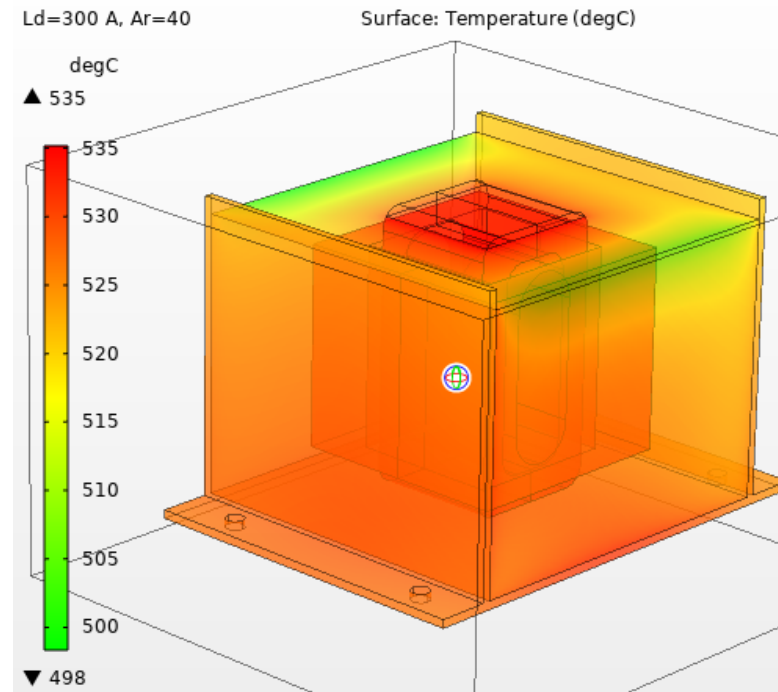
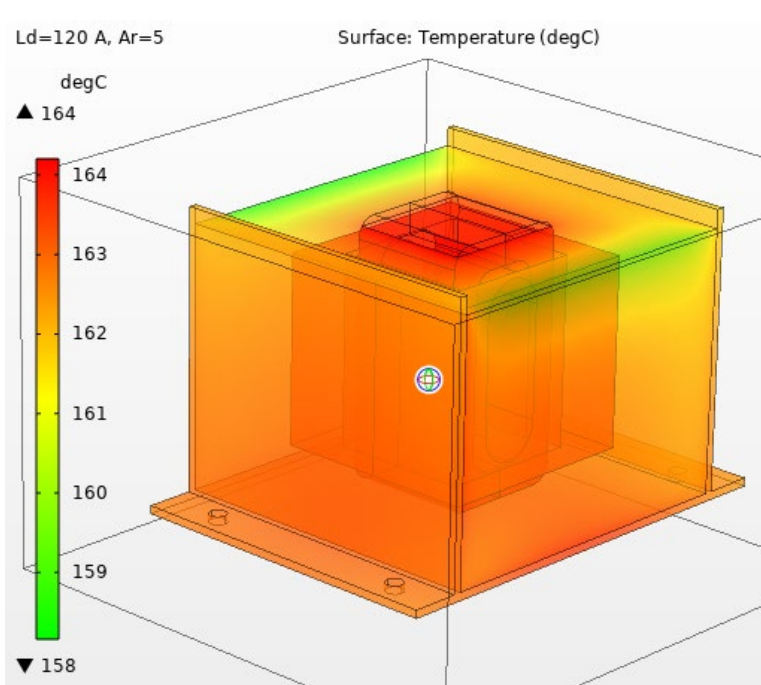
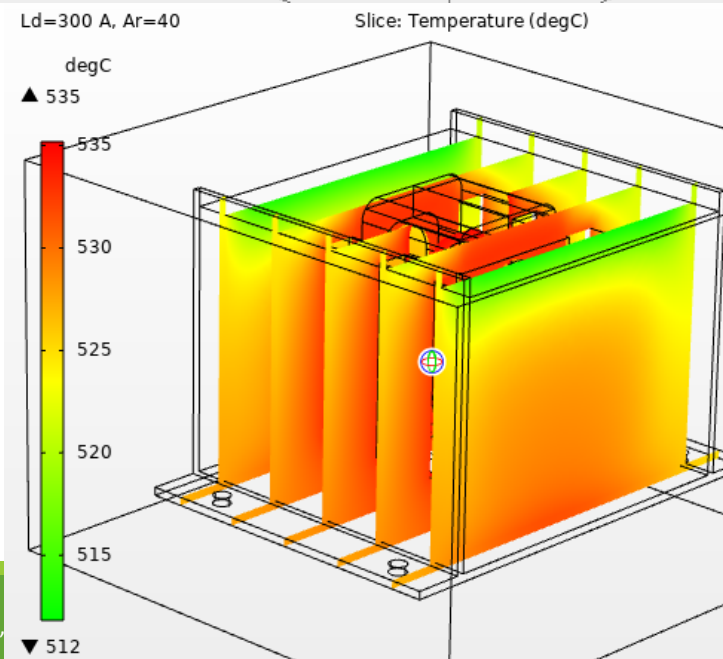
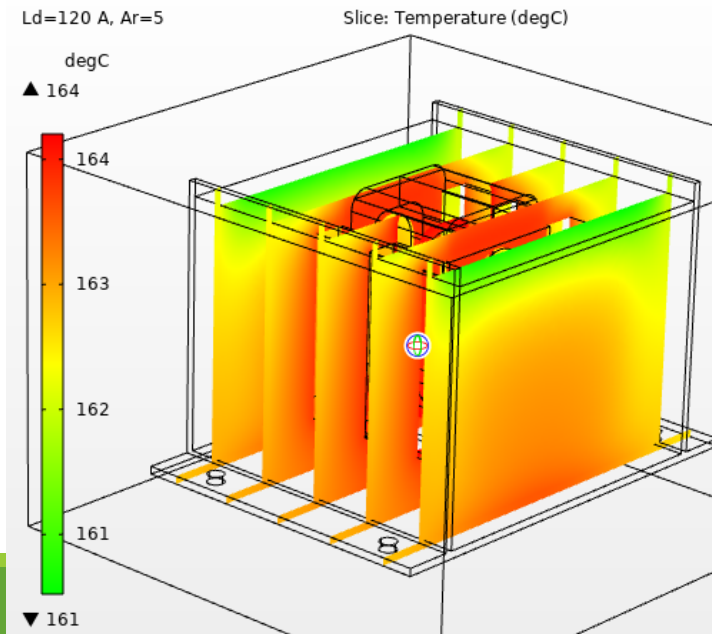


# Thermal and Electromagnetics simulation – Part # ELCEK38A62-400M-400A – Current rated 400A @ 10kHz

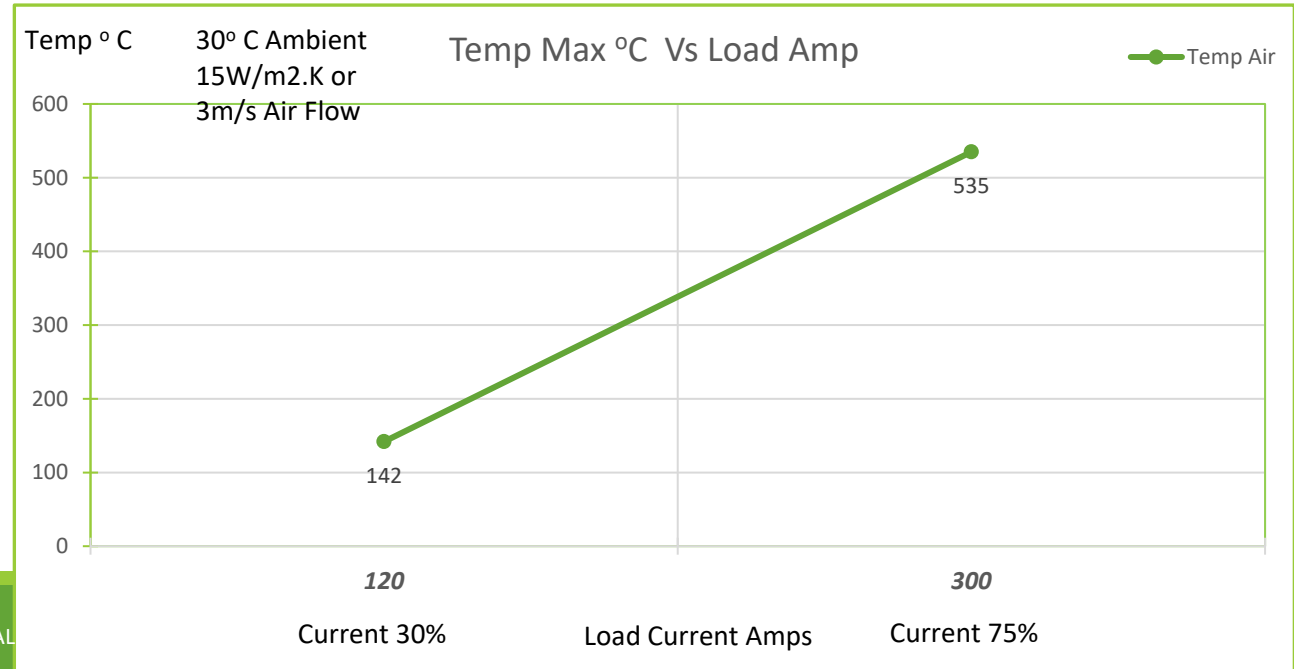
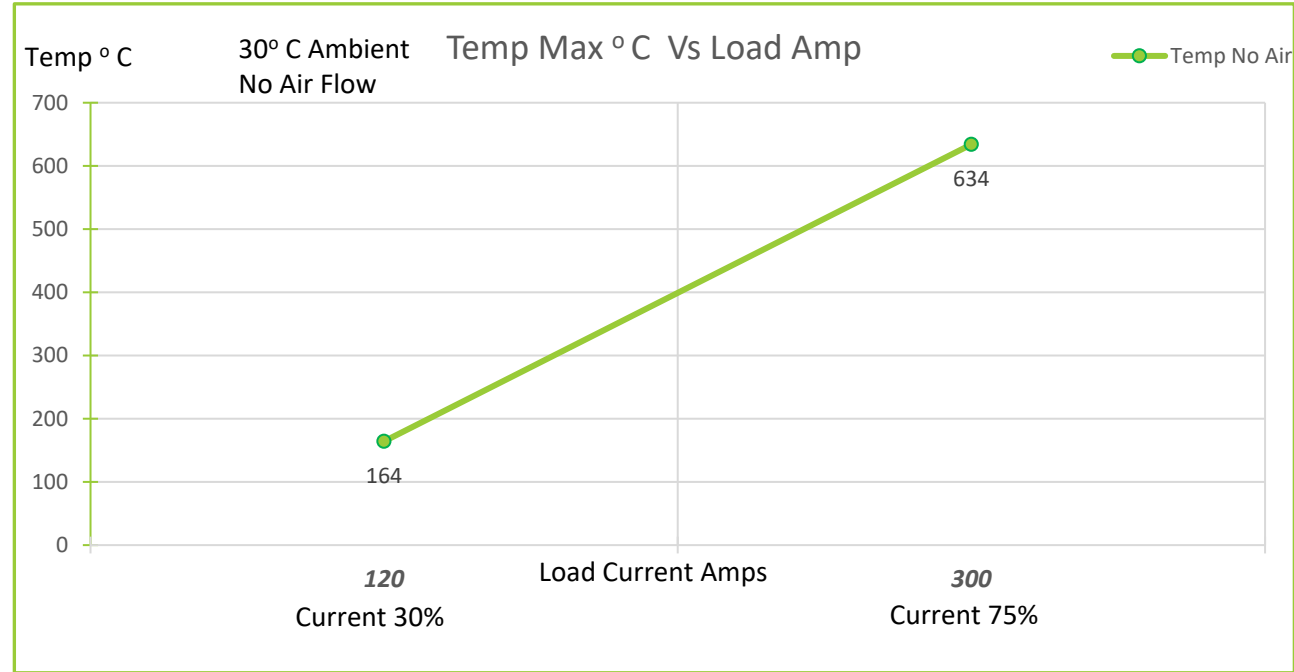
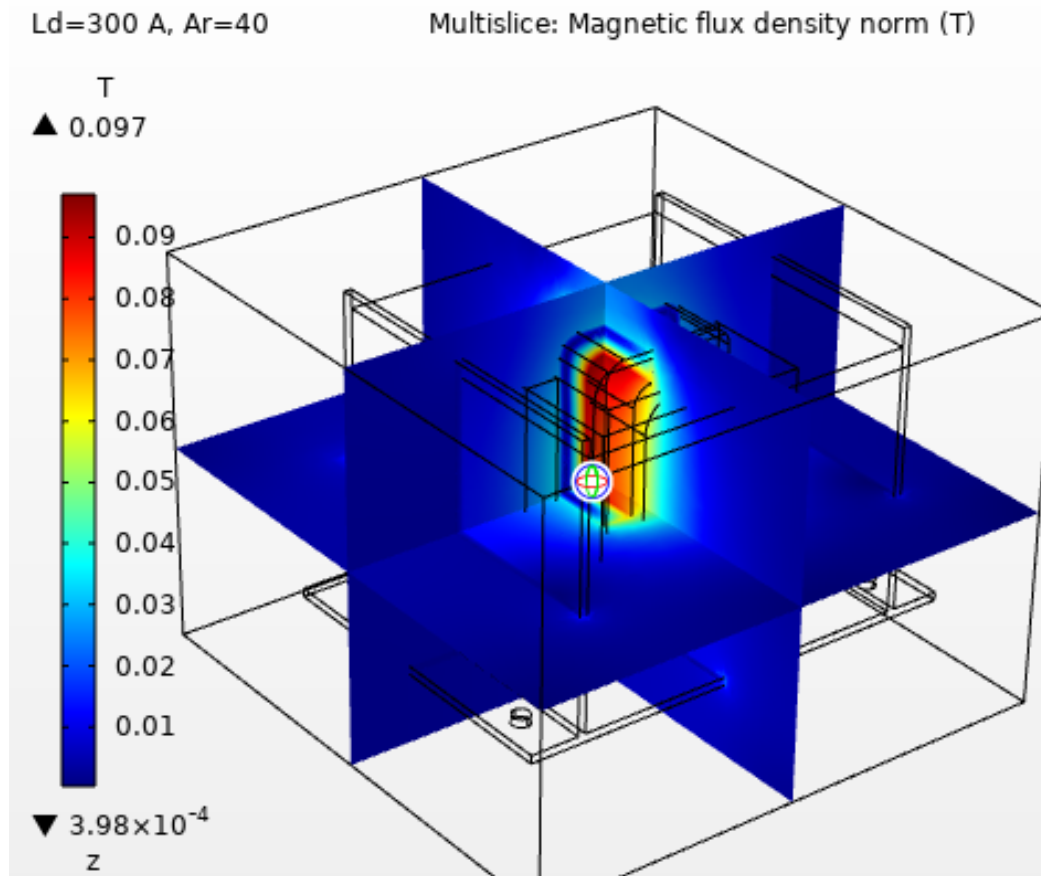
Current 30% (120 A)  
No Airflow  
Natural convection



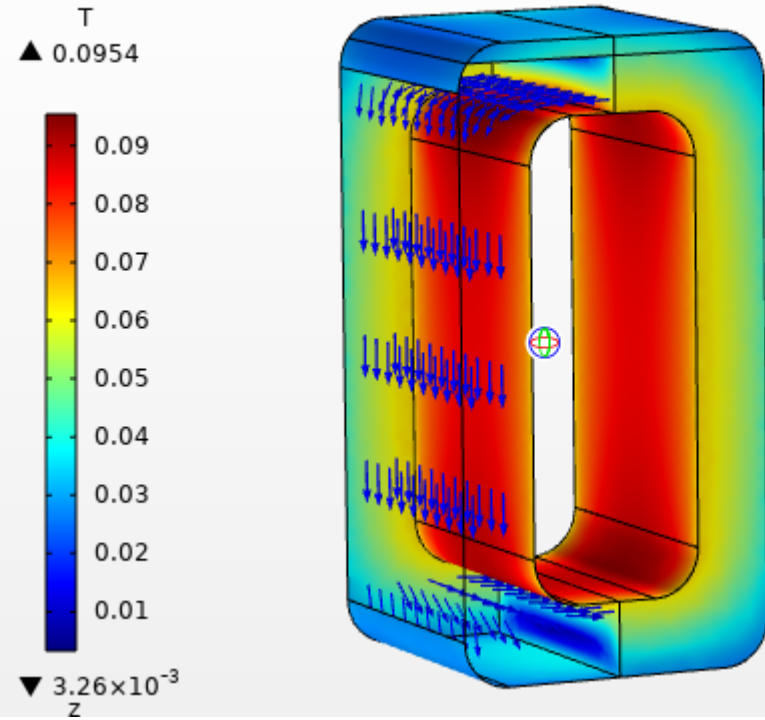
Current 75% (300A)  
15 W/(m<sup>2</sup>K) or  
3 m/s air flow.



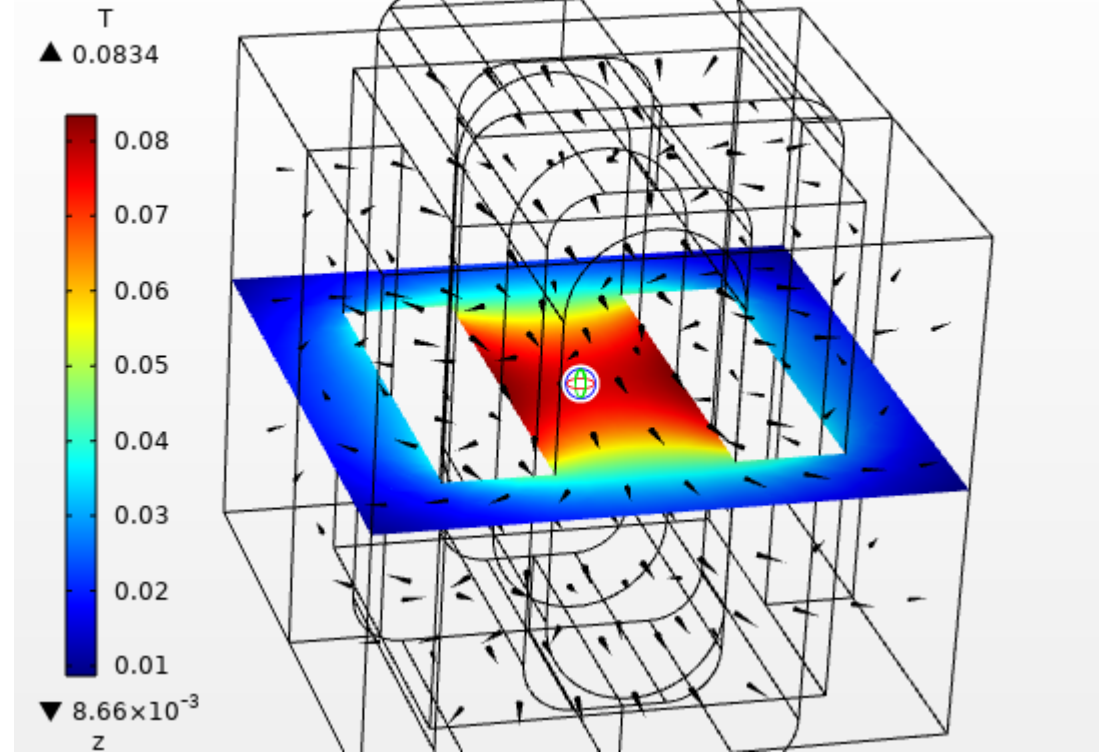
# Thermal and Electromagnetics simulation – Part # ELCEK38A62-400M-400A – Current rated 400A @ 10kHz



Ld=300 A, Ar=40 Surface: Magnetic flux density norm (T) Arrow Volume: Current density



Slice: Magnetic flux density norm (T) Arrow Volume: Magnetic flux density



# Abbreviations

Ld	: Current rated Amps
Ar	: Airflow
W/m <sup>2</sup> .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.