

Fuse V1

This contains both a SIMetrix Spice and Simplis simulation model of a fuse. This model is based on a paper titled “Fuse Model for Over-Current Protection Simulation of DC Distribution Systems”, Intellec 1993. This model was originally created by Tim Daun-Lindberg of IBM.

The model also requires a Simplis multiplier library model. This is also attached in the zip file. Please read install.txt on installing the multiplier model. Please be advised that Simplis POP will not work with the multiplier model. Recommend to install this in a separate directory that is used for personnel library models.

The following are the fuse test circuits:

SIMetrix_Fuse_AC_Test.sxsch – Test circuit for the SIMetrix Spice version of the fuse model. This test applies a 60Hz voltage to the fuse model.

SIMetrix_Fuse_DC_Test.sxsch – Test circuit for the SIMetrix Spice version of the fuse model. This test applies a DC voltage to the fuse model.

Simplis_Fuse_AC_Test.sxsch – Test circuit for the Simplis version of the fuse model. This test applies a 60Hz voltage to the fuse model.

Simplis_Fuse_DC_Test.sxsch – Test circuit for the Simplis version of the fuse model. This test applies a DC voltage to the fuse model.

The following are the fuse subcircuits:

SIMetrix_Fuse.sxcmp - SIMetrix Spice version of the fuse model.

Simplis_Fuse.sxcmp - Simplis version of the fuse model.

Multiplier.zip – Zip file of Simplis multiplier components. Please see install. Txt for installation instruction. Recommend to install this in a separate directory that is used for personnel library models.