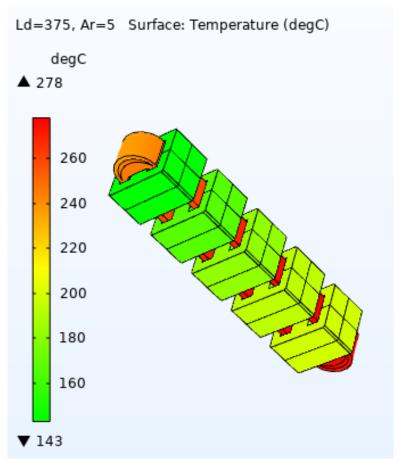
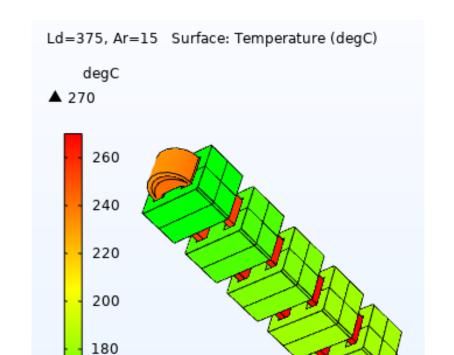
Current 30% (150 A) No Airflow Natural convection





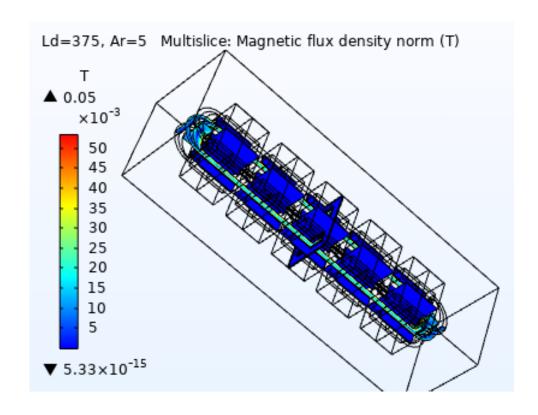
Current 75% (375A) 15 W/ (m²K) or 3 m/s air flow..

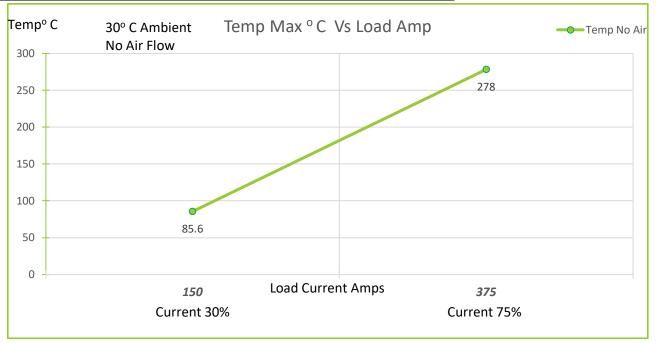
Additional forced air cooling of air flow 10 cm/s needed

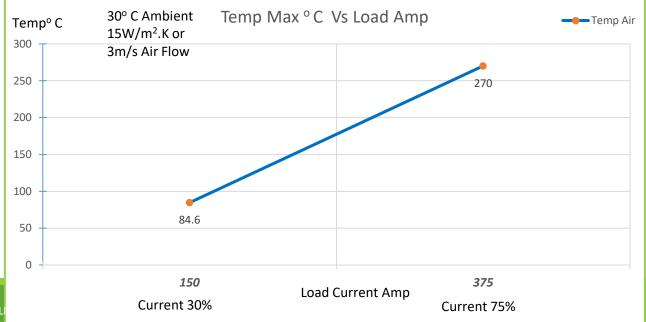
160

▼ 140

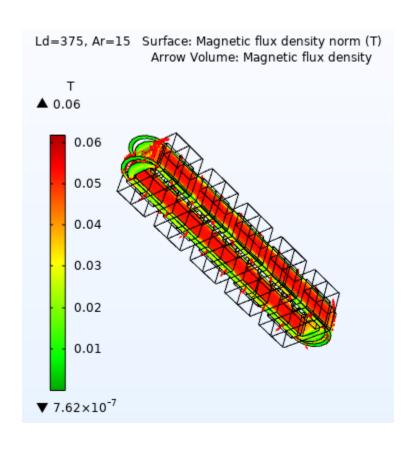
Thermal and Electromagnetics simulation – Part # HCS-601M-500AG-RB1– Current rated 500A @ 10kHz

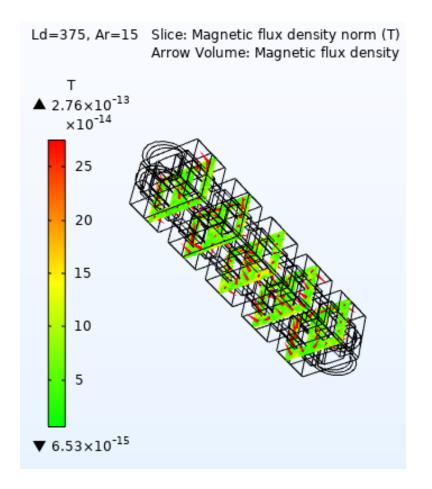






Coil Flux Core flux





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.