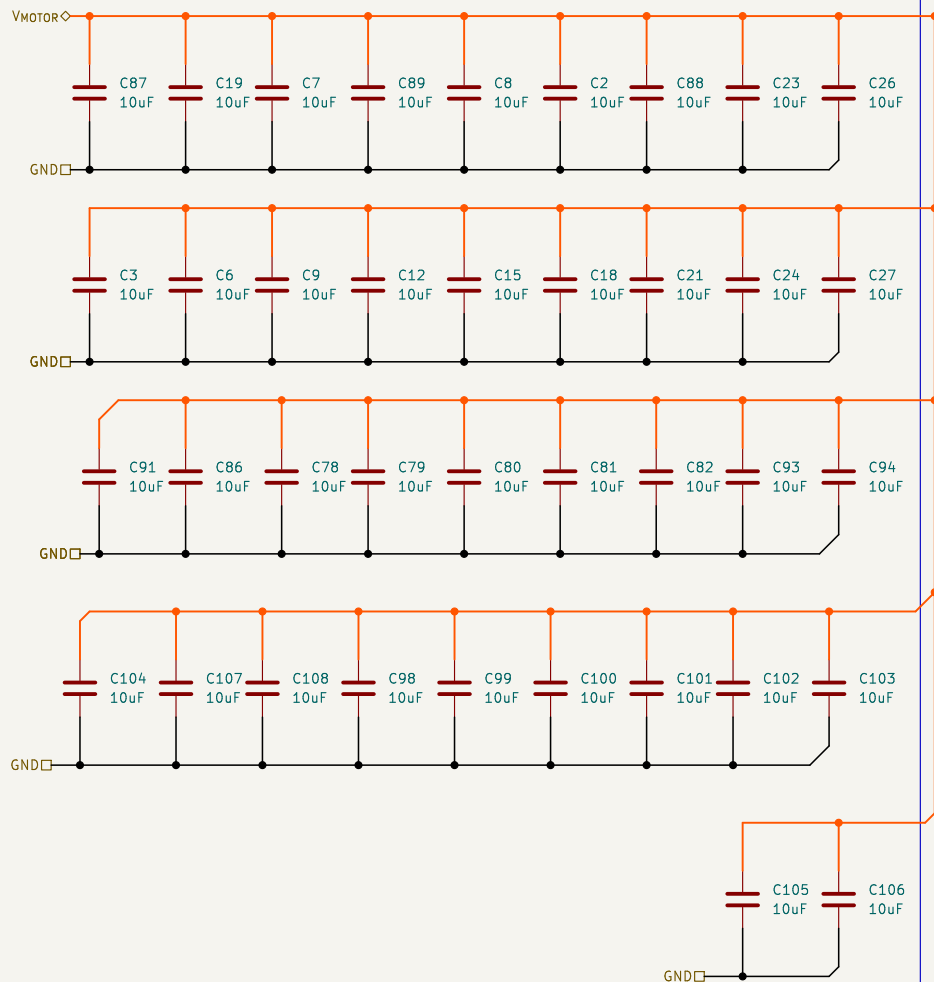
Date: 2024-12-19

Rev: 1.1

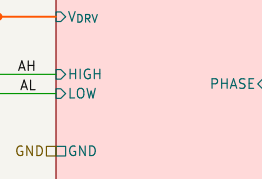
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Id: 2/15

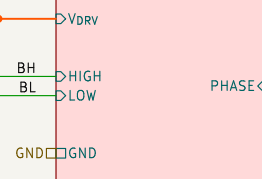
Bulk Capacitors



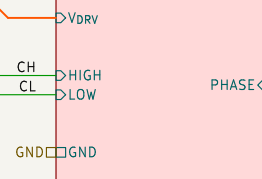
Phase Driver A



Phase Driver B



Phase Driver C



DOUT{PHASES}

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Sheet: /Drivers/

File: Drivers.kicad_sch

Title: Phase Drivers

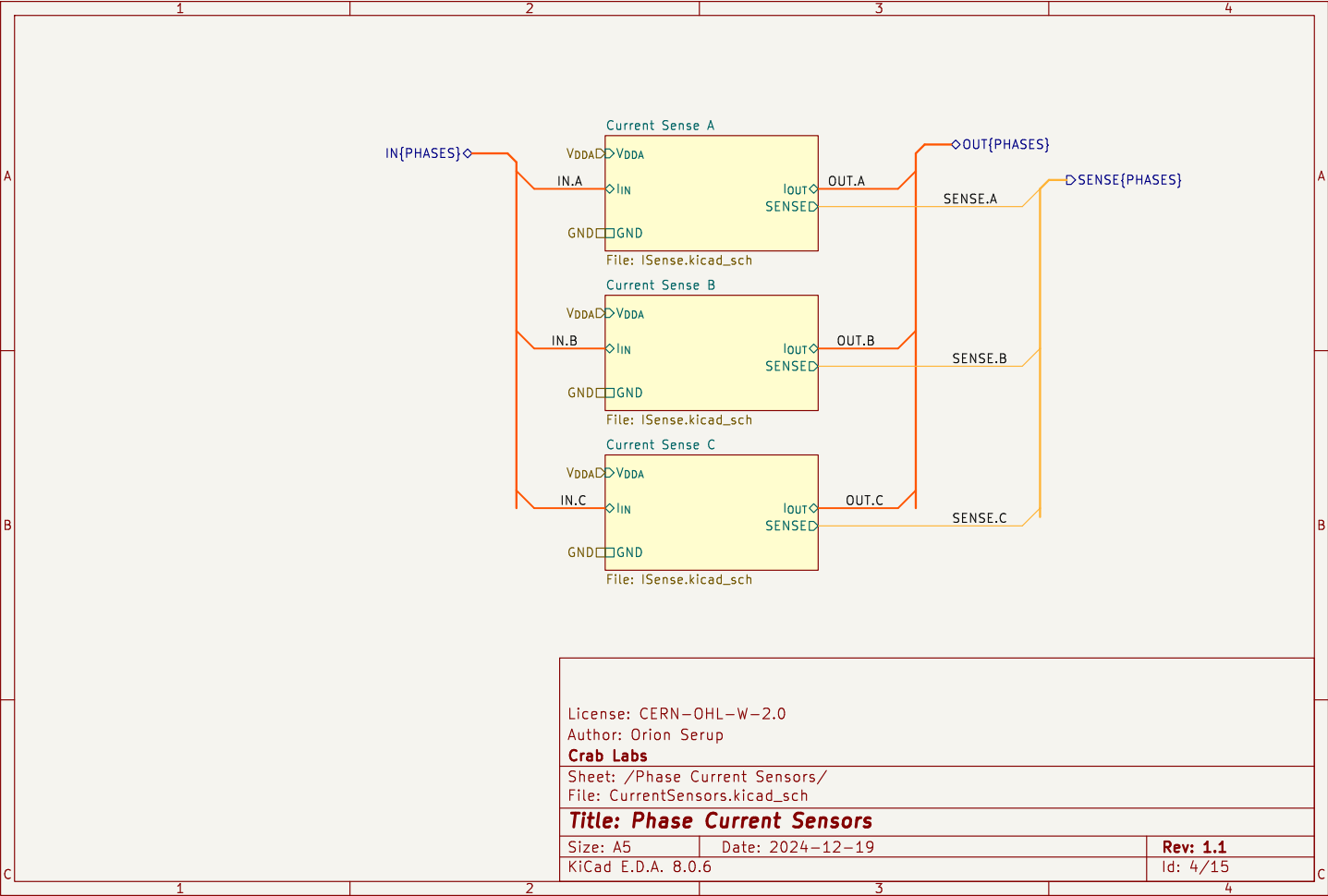
Size: A4

Date: 2024-12-19

Rev: 1.1

KiCad E.D.A. 8.0.6

Id: 3/15



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Author: Orion Serup

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Sheet: /Phase Current Sensors/

File: CurrentSensors.kicad_sch

Title: Phase Current Sensors

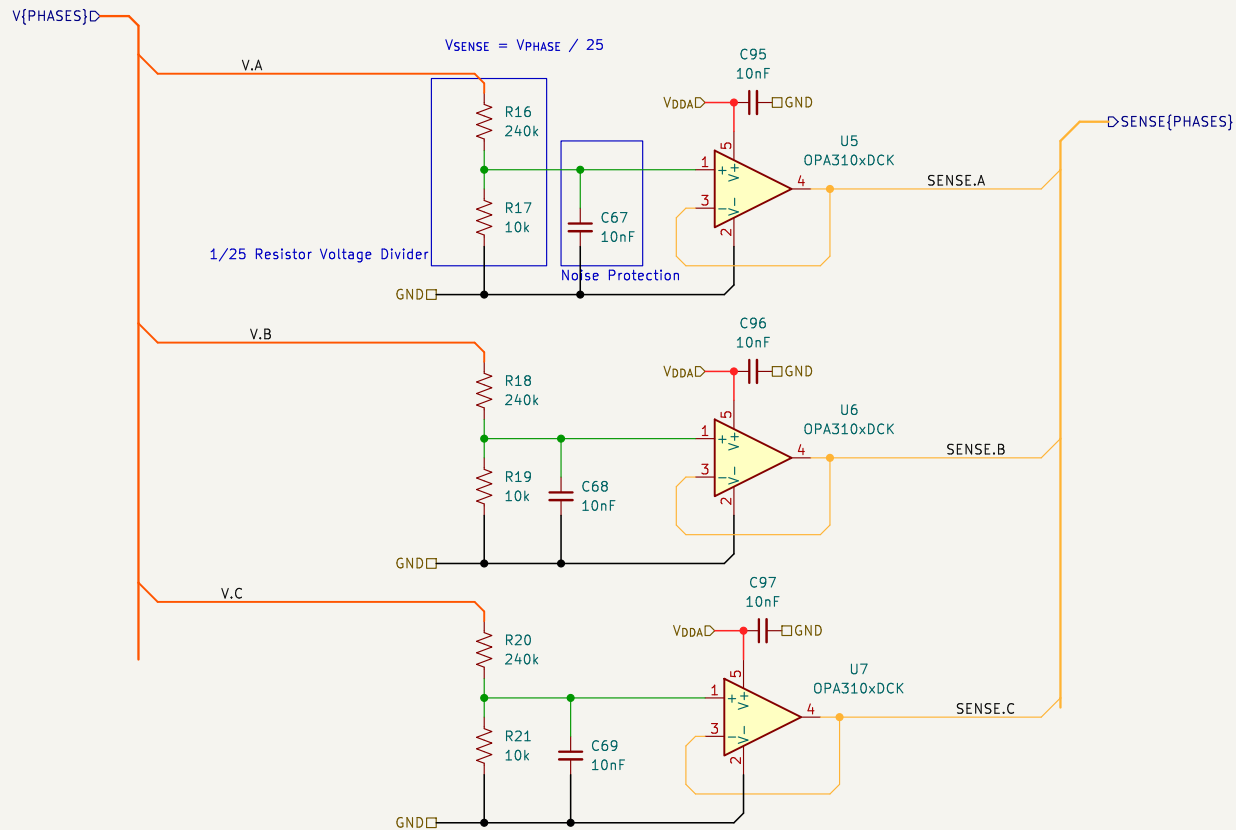
Size: A5

Date: 2024-12-19

Rev: 1.1

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Id: 4/15



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Author: Orion Serup

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Sheet: /Voltage Sensors/

File: VoltageSensors.kicad_sch

Title: Phase Voltage Sensors

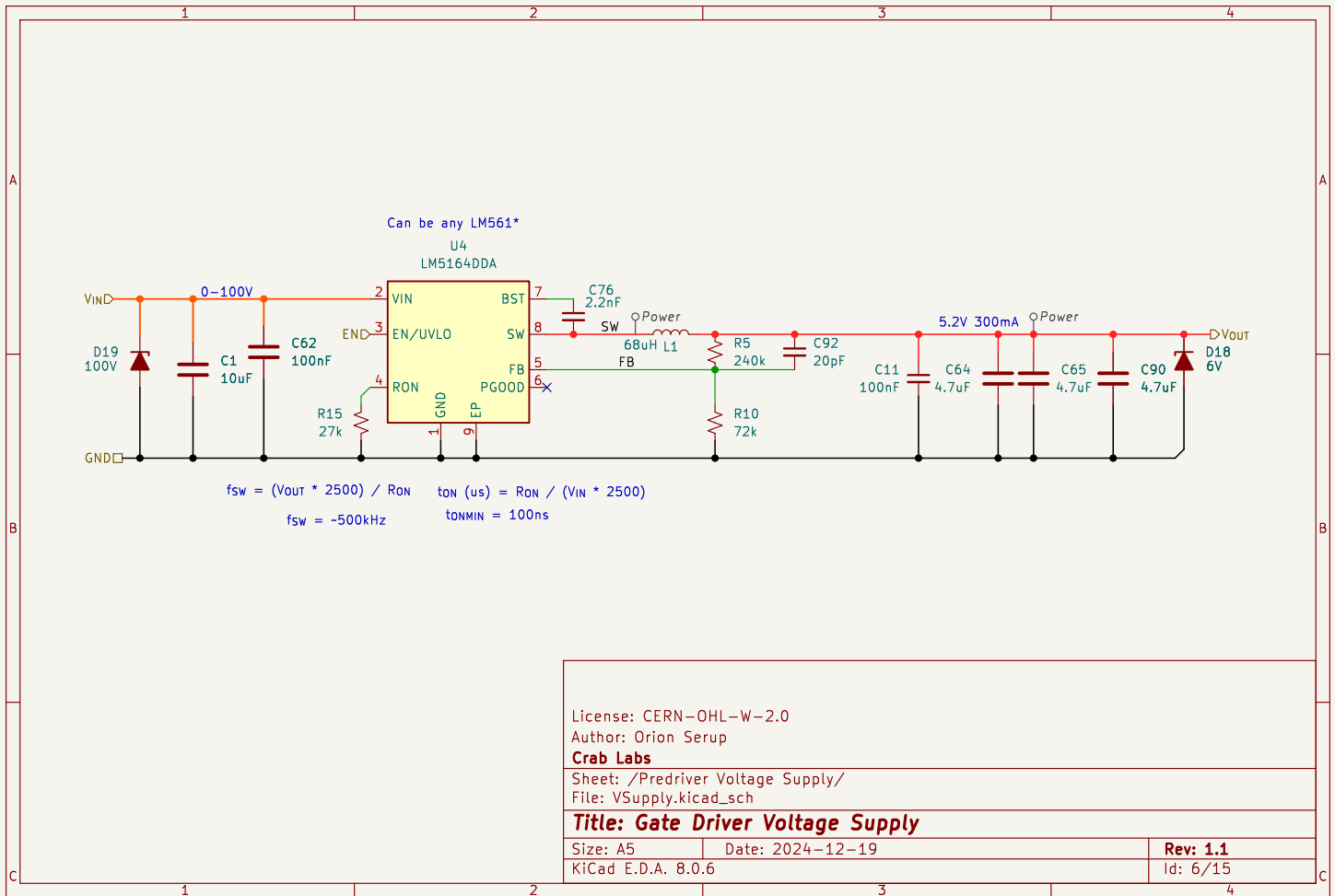
Size: A4

Date: 2024-12-19

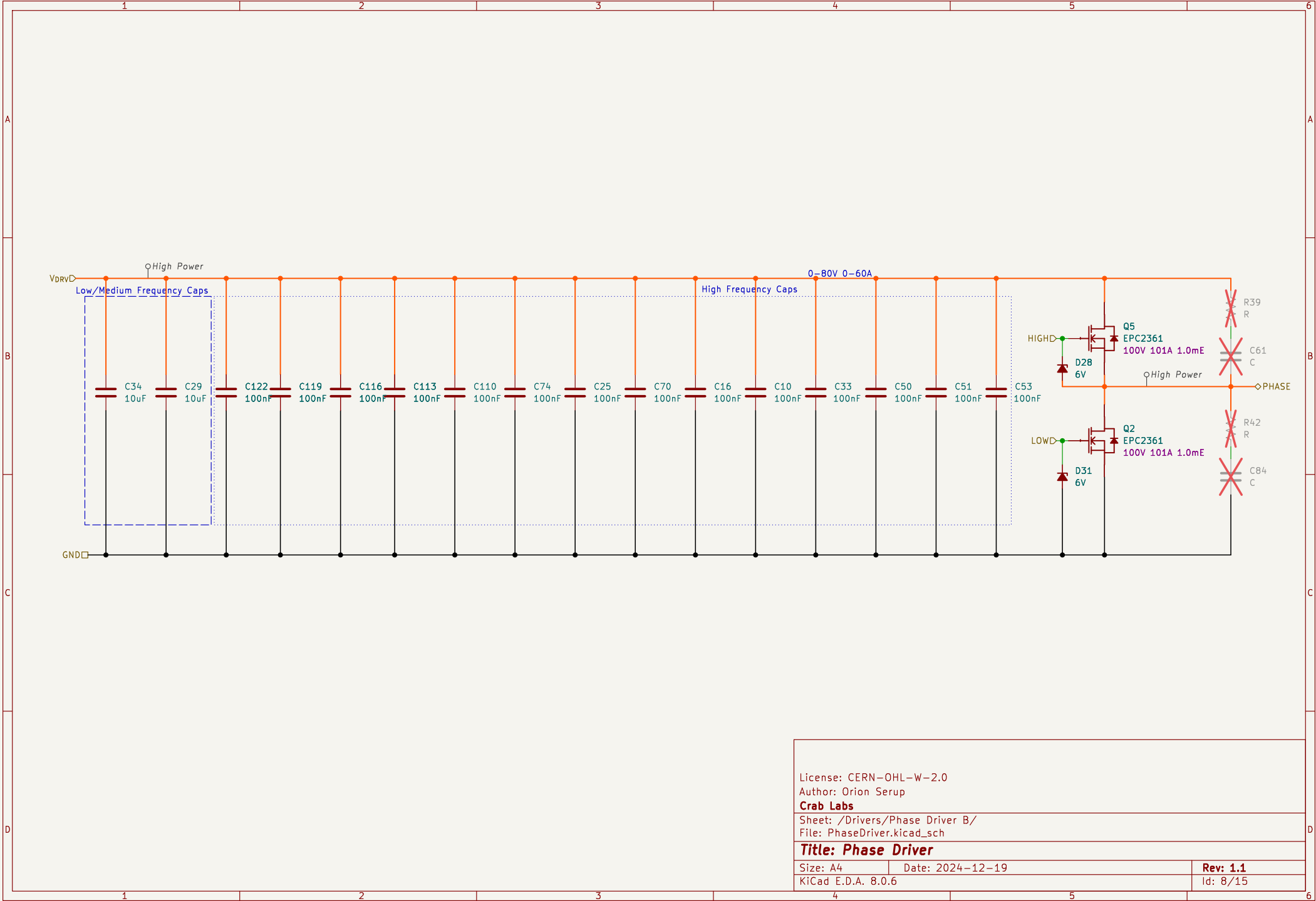
Rev: 1.1

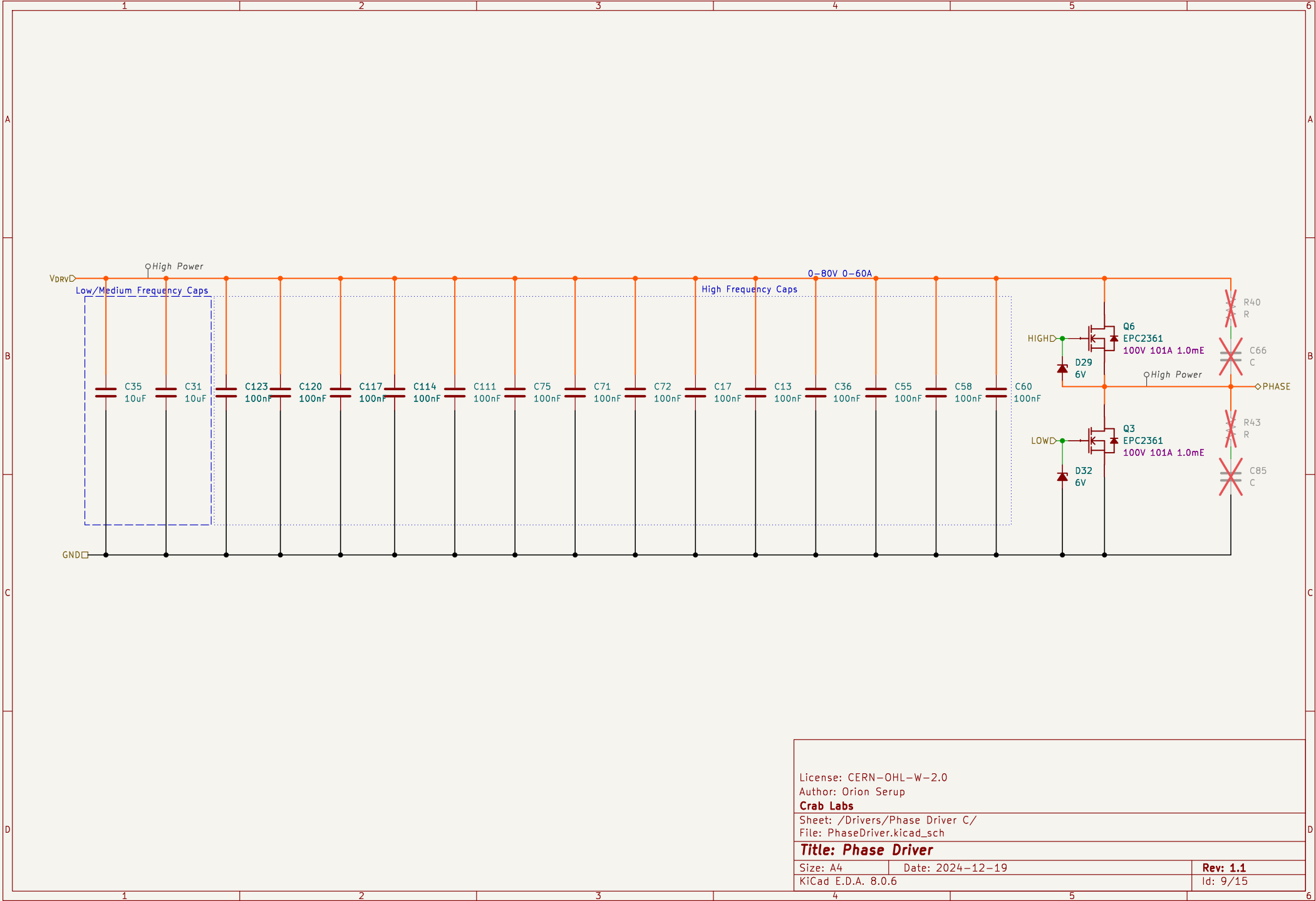
KiCad E.D.A. 8.0.6

Id: 5/15



Id: 7/15





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Sheet: /Drivers/Phase Driver C/

File: PhaseDriver.kicad_sch

Title: Phase Driver

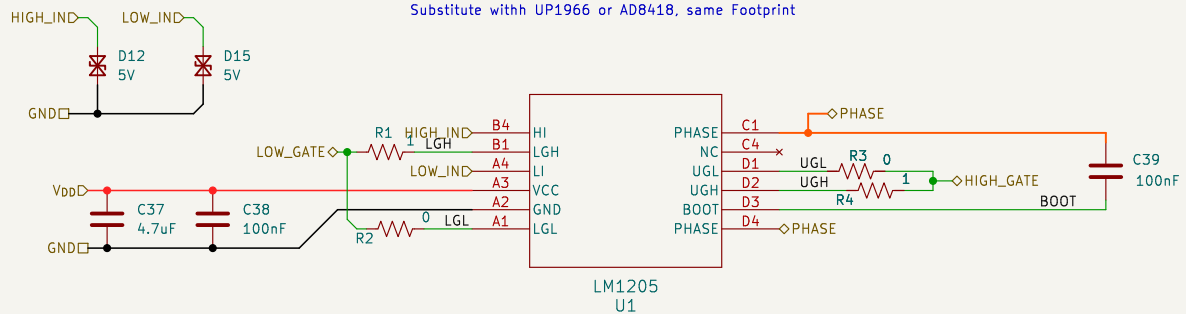
Size: A4

Date: 2024-12-19

Rev: 1.1

KiCad E.D.A. 8.0.6

Id: 9/15



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Author: Orion Serup

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Sheet: /Predrivers/Gate Driver A/

File: GateDriver.kicad_sch

Title: Gate Driver

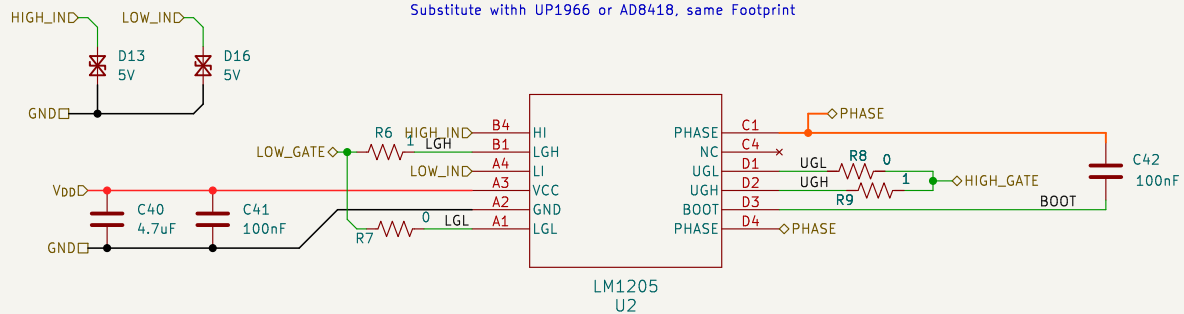
Size: A5

Date: 2024-12-19

KiCad E.D.A. 8.0.6

Rev: 1.1

Id: 10/15



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Sheet: /Predrivers/Gate Driver B/

File: GateDriver.kicad_sch

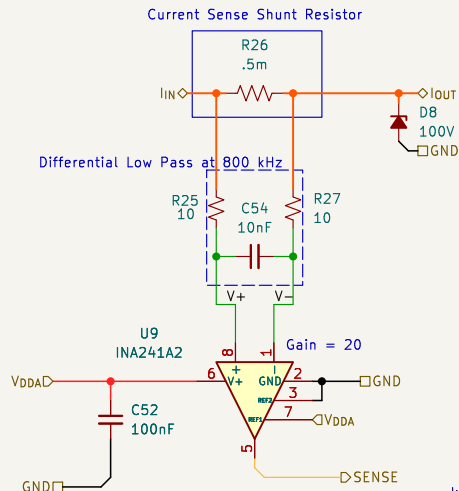
Title: Gate Driver

Size: A5 Date: 2024-12-19

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Rev: 1.1

Id: 11/15



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Sheet: /Phase Current Sensors/Current Sense B/

File: ISense.kicad_sch

Title: Current Sense Amplifier

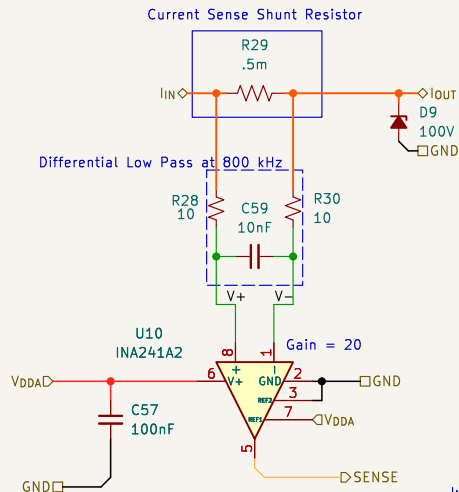
Size: A5

Date: 2024-12-19

Rev: 1.1

KiCad E.D.A. 8.0.6

Id: 17/15



$$V_{SENSE} = V_{REF} + I_{SHUNT} * .01$$

$$I_{MAX} = 165A, I_{MIN} = -165A, V_{DDA} = 3.3V, V_{REF} = 1.65$$

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Sheet: /Phase Current Sensors/Current Sense C/

File: ISense.kicad_sch

Title: Current Sense Amplifier

Size: A5

Date: 2024-12-19

Rev: 1.1

KiCad E.D.A. 8.0.6

Id: 18/15