



# No guts no glory

Wim Platschorre  
20 juni 2017  
2

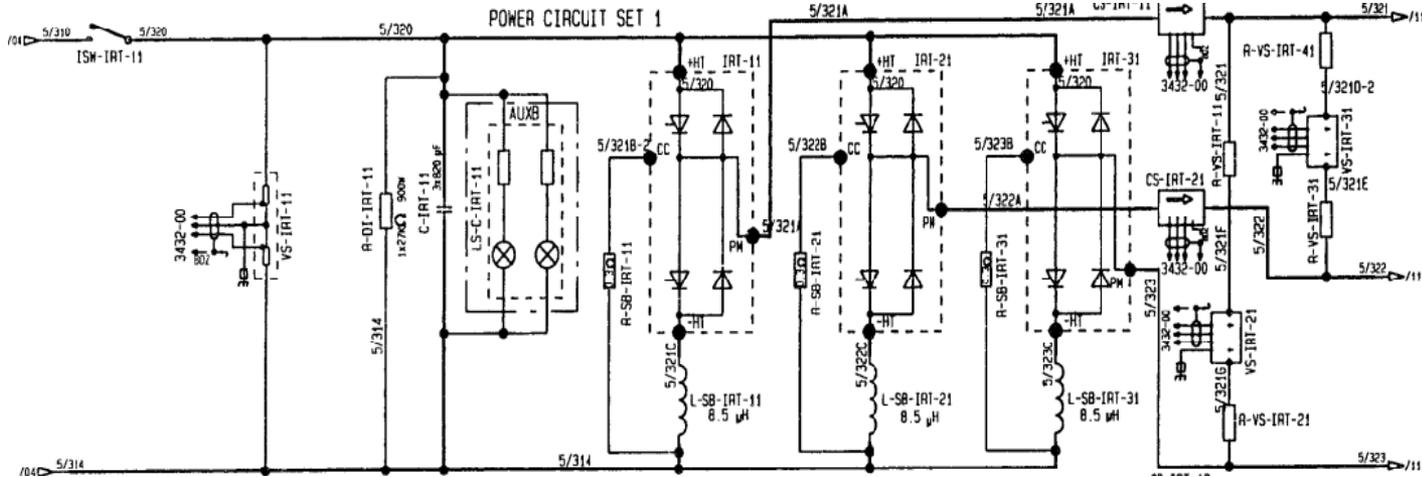
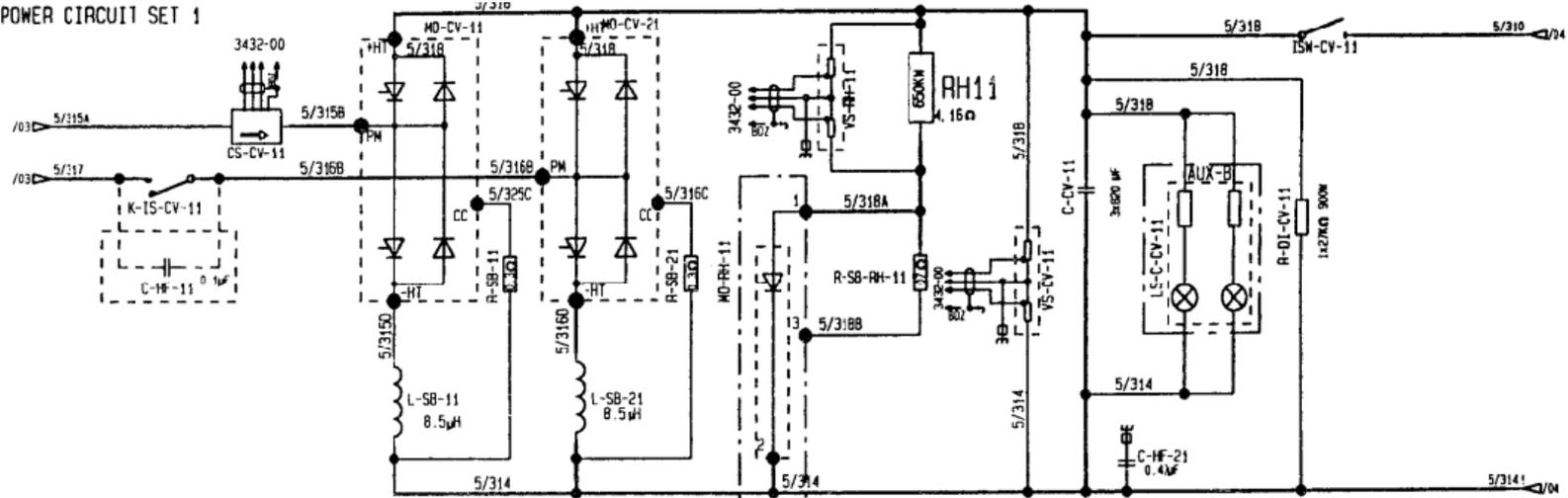


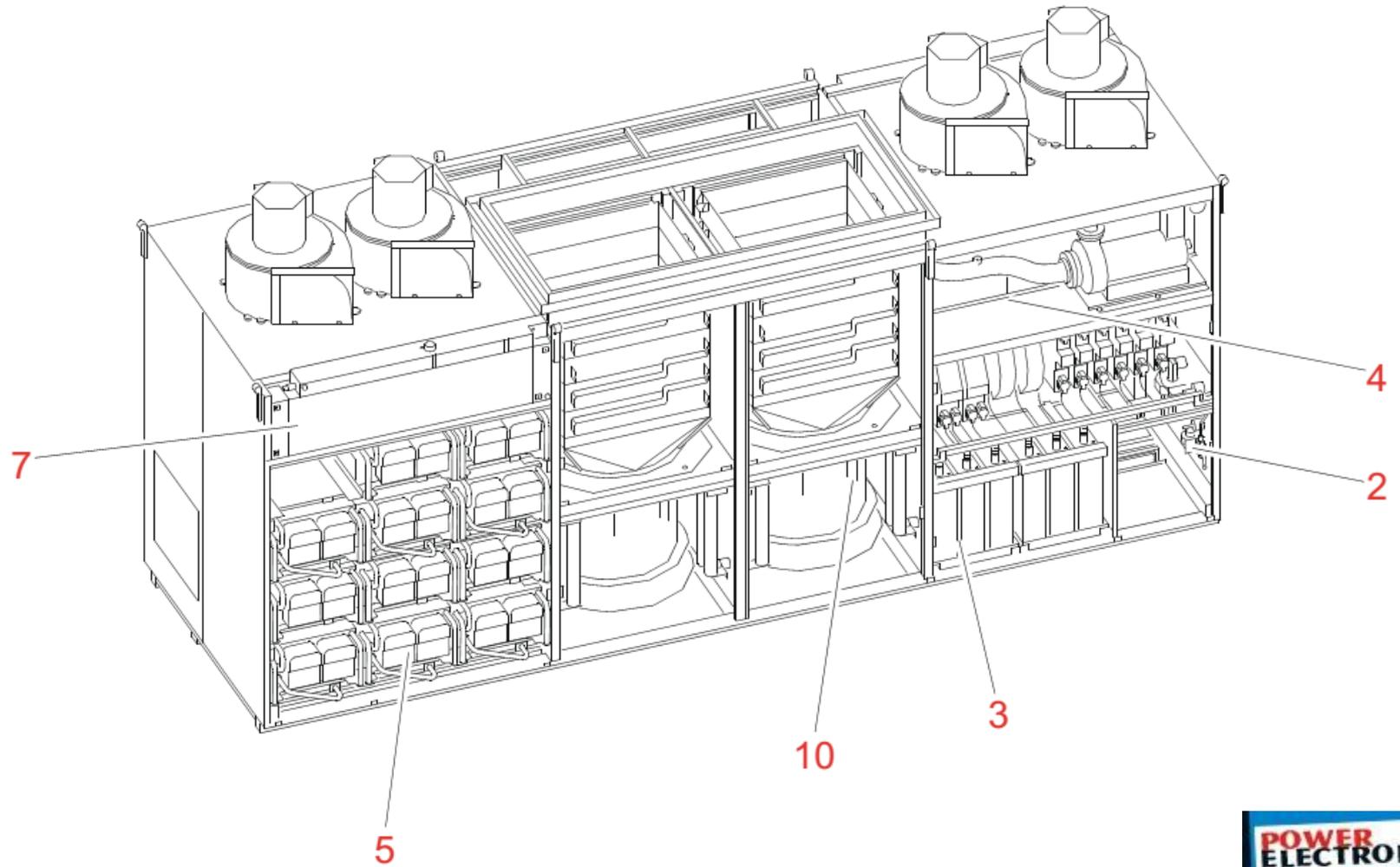
## LOCOMOTIVE PERFORMANCE

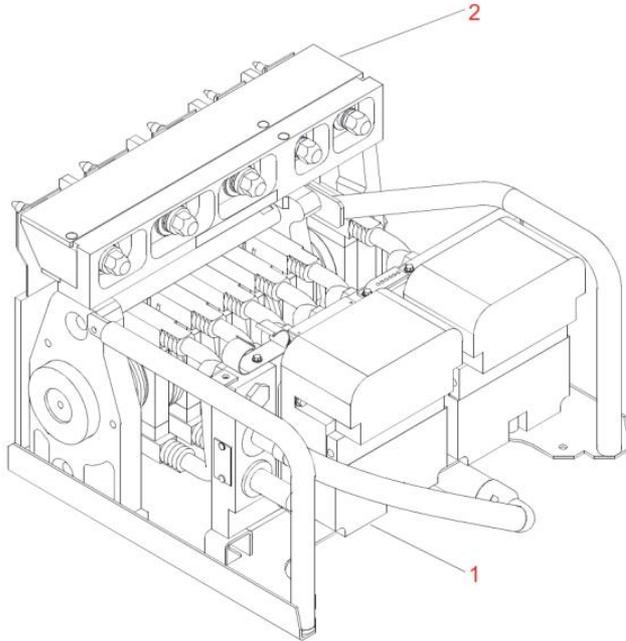
Metric

- Starting traction effort 316 kN
- Tractive effort at continuous rating 250 kN
- Continuous power rating 6000 kW
- Maximum operating speed 200 km/h
- Maximum design speed 217 km/h
- Acceleration rates:
  - 1 locomotive and 8 cars
    - 5 miles in 5 minutes
    - 10 miles in 7-1/2 minutes

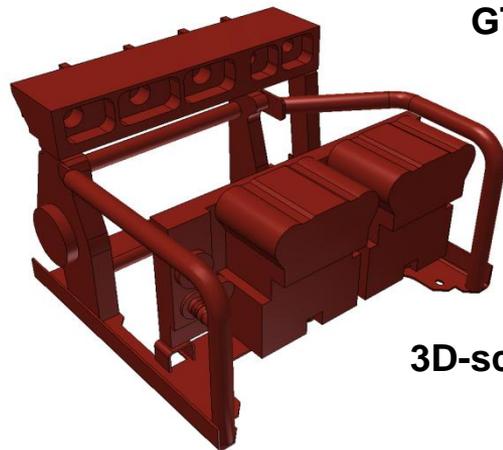
POWER CIRCUIT SET 1



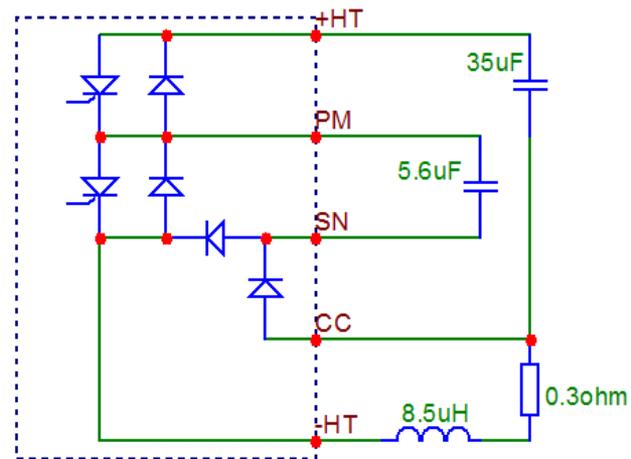


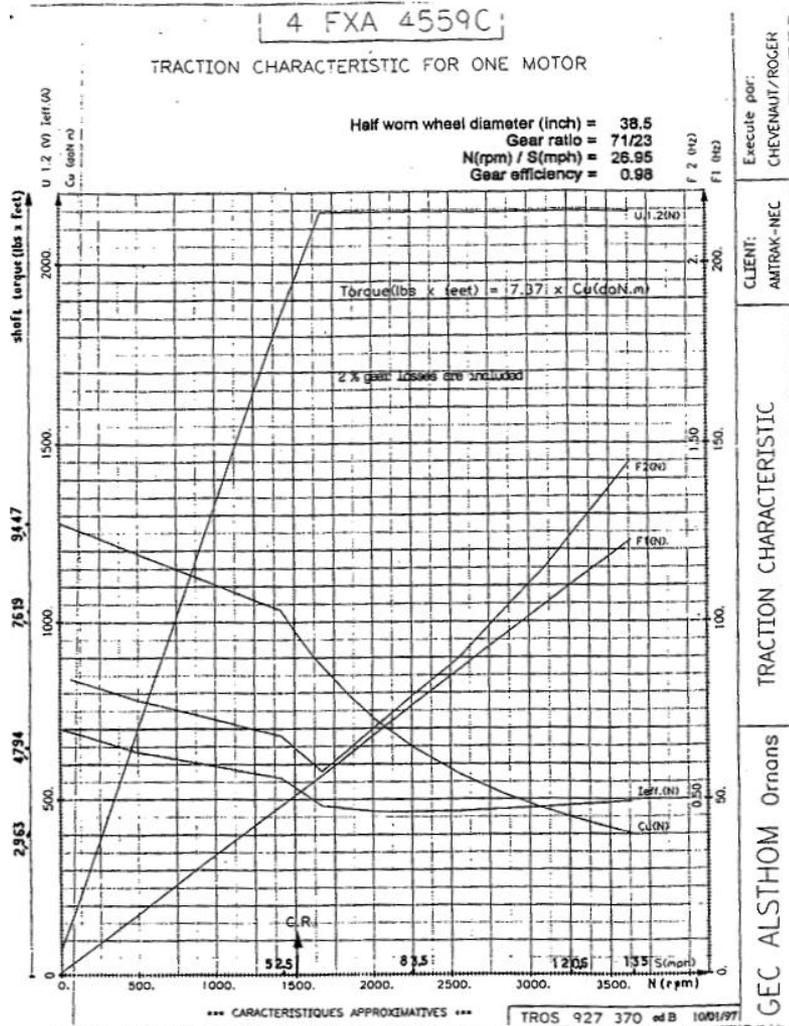


**GTO: 4500V 4000A**

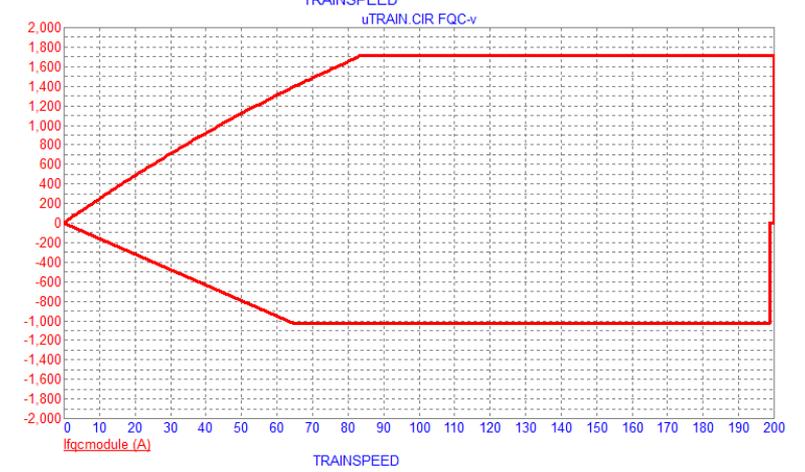
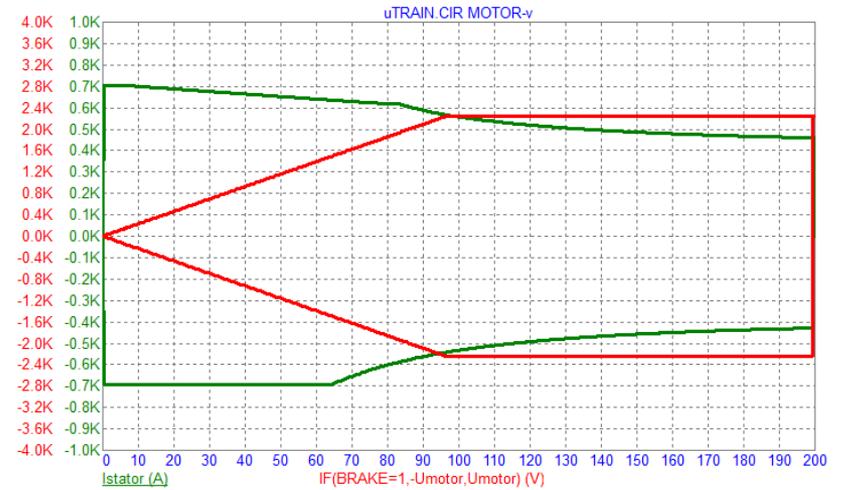


**3D-scan**



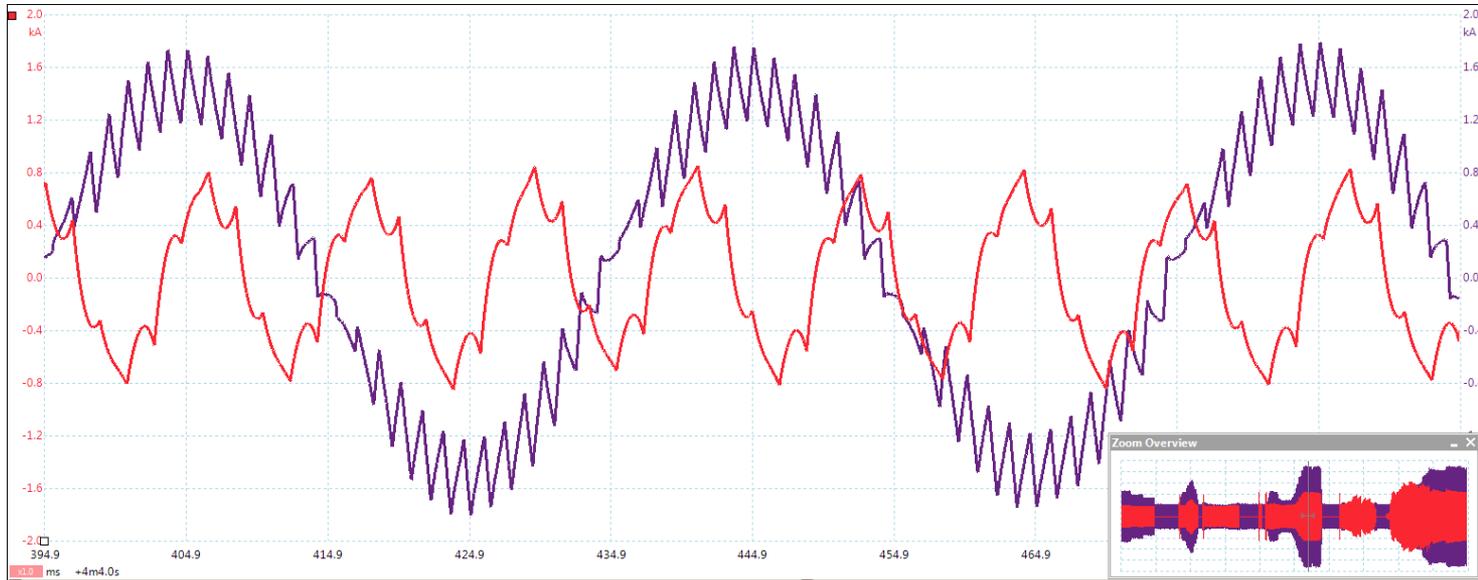


motorgegevens

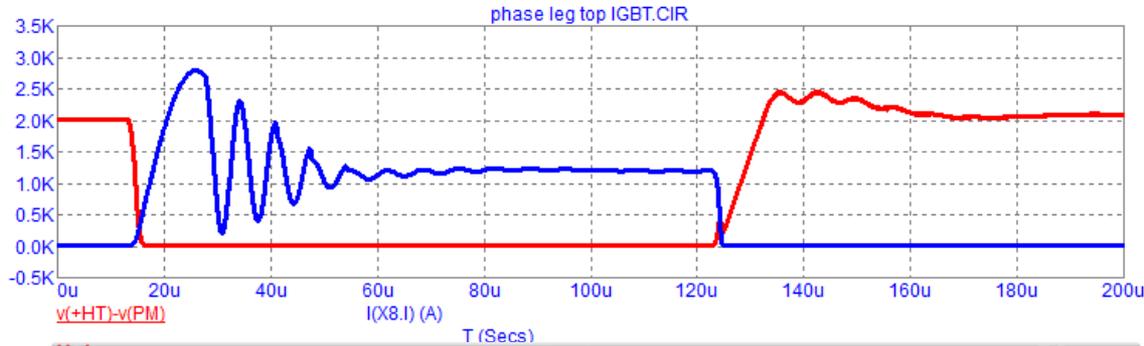




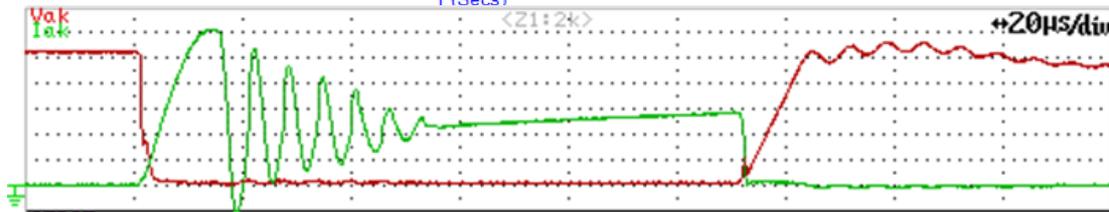
**Rogowski coil**



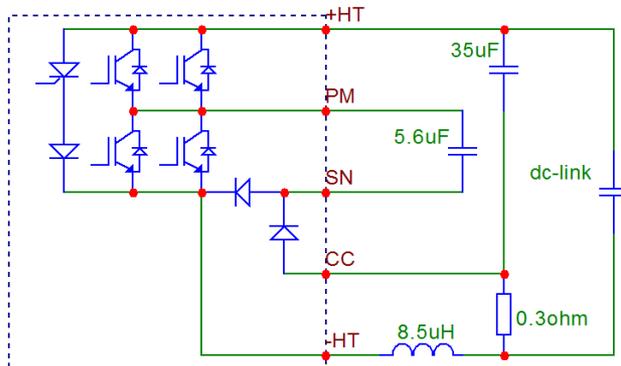
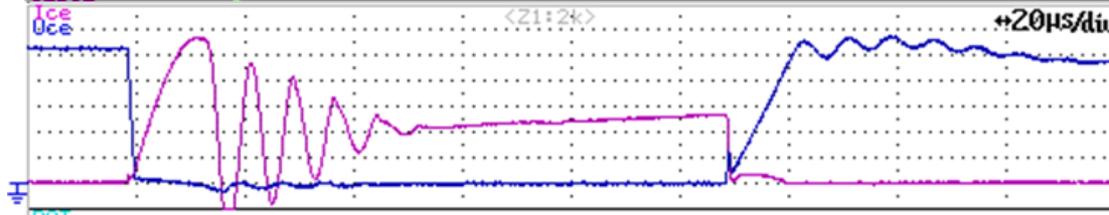
simulatie

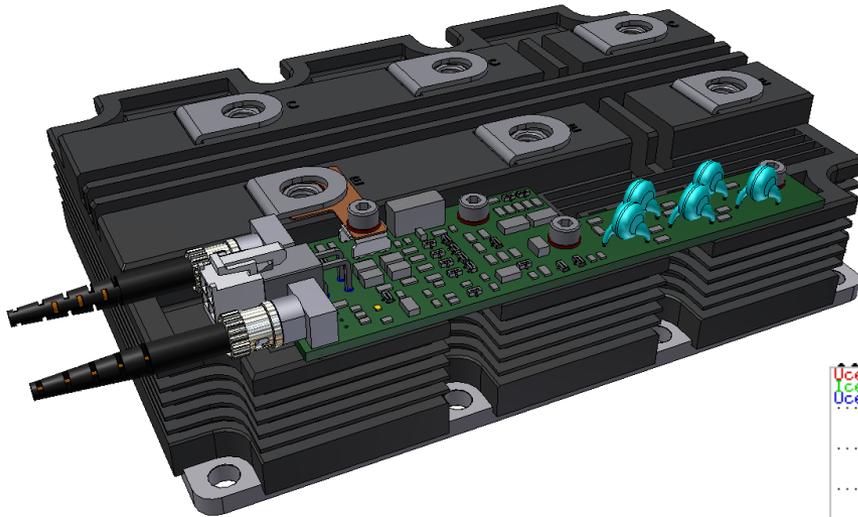


GTO module

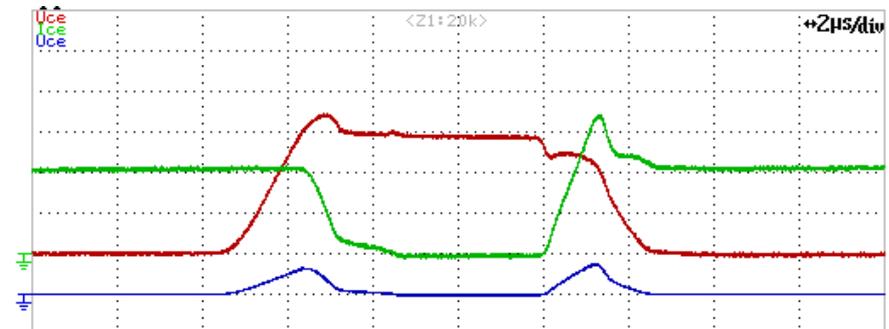


IGBT module

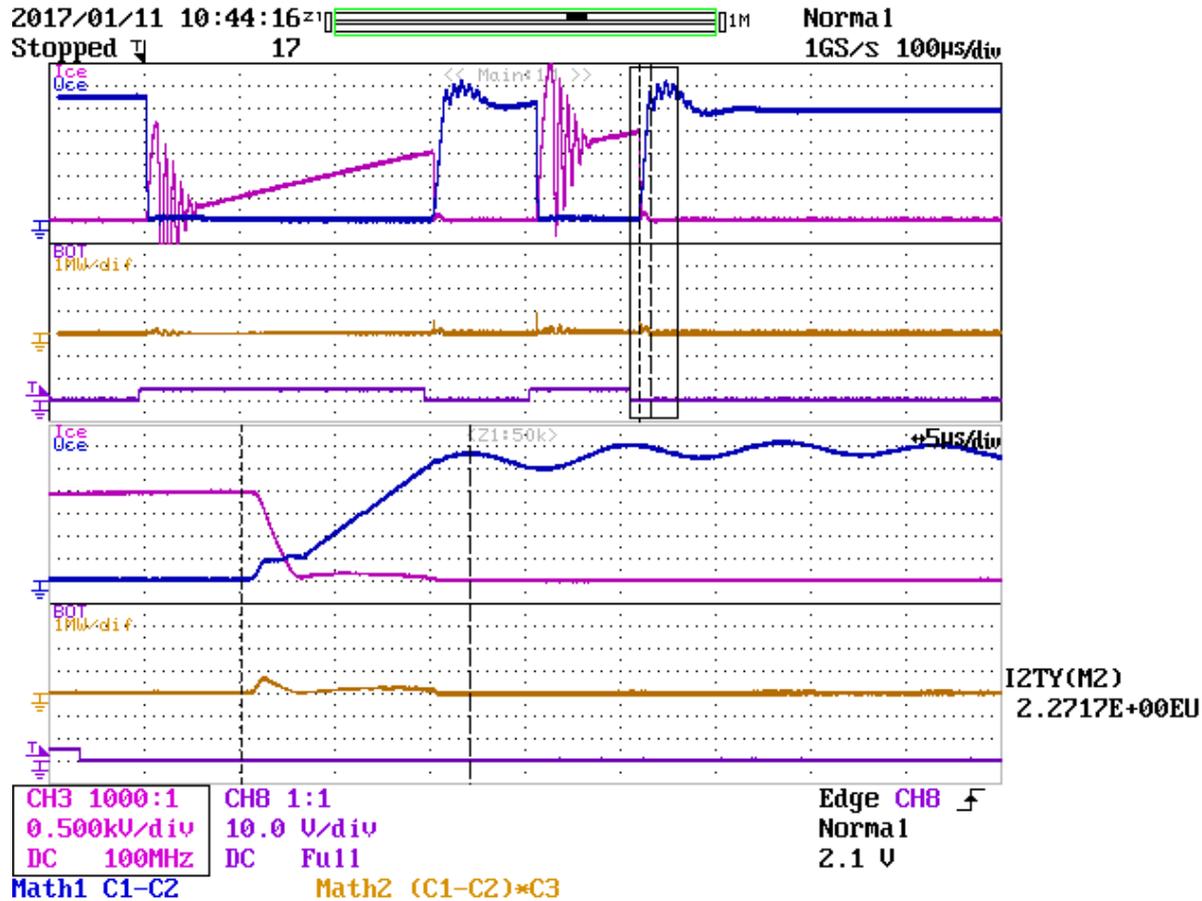




IGBT: 4500V, 1200A

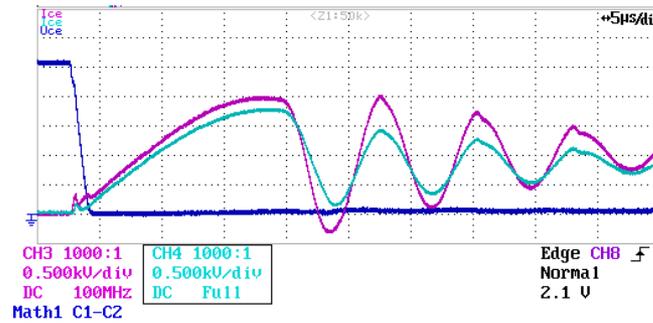


Uit,- en inschakelen zonder snubber  
2kA, 2800V

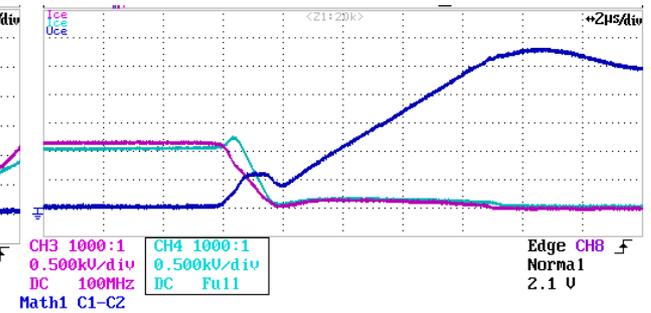


Zonder parallel functie

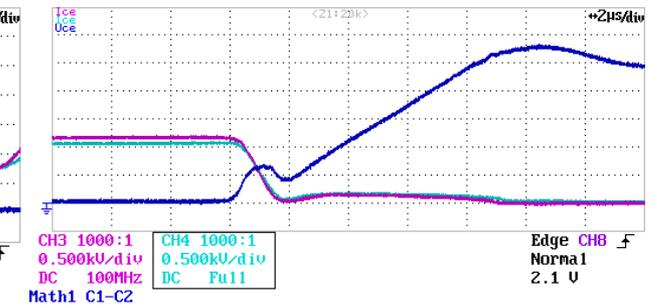
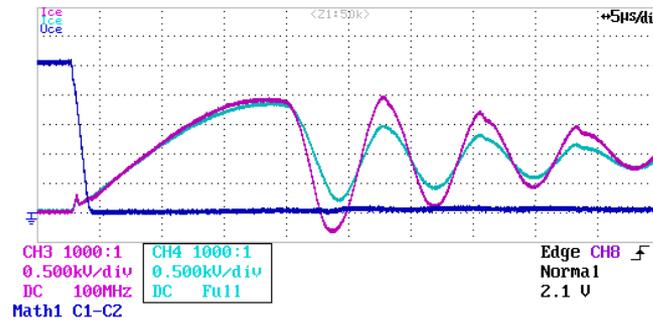
inschakelen

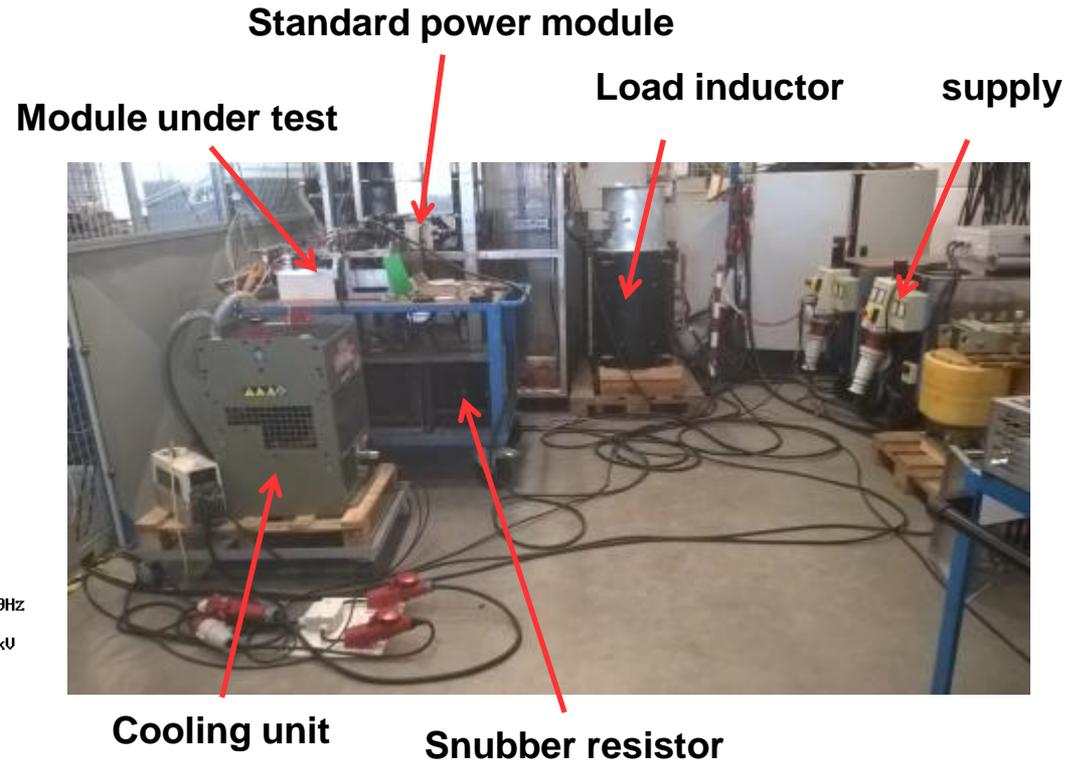
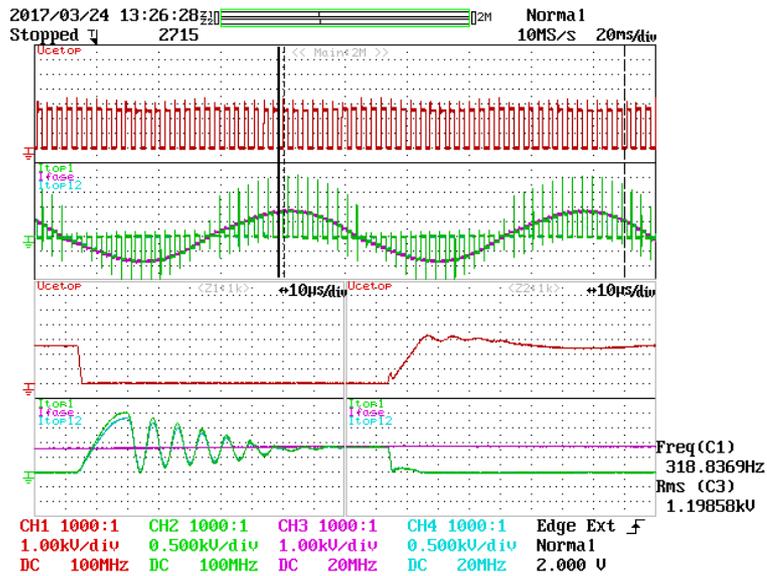


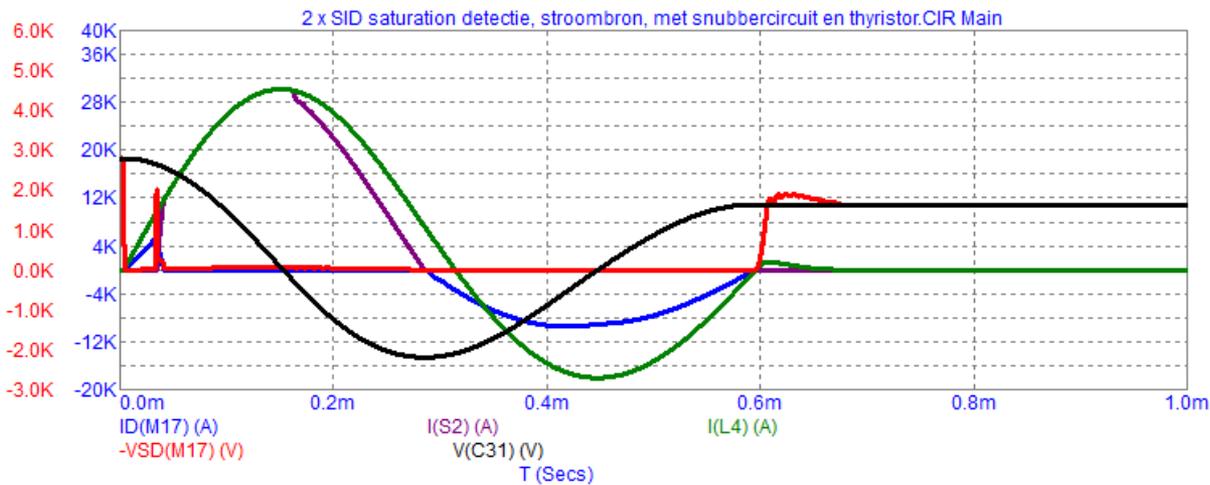
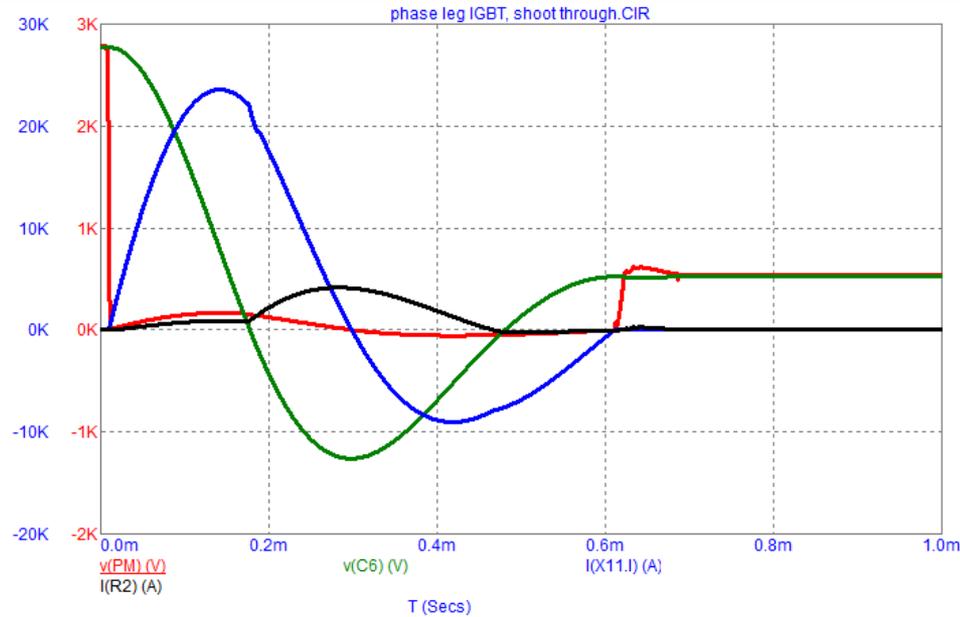
uitschakelen

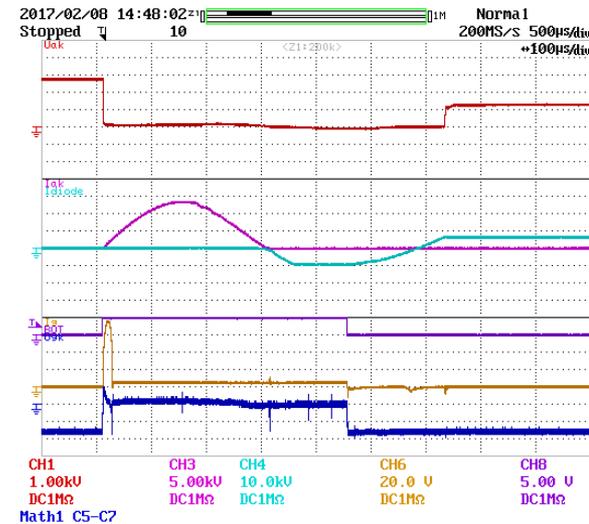
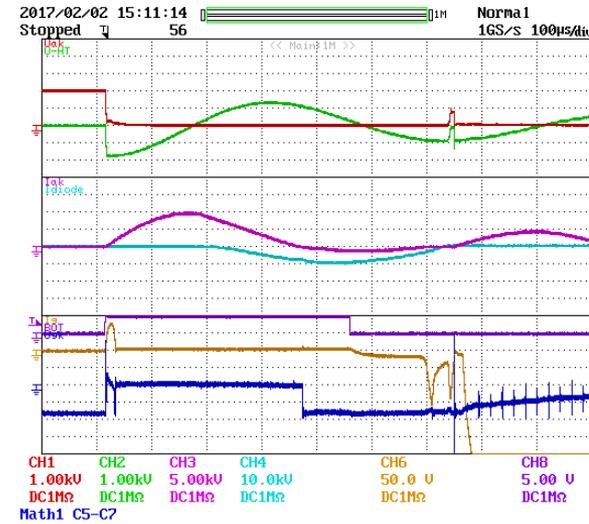
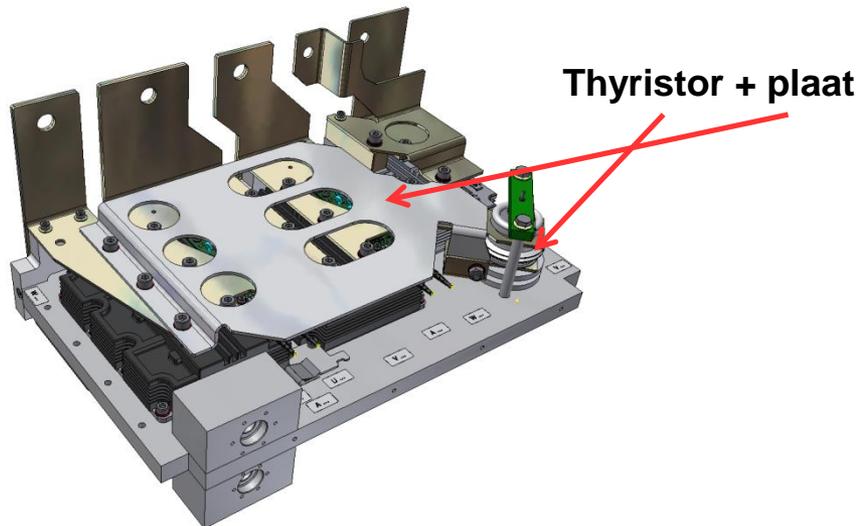
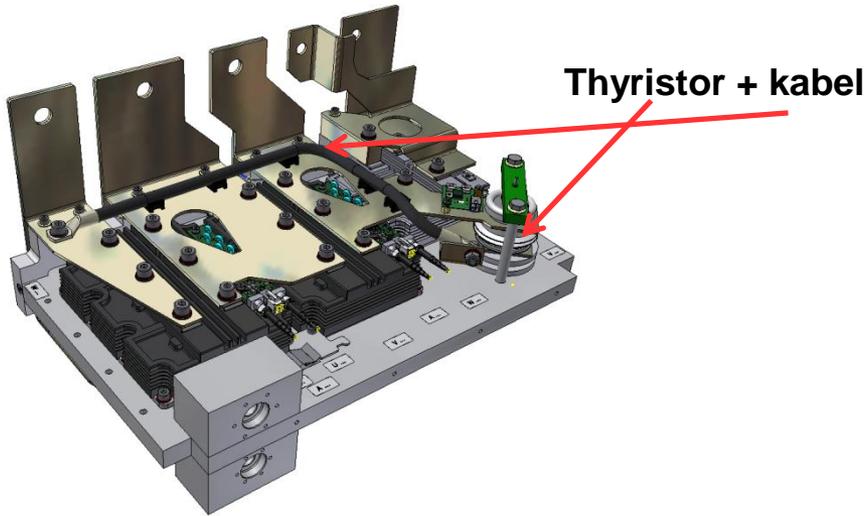


met parallel functie









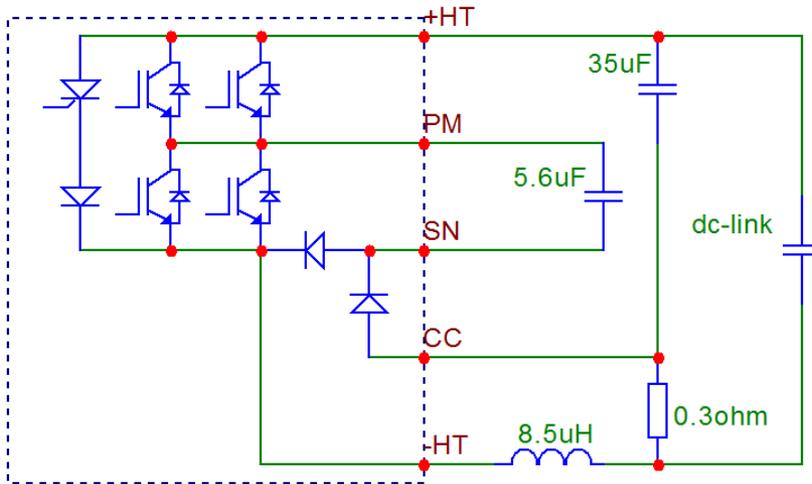
**HOLEC-HH**  
holec machines & apparaten bv

**BEREKENINGSFORMULIER**

offerteopdrachtnr.: _____ project : _____ onderwerp : <i>invoerd parasitaire L op ty-tijd</i>	datum : <i>8/2/14</i> aantal bladen : <i>2</i> bl. <i>1</i> behandeld : <i>PSE</i> gecontroleerd: _____
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gegevens:

- Hoofdstroomaansluiting aan de diode :  
 - thyristor krijgt (bij ideale componenten) geen reverse spanning van bekken's (B-V), belangrijk bij asymmetrische thy's  
 - grotere parasitaire L verslechtert die ty-tijd.



**IGBT: 2 x 4500V, 1200A**

**STRUKTON POWER MODULES MONITOR 00-20:53:10**

#01 V1.05 REC PWR:1111 T: 43C ENB:1 IN:\*\* T1B1T2B2: - - - - - SHT:--- INT:- EXT:- \

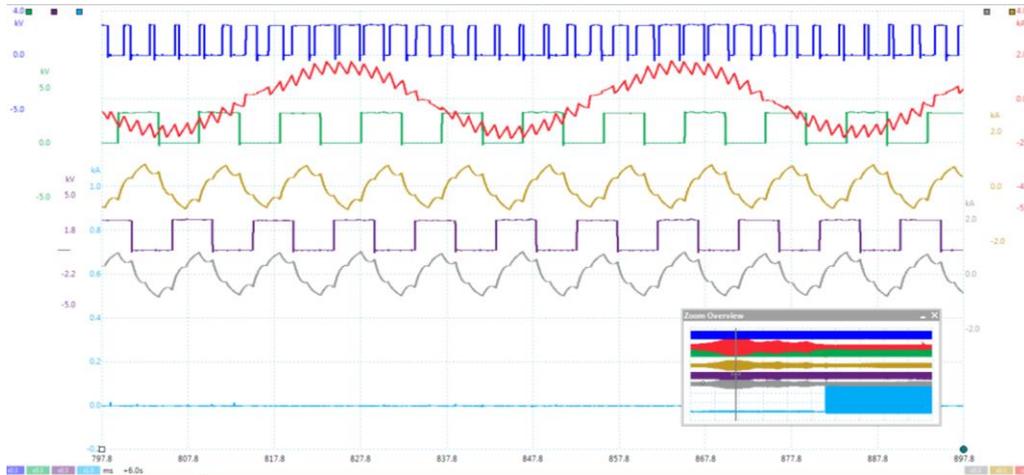
#02 V1.05 REC PWR:1111 T: 42C ENB:1 IN:\*\* T1B1T2B2: - - - - - SHT:--- INT:- EXT:- \

#03 V1.05 INV PWR:1111 T: 44C ENB:1 IN:\*\* T1B1T2B2: - - - - - SHT:--- INT:- EXT:- \

#04 V1.05 INV PWR:1111 T: 40C ENB:1 IN:\*\* T1B1T2B2: - - - - - SHT:--- INT:- EXT:- /

#05 V1.05 INV PWR:1111 T: 40C ENB:1 IN:\*\* T1B1T2B2: - - - - - SHT:--- INT:- EXT:- \

#06 V1.06 RHE PWR:1111 T: 38C ENB:1 IN:00 T1B1T2B2: - - - - - SHT:--- INT:- EXT:- \



# Vragen?

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