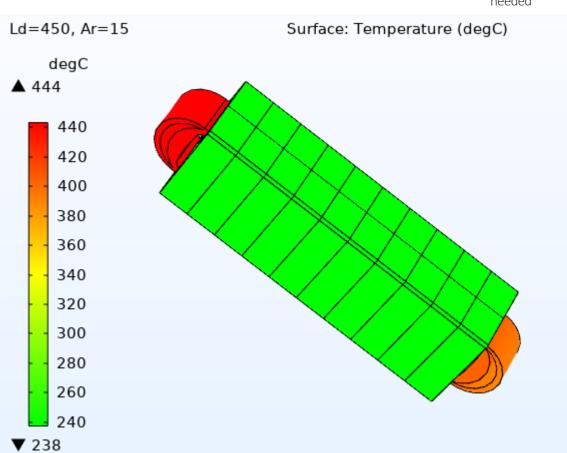
Thermal and Electromagnetics simulation – Part # HCS-201M-600A– Current rated 600A @ 10kHz

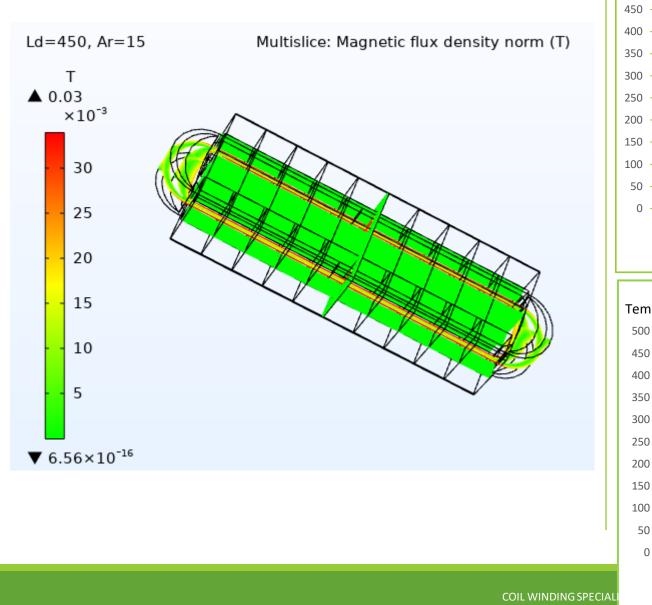
Current 30% (180 A) No Airflow Natural convection Ld=180, Ar=5 Surface: Temperature (degC) degC ▲ 99.2 95 90 85 80 75 70 65 60 ▼ 59.7



Current 75% (450A) 15 W/ (m²K) or 3 m/s air flow..

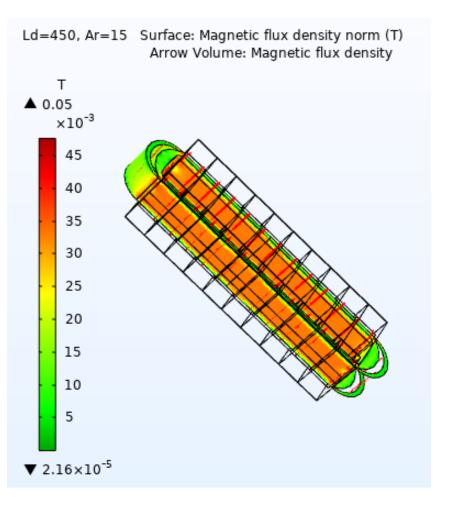
Additional external forced air cooling of air flow 10 cm/s needed

Thermal and Electromagnetics simulation – Part # HCS-201M-600A– Current rated 600A @ 10kHz

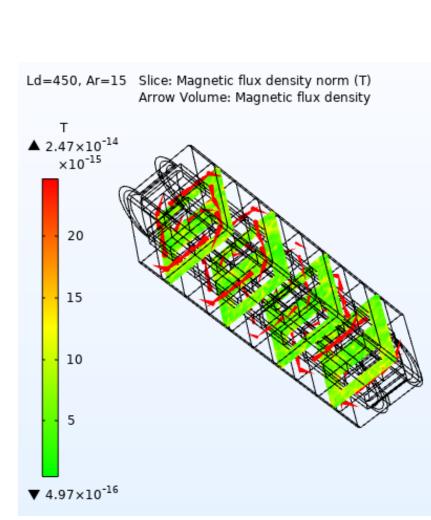




Thermal and Electromagnetics simulation – Part # HCS-201M-600A– Current rated 600A @ 10kHz



Coil Flux



Core flux

Abbreviations

- Ld : Current rated Amps
- Ar : Airflow
- W/m².K : Watts / Sq meter .Kelvin Heat Convection rate
- m/s : Meter/ Second Airflow
- degC : Temperature in Deg C
- T : Tesla Magnetic Flux density
- Temp : Temperature

Temp max: Temperature Maximum

- Amb : Ambient Temperature
- Amps : Ampere Load current.
- Slice : Sectional view

Disclaimer :

-Simulation MODEL is an effective tool for evaluating product performance by simulation; however, it does not simulate product performance in all test environments and is not intended to be a replacement for testing of the actual device by means of a test board or otherwise.

- Simulation results are for reference purposes only; CUSTOMER shall perform thorough testing using the actual device.