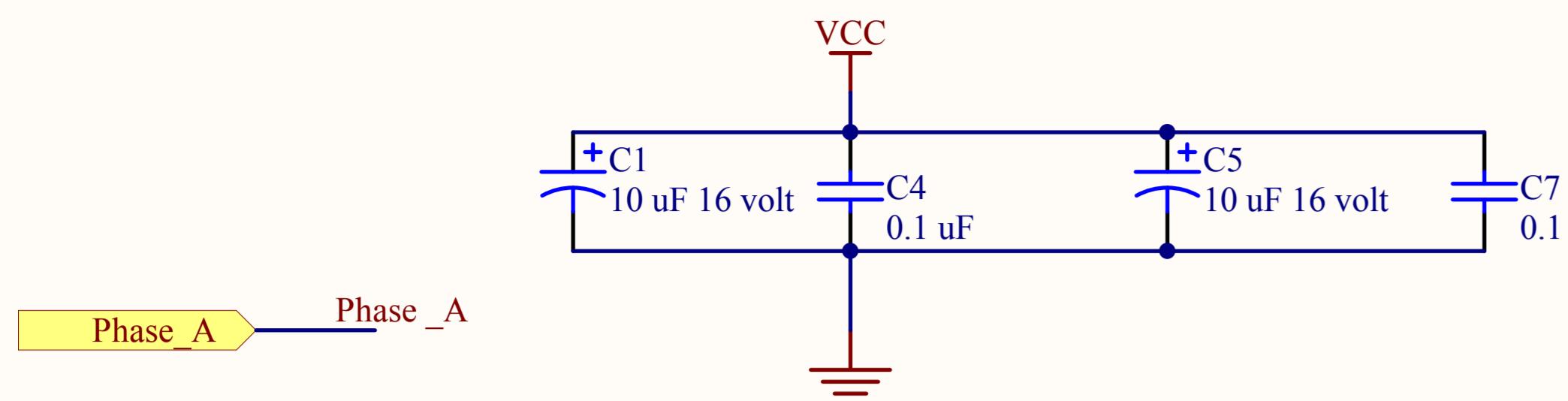


R34, R35, R36, R37 (4.7K) pull-down resistors are required in order to avoid the output transistors to turn on during power up or in case the translator circuit is not connected to the board, and during the microcontroller initialization stage after reset or power up. +12 volt must be present before powering up the +Vmotor power supply.

For 8 Amp option use 2 Oz copper FR4 pcb or beefup with solder the PCB traces corresponding with the coil connections and +Vmotor. Replace also the 10 Amp slow Blow fuse by 20 Amp Slow Blow Fuse. 10 Amp fuse has been calculated for 4 Amp peak coil current. Keep the Sensor resistor's bodies separated from the PCB board by at least 1 mm.

Title		
Size		Number
Letter		Revision
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Date:	3/18/2007	Sheet of 1/4
File:	C:\Program Files\...\Input-Power.SchDoc	Drawn By: KREUTZ

A



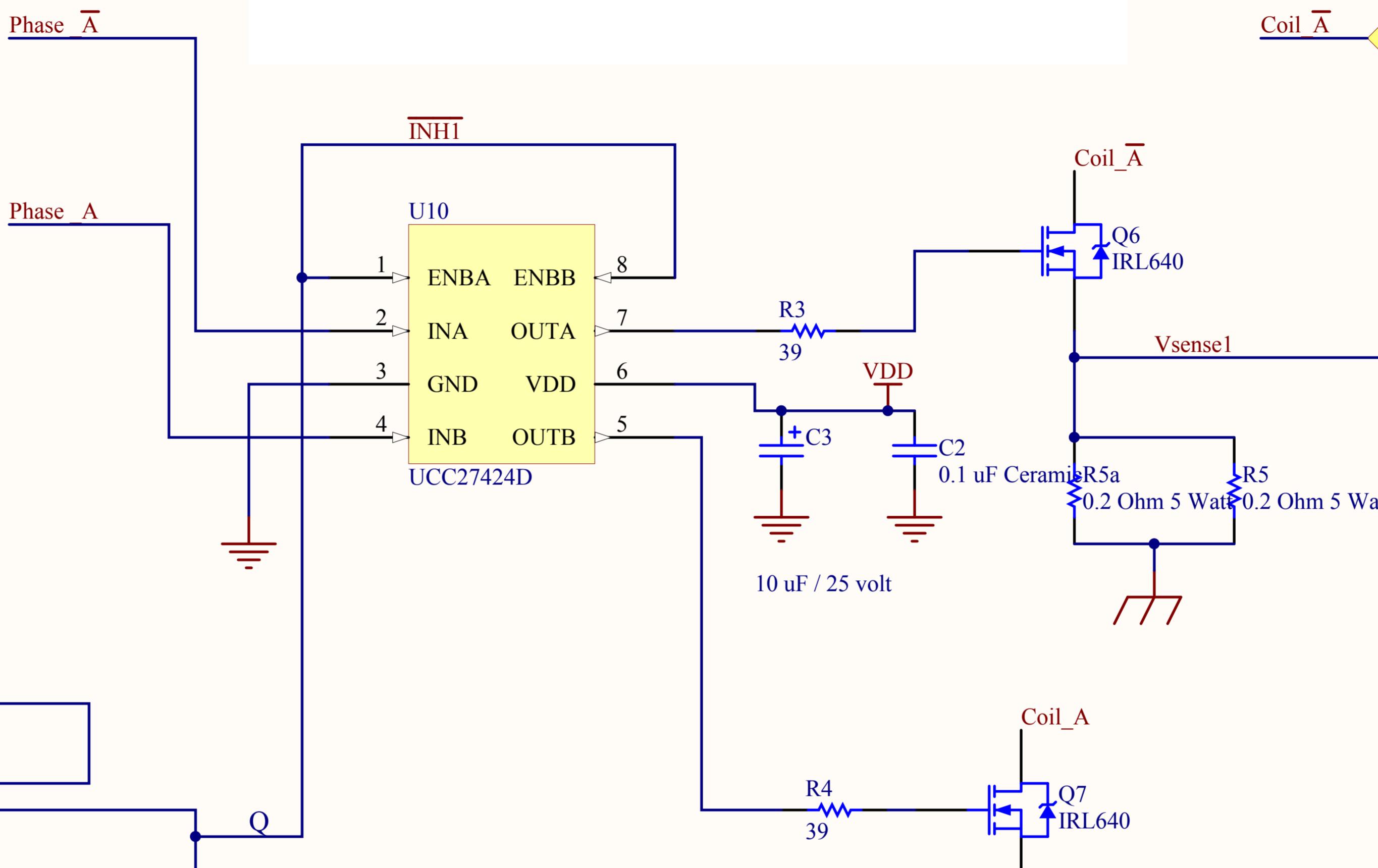
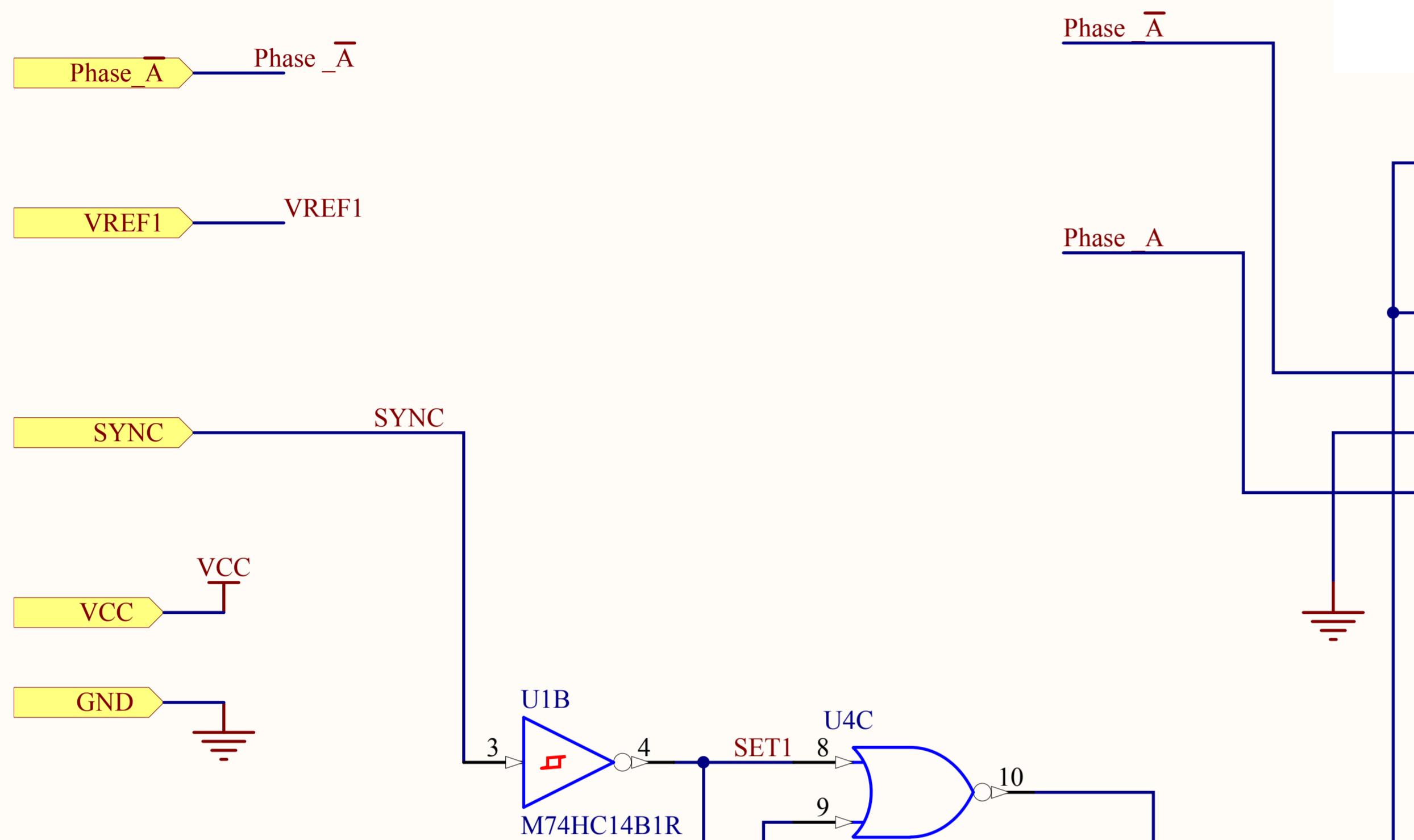
Use IRL540N logic input power MOSFETS for VMotor <<40 Volts. When using 40-80 VDC power supply use alternative 200 Volt logic input Mosfet IRL640

Coil_A → COIL_A

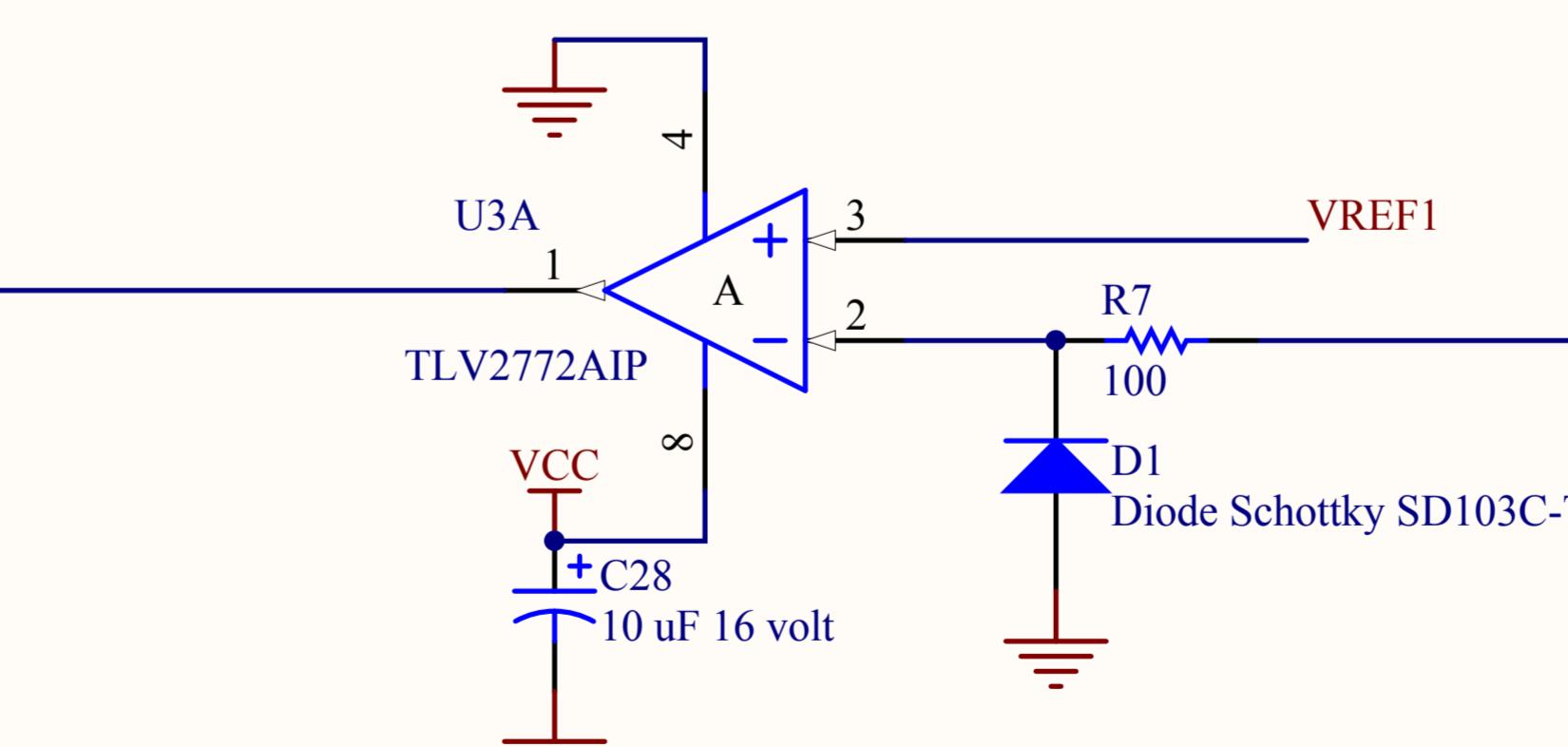
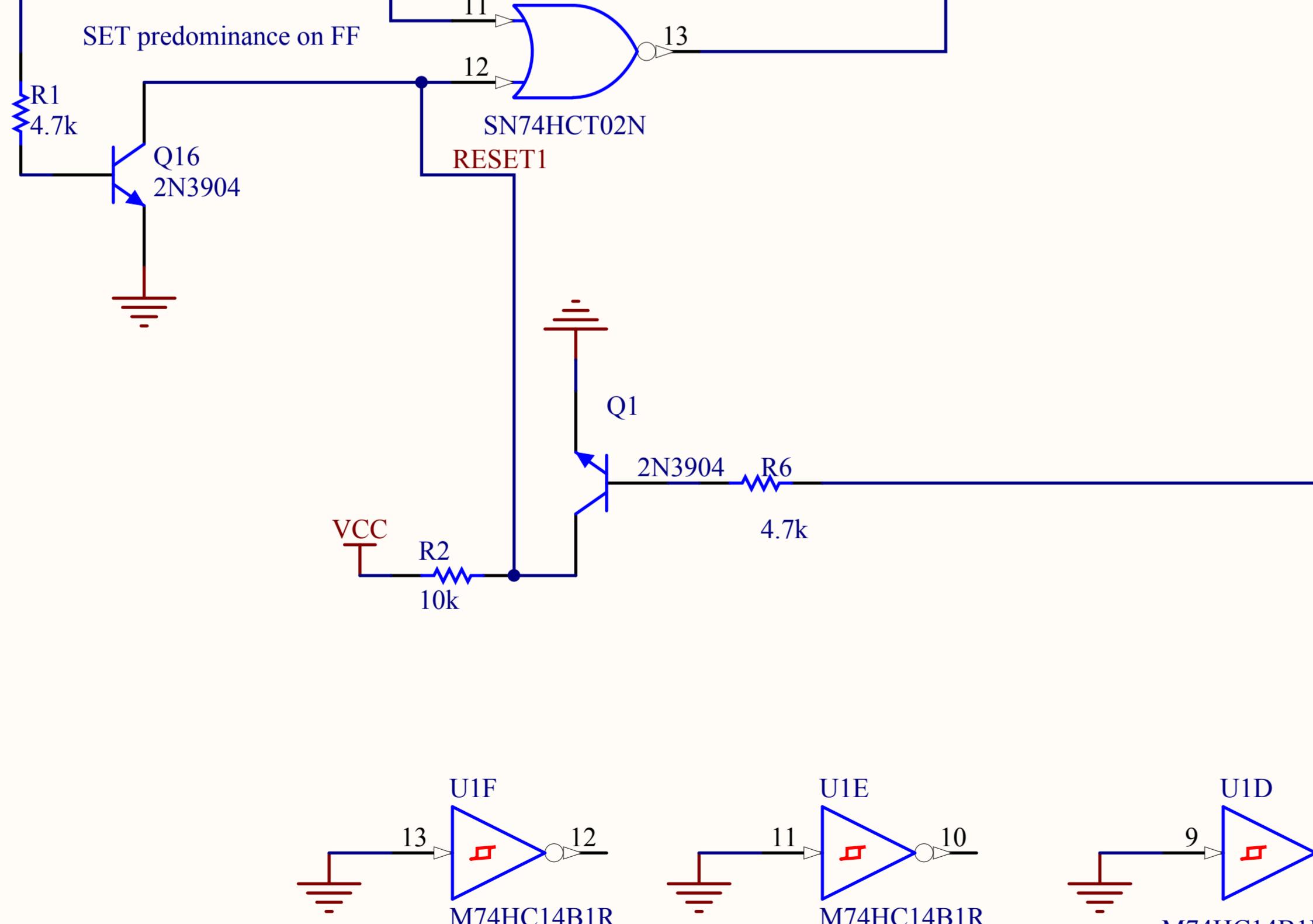
The 39 ohm (1/8 watt) gate resistor value is subject to change depending on Turn-on and Turn-off times of the chosen mosfet, a resistor is often necessary in order to suppress ringing

Coil_A-bar → COIL_A-bar

B

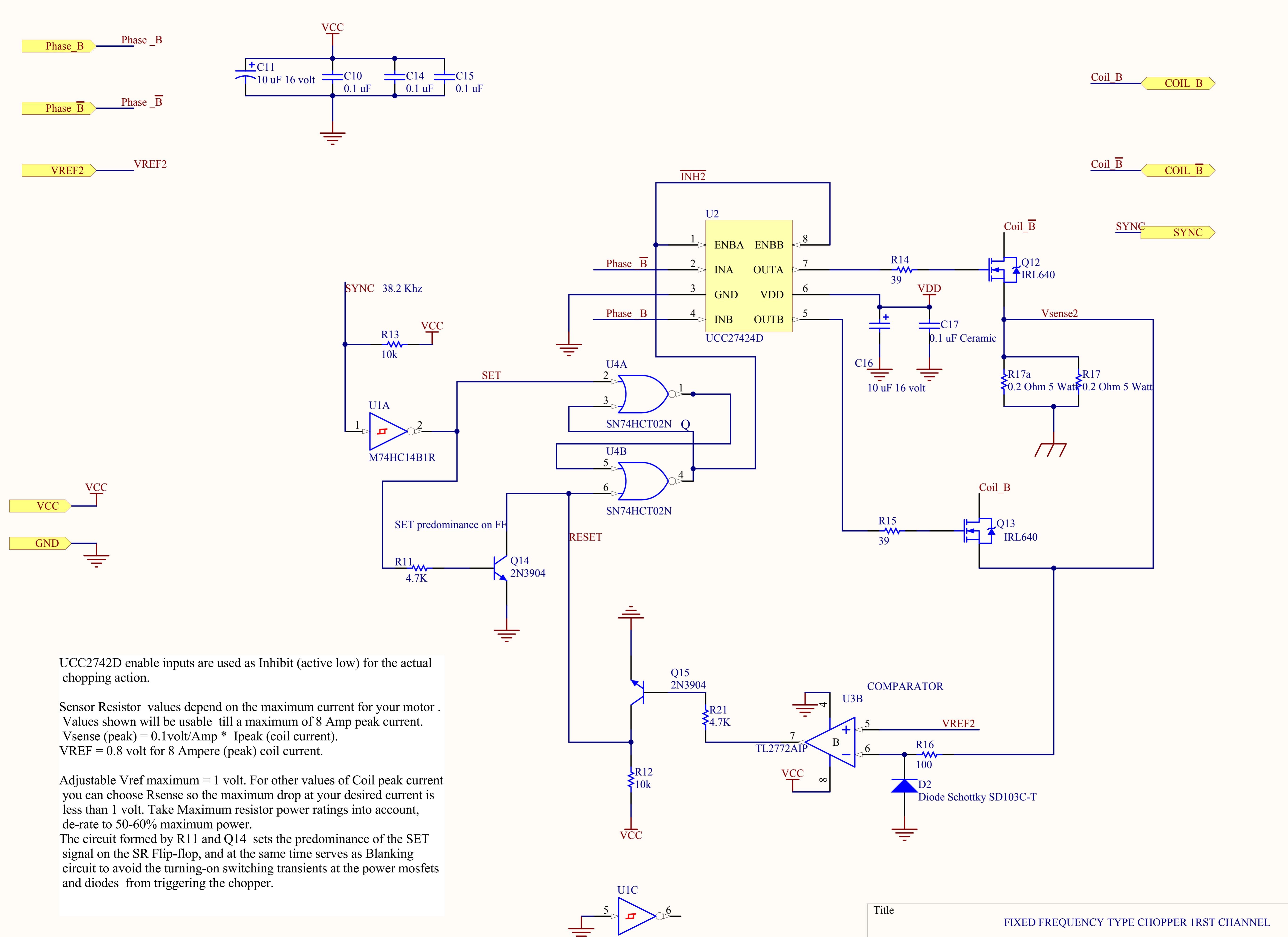


C



D

Title		
Size	Number	Revision
Letter		2.1e
Date:	3/18/2007	Sheet of 3/4
File:	C:\Program Files\..\Chopper_A.SchDoc	Drawn By: KREUTZ



Title		
Size		Number
Letter		Revision
		2.1e
Date:	3/18/2007	Sheet of 2 / 4
File:	C:\Program Files\..\Chopper_B.SchDoc	Drawn By: KREUTZ

