

IEEE 1584

IEEE Std 1584-2002 (*Guide for Performing Arc-Flash Hazard Calculations*) is a standard of the Institute of Electrical and Electronics Engineers that provides a method of calculating the incident energy of arc flash event.

Purpose

IEEE 1584-2002 was developed to help protect people from arc-flash hazard dangers. The predicted arc current and incident energy are used in selecting appropriate overcurrent protective devices and personal protective Equipment (generally abbreviated as PPE), as well as defining safe working distance. Since the magnitude of the arc current is inherently linked with the degree of arc hazard, the arc is examined as a circuit parameter. Furthermore, since estimation are often useful, simple equations for predicting estimated arc current, arc power, and incident energy values and probable ranges are presented in this work.^[1]

Procedure

Arc flash hazard calculations are currently implemented in most of the industry plants due to OSHA regulations.^[2]

References

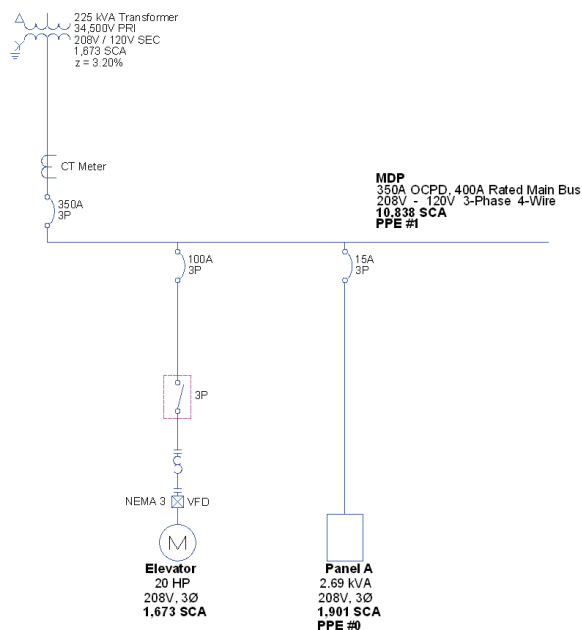
- [1] IEEE Xplore - IEEE 1584-2002 (<http://ieeexplore.ieee.org/Xplore/login.jsp?url=/iel5/2943/30100/01380323.pdf?arnumber=1380323>)
 [2] http://ecmweb.com/mag/electric_calculating_arc_flash_here

External links

Software

There are several software companies which provide option for performing Arc Flash Hazard Calculations as per IEEE 1584 or NFPA 70E. They include:

- EasyPower LLC. (http://www.easypower.com/arc_flash/arc_flash_resource_center.php)
- ArcAD Inc. (<http://www.emergencyswitch.com/arcflash/arc-flash-software-v5.html>)
- Operation Technology Inc. (<http://etap.com/arc-flash-analysis/arc-flash-analysis-software.htm>)
- SKM Systems Analysis Inc. (http://www.skm.com/products_arcflash.shtml)
- IEEE 1584 Based Arc Flash Calculator and Label Maker (http://www.arcblasts.com/arcflash/arc_flash_analytic.html)



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