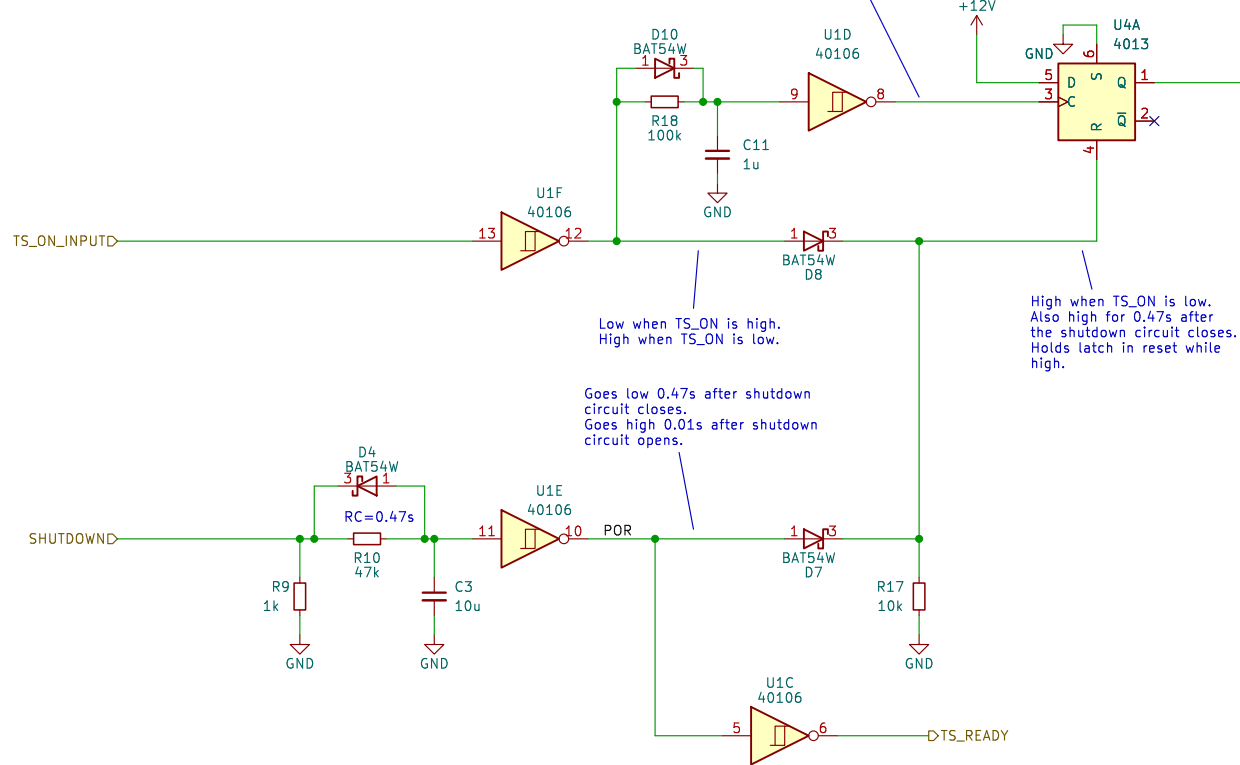


Rules:

- The TS should never be enabled if TS_ON is low
- The TS should only be enabled after a rising edge of the TS_ON input. Whenever the shutdown circuit is opened, the TS should remain off until a rising edge is detected.

Goes high 0.1s after TS_ON goes high. Goes low immediately after TS_ON goes low. Rising edge here turns latch on, unless it's held in reset. Delay required to ensure rising edge happens after reset goes low.



For this to go high, the following must be true:

- TS_ON is high (else the latch will be in reset).
- The shutdown loop has been closed for at least 0.47s (else the latch will be in reset).
- A rising edge on TS_ON has been detected at least 0.47s after the shutdown circuit was last open.

This last point guarantees rule EV4.11.4 (FSUK 2024)

Close the +ve AIR when the TS is enabled and the inverter commands main contactor closed

Close the -ve AIR when the TS is enabled

Close the pre-charge relay when the TS is enabled and the inverter commands it closed

