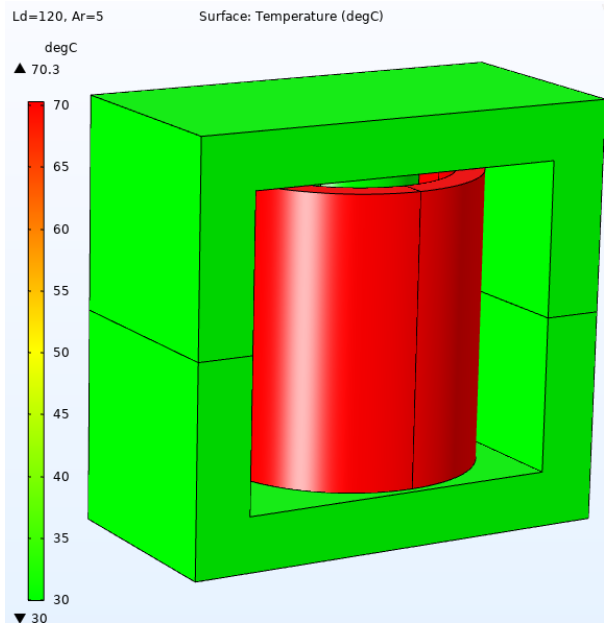
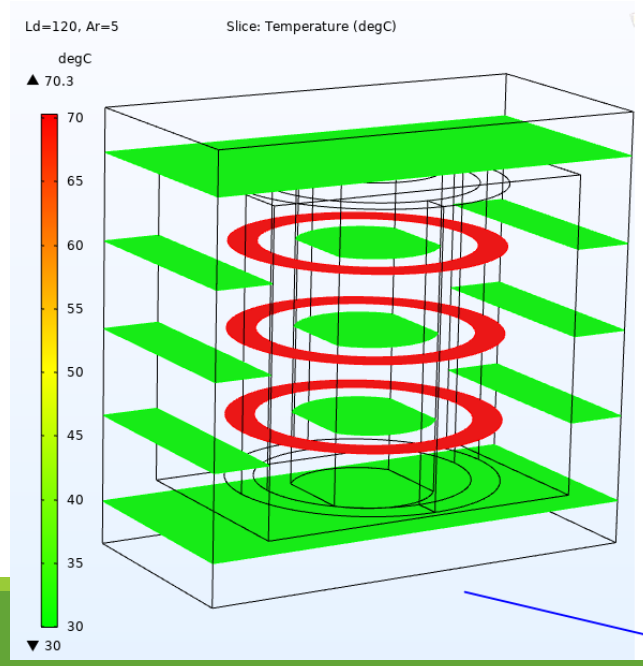
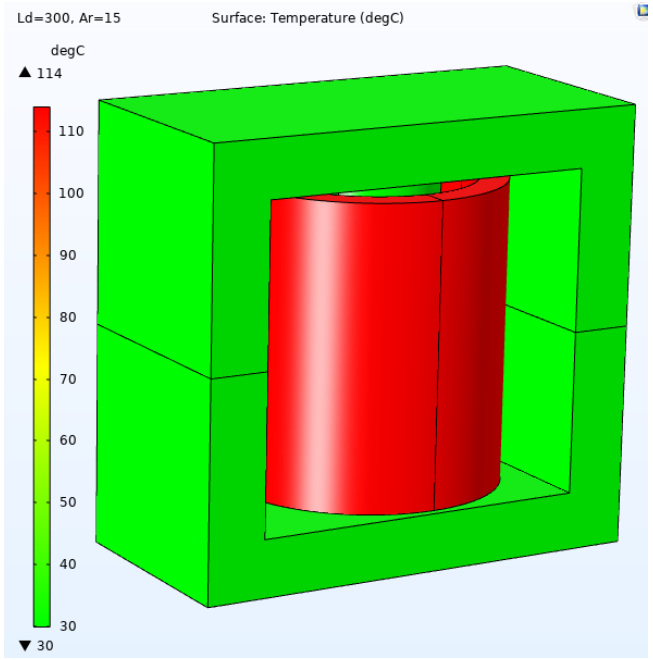
Thermal and Electromagnetics simulation – Part # LCES38A62-500M-400AH – Current rated 400A @ 10kHz

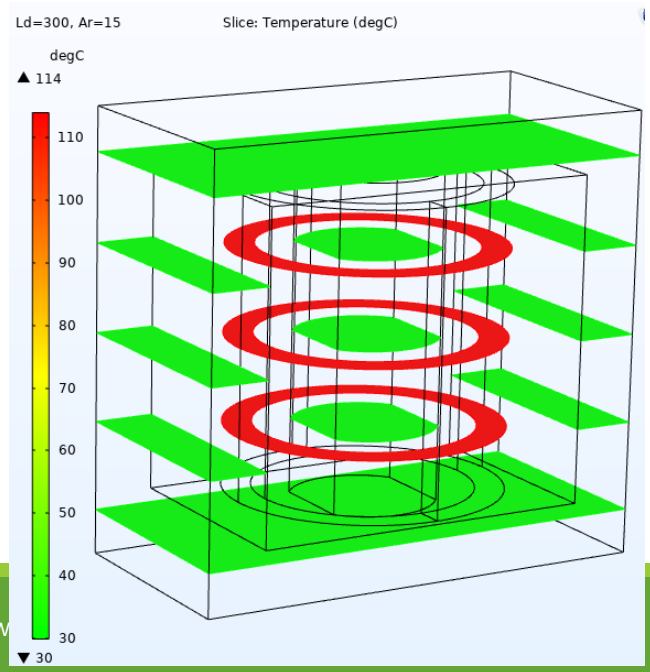
Current 30% (120A)
No Airflow
Natural convection



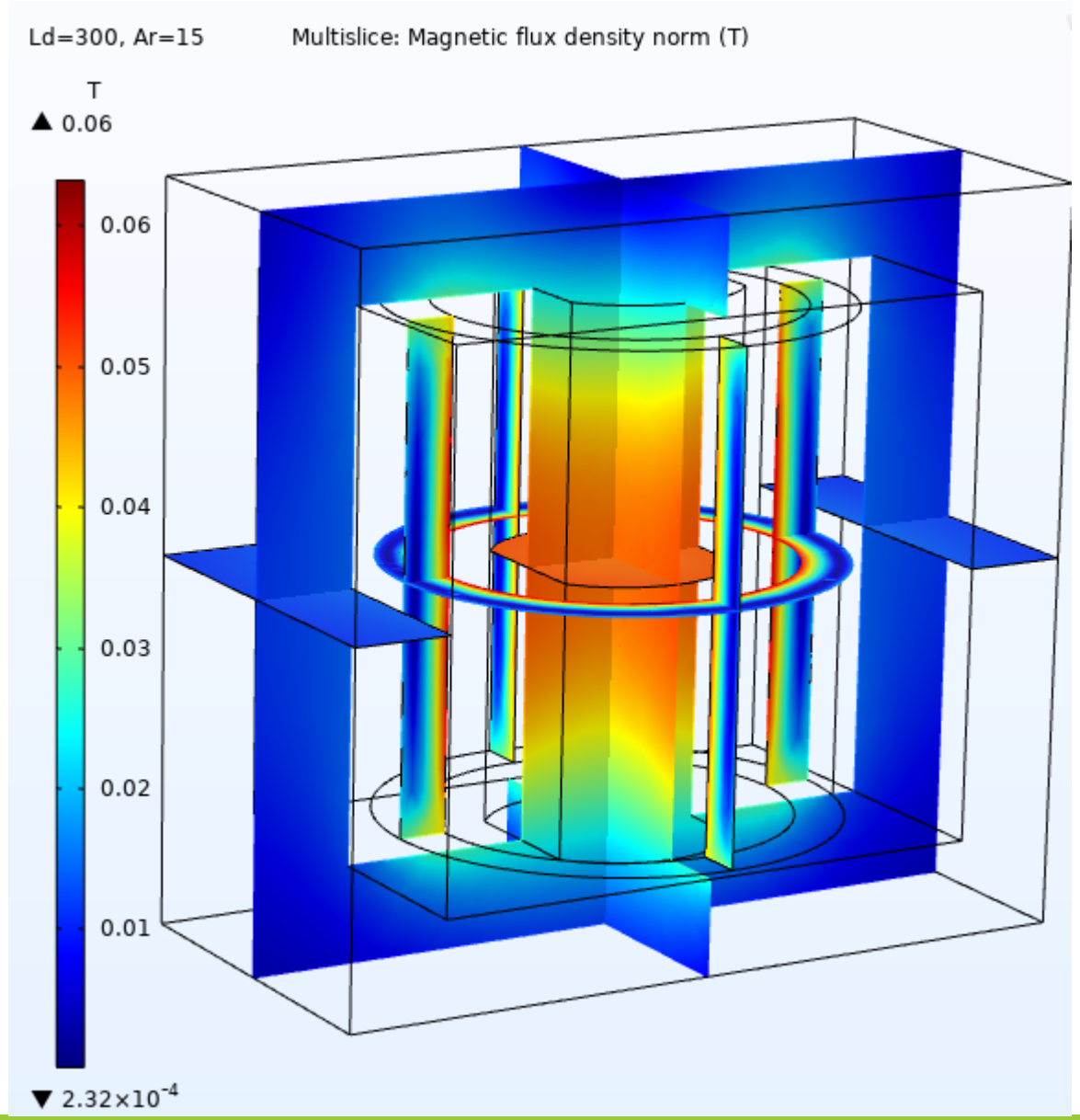


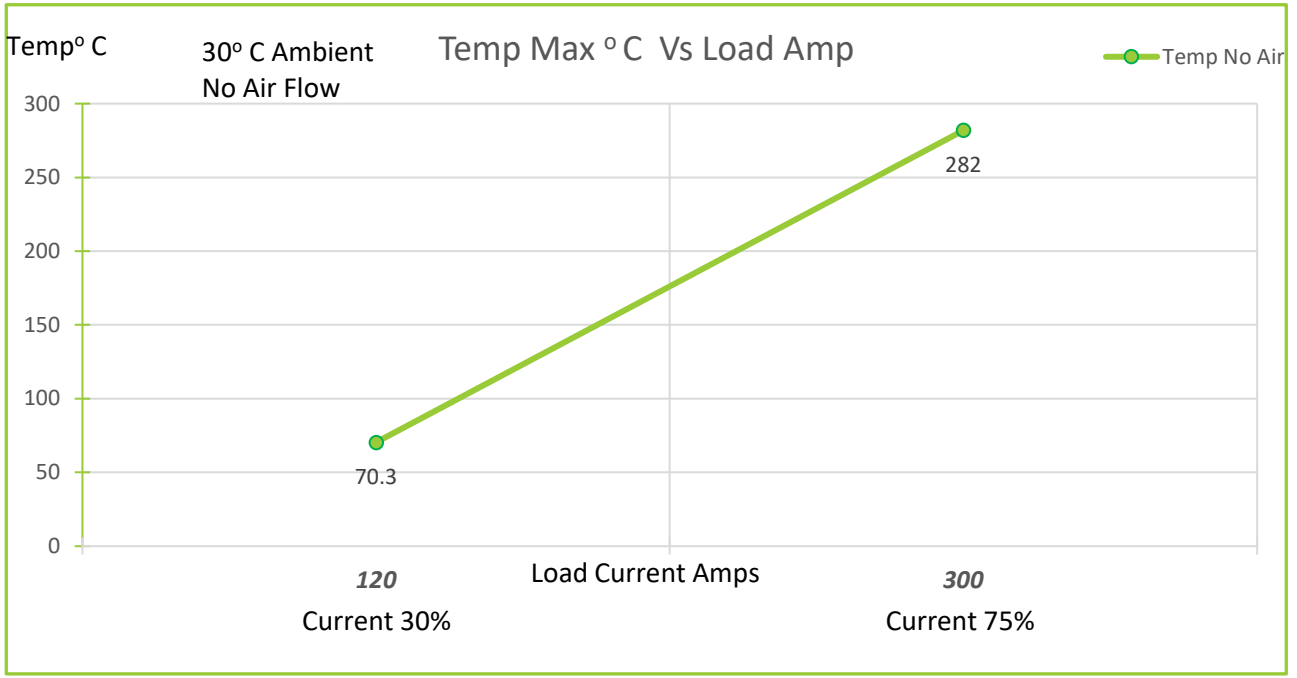
Current 75% (300A)
15 W/ (m^2K) or 3 m/s
air flow.

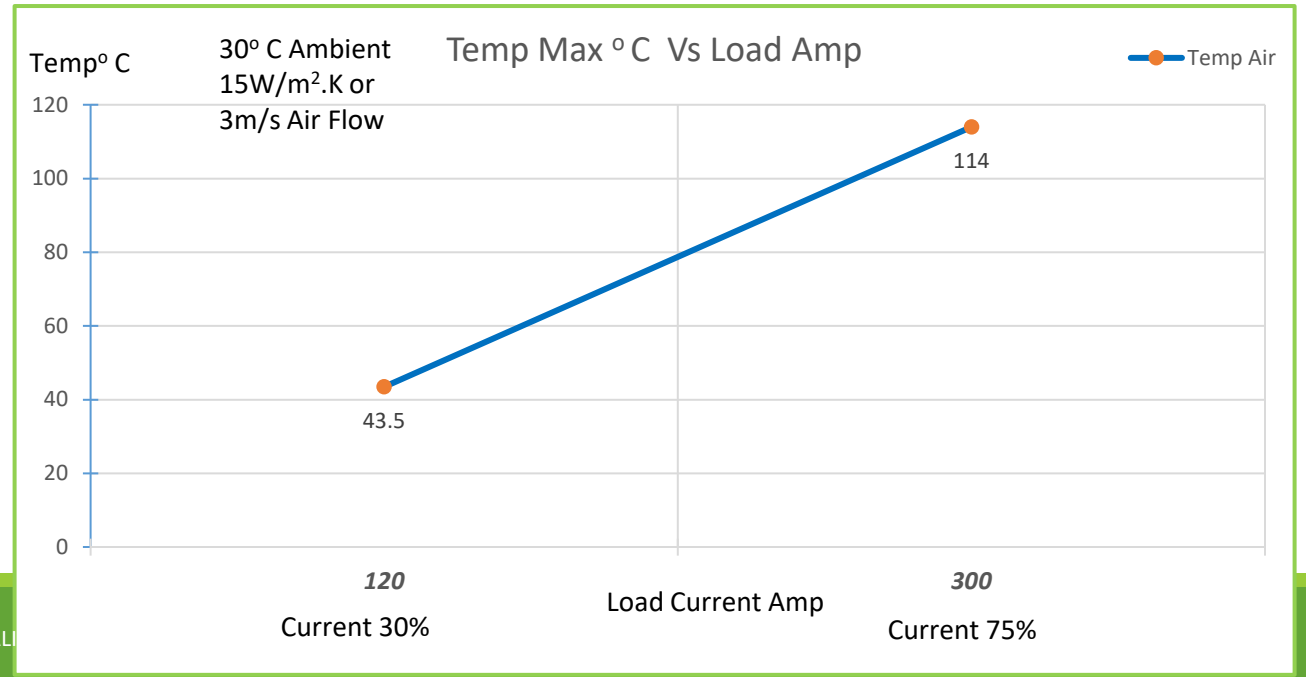




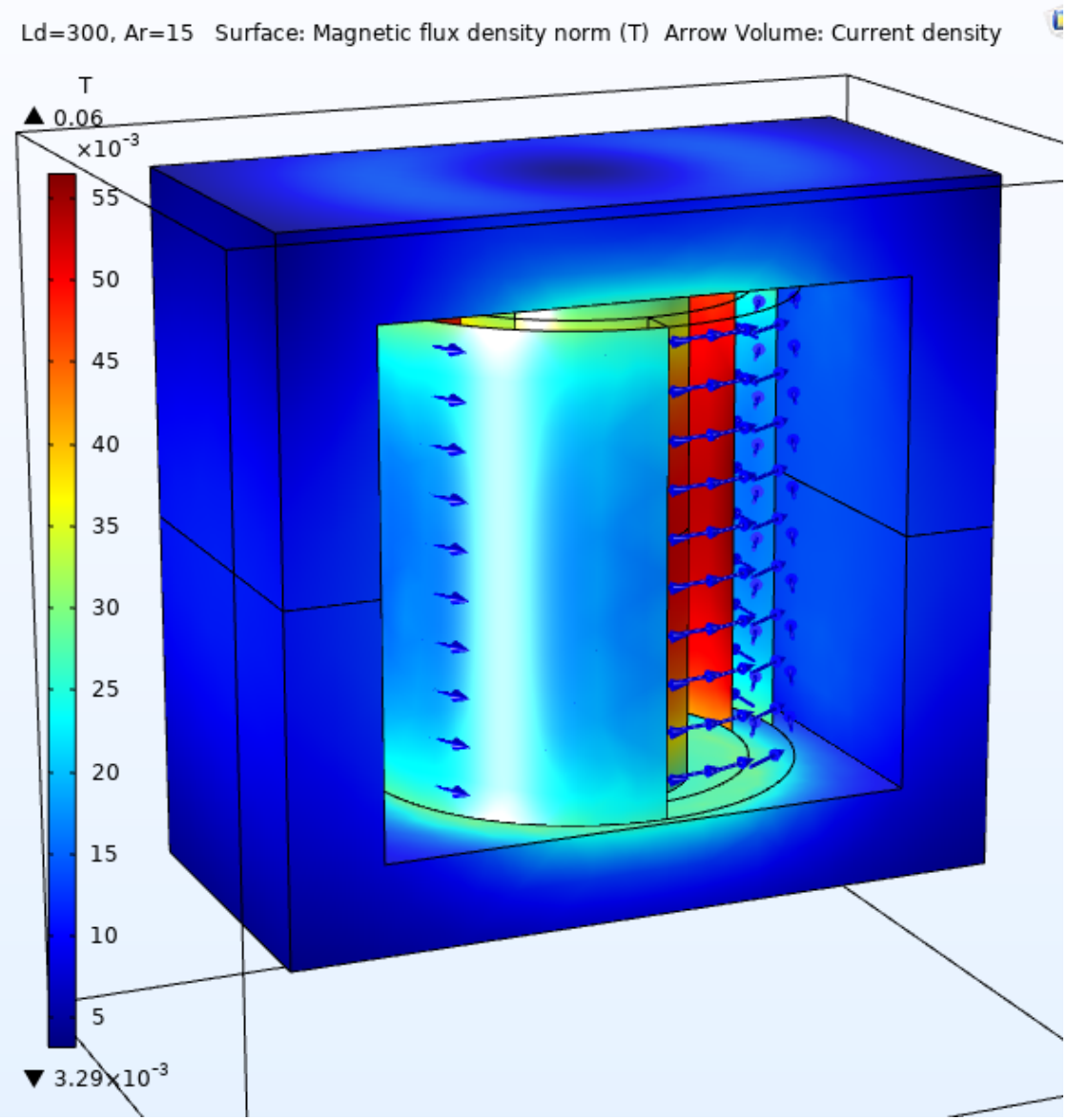
Thermal and Electromagnetics simulation – Part # LCES38A62-500M-400AH – Current rated 400A @ 10kHz

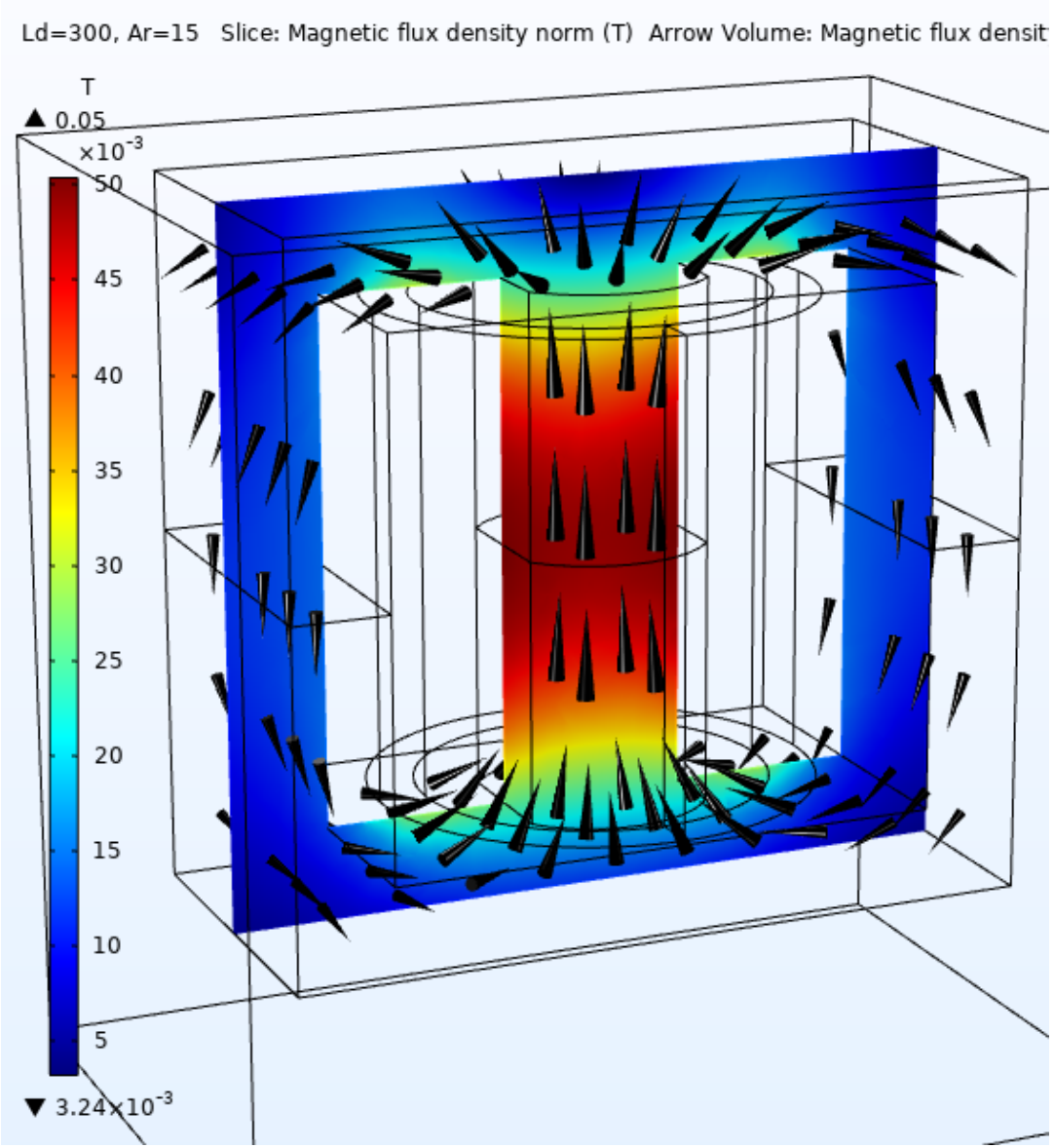






Thermal and Electromagnetics simulation – Part # LCES38A62-500M-400AH – Current rated 400A @ 10kHz





Abbreviations

Ld : Current rated Amps
Ar : Airflow
$W/m^2.K$: 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