

Heating subgroup
Project Group B – MOD 11

Sheet: /
 File: HeatingBoard.kicad_sch

Title: Heating Control Board

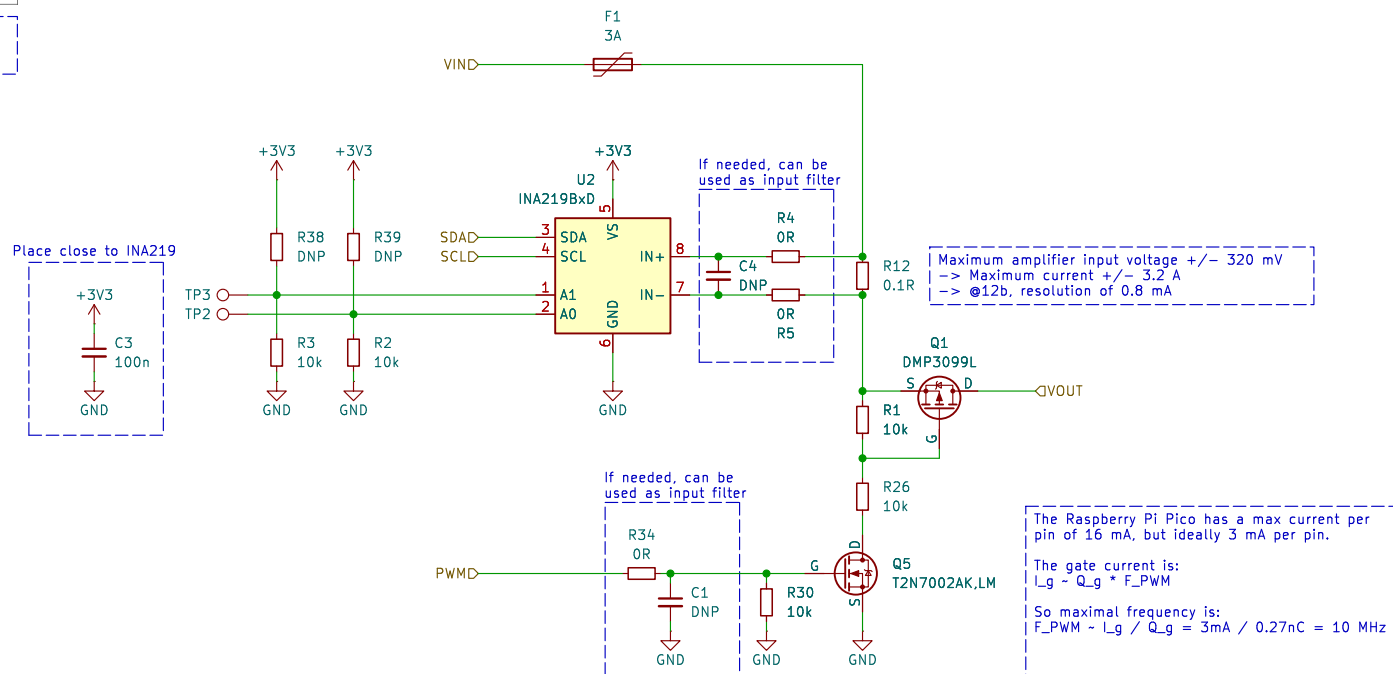
Size: A4 Date: 2025-03-20
 KiCad E.D.A. 8.0.6

Rev: V1
 Id: 1/5

Table 1. INA219 Address Pins and Slave Addresses

A1	A0	SLAVE ADDRESS
GND	GND	1000000
GND	V _{DD}	1000001
GND	SDA	1000010
GND	SCL	1000011
V _{DD}	GND	1000100
V _{DD}	V _{DD}	1000101
V _{DD}	SDA	1000110
V _{DD}	SCL	1000111
SDA	GND	1001000
SDA	V _{DD}	1001001
SDA	SDA	1001010
SDA	SCL	1001011
SCL	GND	1001100
SCL	V _{DD}	1001101
SCL	SDA	1001110
SCL	SCL	1001111

The table above shows how to connect A1 and A0 to get a corresponding I2C address.



Heating subgroup

Project Group B – MOD 11

Sheet: /Channel1/

File: Channel.kicad_sch

Title: Current sensor + switch

Size: A4

Date: 2025-03-20

Rev: V1

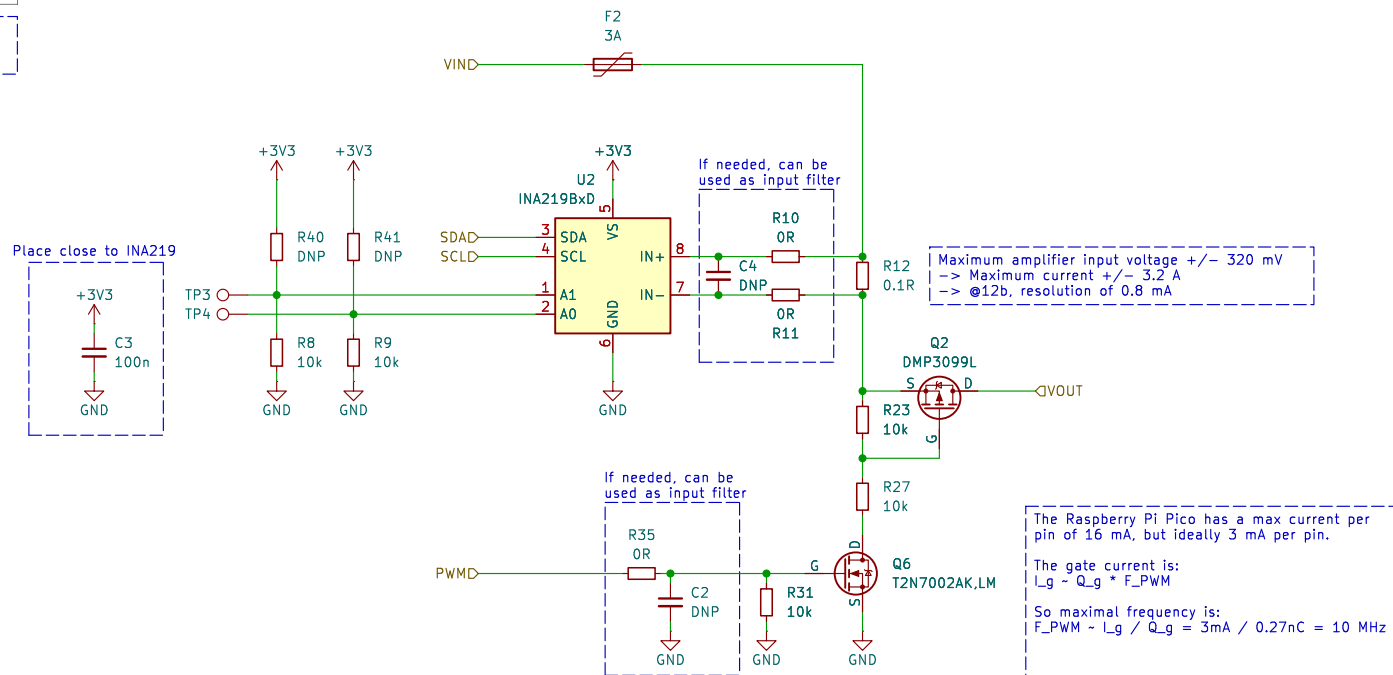
KiCad E.D.A. 8.0.6

Id: 2/5

Table 1. INA219 Address Pins and Slave Addresses

A1	A0	SLAVE ADDRESS
GND	GND	1000000
GND	V _{DD}	1000001
GND	SDA	1000010
GND	SCL	1000011
V _{DD}	GND	1000100
V _{DD}	V _{DD}	1000101
V _{DD}	SDA	1000110
V _{DD}	SCL	1000111
SDA	GND	1001000
SDA	V _{DD}	1001001
SDA	SDA	1001010
SDA	SCL	1001011
SCL	GND	1001100
SCL	V _{DD}	1001101
SCL	SDA	1001110
SCL	SCL	1001111

The table above shows how to connect A1 and A0 to get a corresponding I2C address.



Heating subgroup

Project Group B – MOD 11

Sheet: /Channel2/

File: Channel.kicad_sch

Title: Current sensor + switch

Size: A4

Date: 2025-03-20

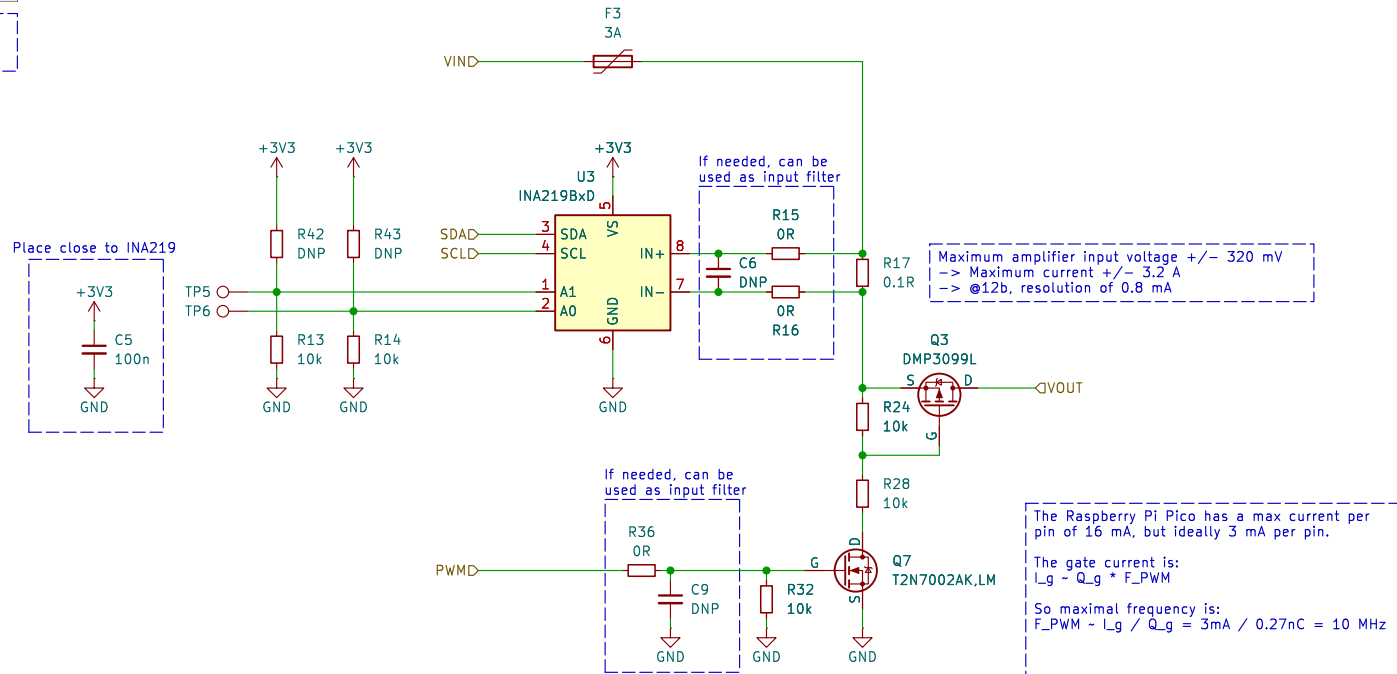
Rev: V1

KiCad E.D.A. 8.0.6

Id: 3/5

A1	A0	SLAVE ADDRESS
GND	GND	1000000
GND	V _{SS}	1000001
GND	SDA	1000010
GND	SCL	1000011
V _{SS}	GND	1000100
V _{SS}	V _{SS}	1000101
SDA	SDA	1000110
SCL	V _{SS}	1000111
SDA	GND	1001000
SDA	V _{SS}	1001001
SDA	SDA	1001010
SDA	SCL	1001011
SCL	GND	1001100
SCL	V _{SS}	1001101
SCL	SDA	1001110
SCL	SCL	1001111

The table above shows how to connect A1 and A0 to get a corresponding I2C address.

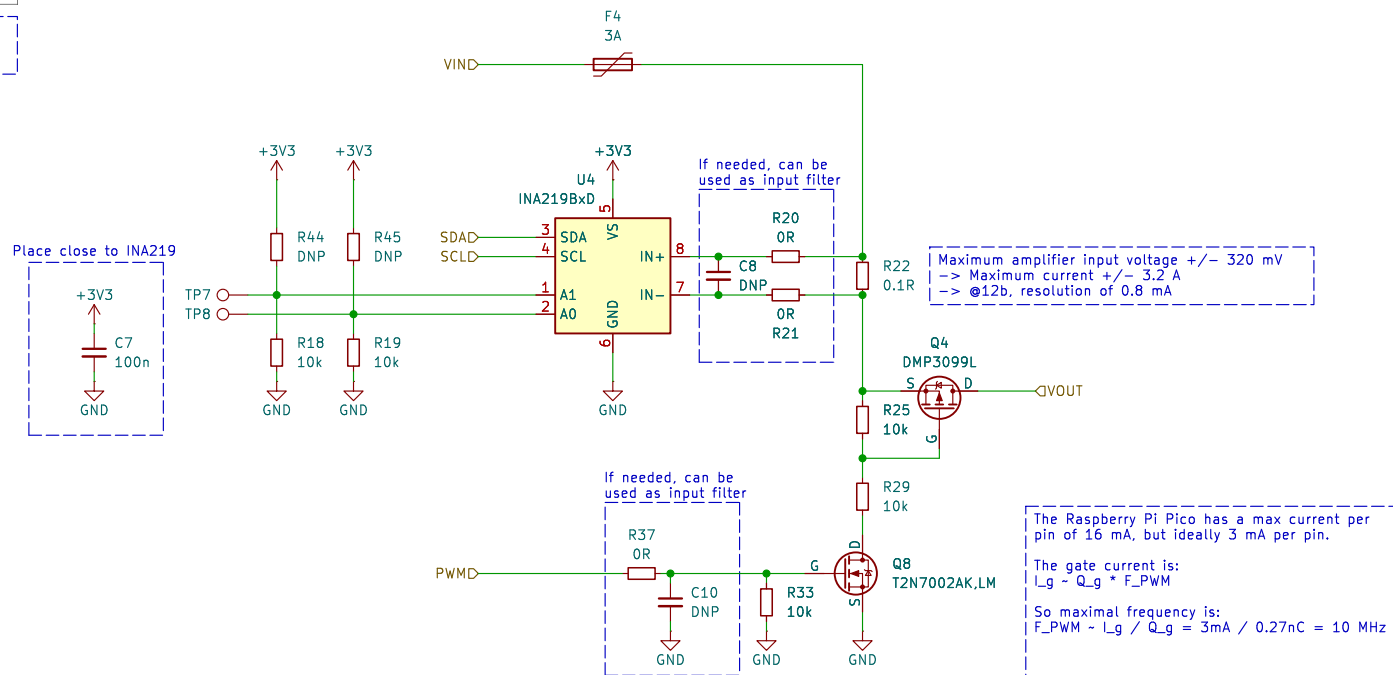


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Table 1. INA219 Address Pins and Slave Addresses

A1	A0	SLAVE ADDRESS
GND	GND	1000000
GND	V _{DD}	1000001
GND	SDA	1000010
GND	SCL	1000011
V _{DD}	GND	1000100
V _{DD}	V _{DD}	1000101
V _{DD}	SDA	1000110
V _{DD}	SCL	1000111
SDA	GND	1001000
SDA	V _{DD}	1001001
SDA	SDA	1001010
SDA	SCL	1001011
SCL	GND	1001100
SCL	V _{DD}	1001101
SCL	SDA	1001110
SCL	SCL	1001111

The table above shows how to connect A1 and A0 to get a corresponding I2C address.



Heating subgroup

Project Group B – MOD 11

Sheet: /Channel4/

File: Channel.kicad_sch

Title: Current sensor + switch

Size: A4

Date: 2025-03-20

Rev: V1

KiCad E.D.A. 8.0.6

Id: 5/5