

Opera-3d Transformers Environment

The most important thing we build is trust



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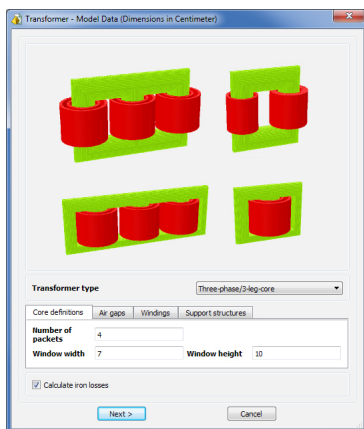
Transformers

- 2, 3 and 5-leg transformers
- Single phase, and three phase
- Core cross-section built from packets
- Multiple air-gaps

Reactors

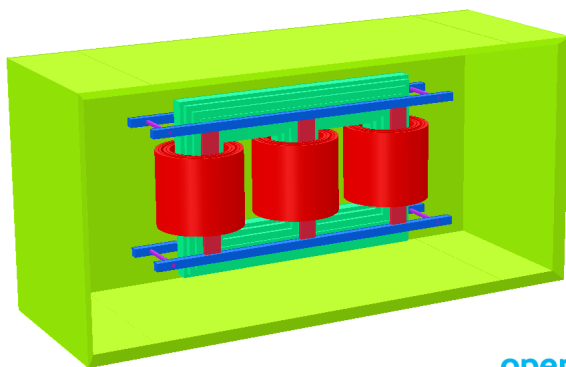
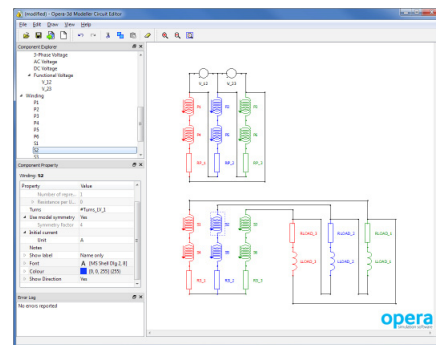
- 2, 3 and 4-leg transformers
- Iron and air core
- Multiple air-gaps

Set up complex models with no FEM experience required.



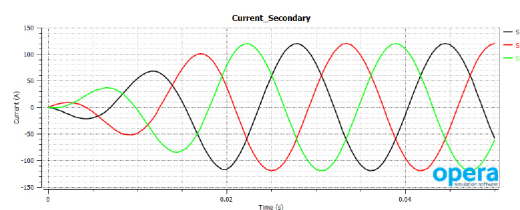
Unrivalled Functionality

- Build a complete machine from scratch in minutes
- Opera graphical Circuit Editor integration
- Mesh refinement and model symmetry to balance speed with accuracy where you need it
- Integrated with the Optimizer™
- Compatible with all related solvers:
 - Static (Includes non-linear materials)
 - Dynamics (harmonics and motional coupled)
 - Hysteresis / (De-)magnetisation
 - Thermal
 - Lossy Dielectrics



opera
simulation software

Automated Analyses



- Open Circuit
- Inrush Currents
- Short Circuit
- Mutual Inductance

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