

etap[®] IEEE 1584-2018

Low & Medium Voltage Arc Flash Analysis



ETAP Arc Flash Analysis software is used to perform arc flash analysis for systems from 0.208 kV to 15 kV in accordance with IEEE 1584-2018 "IEEE Guide for Performing Arc Flash Hazard Calculations." The software determines the incident energy and arc flash boundary values required to comply with NEC equipment labeling. It also provides hazard evaluation for shock protection and arc flash PPE according to NFPA 70E 2018.

Key Features

- Enclosure editor for height, width & depth dimensions
- Electrode configurations - VCB, VCBB, HCB, VOA, HOA
- Arc current variation correction factor (LV & MV)
- Enclosure size correction factor
- Arc sustainability limits for LV equipment: 240V, 2000A
- Typical & user-defined default data per IEEE 1584-2018
- MFR specific equipment enclosure templates
- Light & pressure relays
- Instrument compartment arc flash analysis
- Generic user-definable incident energy & AFB
- Lockout relay time delay
- Overcurrent relay & fuse tolerance
- User-definable current limiting fuse clearing times
- Auto-update worst-case results to OLD & datablocks
- Arc flash analysis reports based on IEEE 1584-2018
- Enhanced Sequence-of-Operation viewer
- Powerful graphical Arc Flash Calculators
- Single-phase incident energy correction factor
- Copper/Aluminum electrode material factor



Design

Calculate

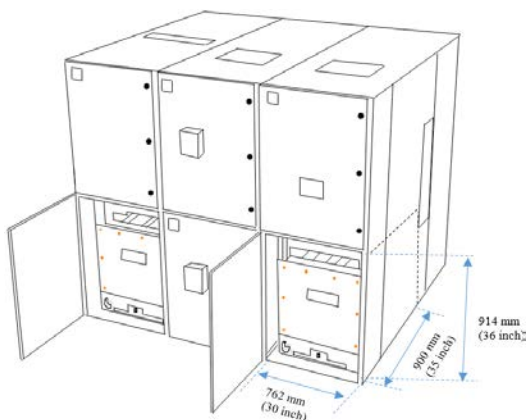
Evaluate

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The IEEE 1584 Arc Flash module integrates with Short Circuit and Star™ Protective Device Coordination modules to automatically evaluate the incident energy at multiple locations within the same equipment.

Compartment Specifications

- Height, width, depth & volume
- Individualized gaps
- Multiple working distances
- Multiple electrode configurations
- Enclosure isolation
- Arc duration & UD protective devices
- Operating delays
- User-definable instrumentation voltage

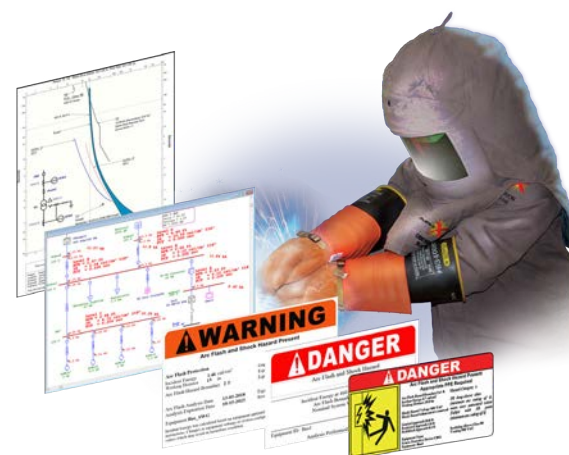
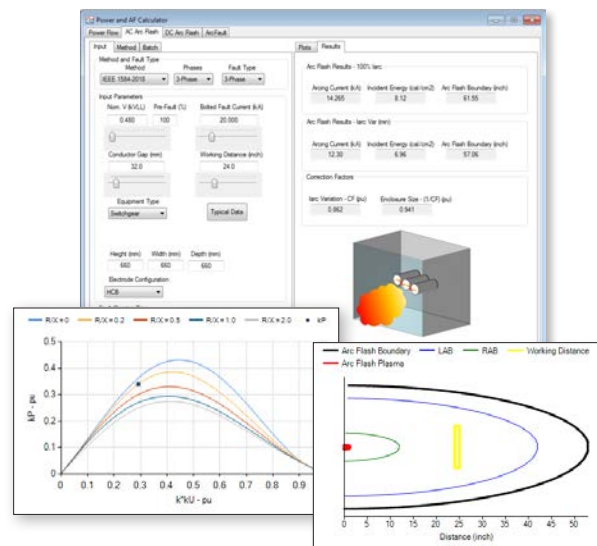


Enclosure Types

- Bus
- Main PD - line side
- Load PD - line side
- Load PD - load side
- Load terminal
- Instrumentation

Capabilities

- Arc Flash Result Analyzer
- Get typical data for enclosures (IEEE 1584-2018)
- Unlimited input data revisions
- Export enclosure editor parameters to MS Excel
- Automatically find worst-case incident energy
- Personal protective equipment / I.E. levels editor
- Verified & Validated against industry standards
- Arc flash labels, study data sheets & work permits
- Arc flash analysis data (IEEE 1584-2002 and 2018)
- Shock risk assessment data
- Arc flash alerts
- Multi-language labels
- Protective Device Sequence-of-Operation
- Create TCCs from Arc Flash mode
- Arc current & incident energy curves on TCCs
- Arc resistant switchgear damage plot



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