

Specifications Vision Network Analysis

Load flow

- Basic load flow calculation
- Motor start
- n-1/n-2 analysis
- Load / generation profile analysis
- Pseudo-monitoring
- Asymmetric load flow

Short circuit calculations

- IEC (60)909 symmetric and asymmetric short circuit calculation
- IEC 61363 calculation of short circuit currents for ships

Fault analysis

- Cross-country faults
- Switching operations

Reliability

- Arc flash analysis
- Voltage dip analysis
- Failure analysis and grid recovery

Protection

- Coordination
- Simulation
- Selectivity analysis
- Protection analysis

Harmonics

- Load flow
- Frequency response
- Passive and active harmonic filters

Dynamic analysis

- Electro Magnetic Transients (EMT)
- Generator control systems
- Transient stability

Stability analysis

- Eigen values, respective damping and oscillation frequency
- Right and left eigenvectors
- Participation factors

Geographic

- Import functions for GIS
- Export to Google Earth
- Grid Navigator (optional)

Components

- Two- and three-winding transformers
- Synchronous generators and motors
- Excitation and turbine governor control
- Asynchronous generators and motors
- Cables and cable sections
- Lines
- Grounding transformer
- Coils and capacitors
- Reactance coils
- Loads
- Circuit breakers and disconnect switches
- Protection devices
- Busbar systems
- Source
- Wind turbines

Macro

- Powerful programming language for sensitivity analyses and other repeated calculations

For more information about Vision Network Analysis, visit www.phasetophase.nl/visionnetworkanalysisen