etap® ArcFault™

## High Voltage Arc Flash

ETAP ArcFault™ software is recommended for performing arc flash analysis for systems operating at 15 kV and above in compliance with OSHA's requirements for electric Transmission & Distribution utilities and renewable energy systems.

Key Features

- Thousands of protective device libraries
- Protective device sequence-of-operation
- Arc Flash Result Analyzer
- Automatically find worst-case incident energy
- Personal protective equipment editor
- Auto-update worst-case results to datablocks
- Verified & validated against industry standards
- ArcFault Calculator for quick *What If* evaluations
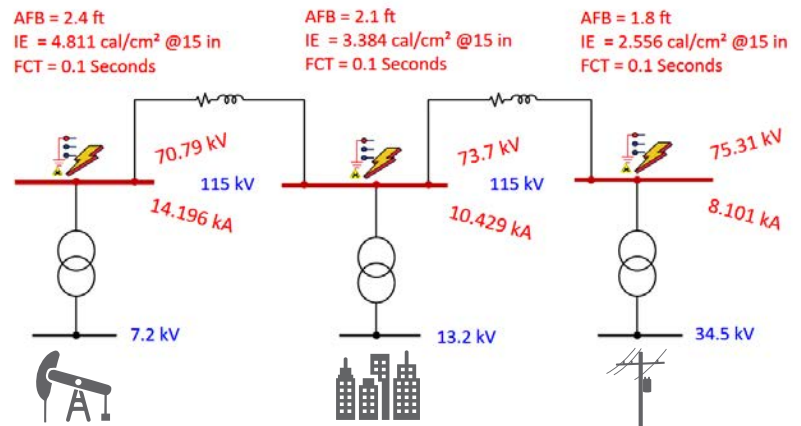
Open-Air Arcing Fault

- Applicable for systems from 1 kV to 800 kV
- OSHA 1910.269 Appendix E
- National Electrical Safety Code - NESC
- Model LG, LL, 3-phase arc faults
- Altitude & transient overvoltage correction factors
- Minimum approach clearances
- Customizable equations & coefficients

Arc Flash in a Box

- Extended arc flash model for Arc-in-a-Box
- Analysis data for enclosed equipment 15 kV to 36 kV
- Typical & user-defined gaps between conductors
- Incident energy reflectivity factors for box size
- Auto-gap, working distance & auto-selection of minimum approach distance
- Designed for renewable energy collector systems

Reduce Risk   Improve Safety   Enforce Compliance

Fully integrated with Star™ protective device coordination module, utilizing time-current characteristic (TCC) curves and short circuit calculations for arcing fault hazard evaluation.

Automatic Arc Fault Duration

- Power distribution & current-limiting fuses
- Differential & distance relays
- Directional & voltage-restrain relays
- Phase, ground & sequence protective devices

Arc Fault Current

- LG, LL, 3-phase faults
- Phase, ground & sequence fault currents
- Short circuit analysis for renewable energy systems
- Auto-trip using LVRT in WTG & PV Inverters
- Fault impedance & high-resistance path to ground

Model-Driven Arc Fault Simulations

- Unlimited scenarios to evaluate worst-case results
- Graphical simulation of arc faults
- Model utility, transmission & distribution systems
- Reporting, labeling & data sheets
- Alerting for special arc fault conditions

ArcFault Calculator

- Quick *What If* scenarios
- Plots for incident energy & heat flux results
- Plots of minimum approach distances per NESC-C2-2017
- User-definable correction factors
- AF Boundary results for incident energy exposures
- Ability to process thousands of calculations with a single-click
- Batch analysis of multiple working distances for each fault location
- Metric and English unit systems

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F2-AF-FEB2020