



Evolution thro' Knowledge

E G S Computers India Pvt Ltd.

Engineering Global Solutions

SOLIDWORKS ELECTRICAL TOP ENHANCEMENTS IN 2023

SOLIDWORKS ELECTRICAL :

SOLIDWORKS Electrical Schematic is a systems-level electrical design package that allows you to design electrical schematics quickly and accurately with customizable design tools & makes creating 2D schematics a quick and painless process. Where SOLIDWORKS Electrical 3D is linked with your 2D schematics which helps to create route automatically and get the lengths of your wires, cables, and harnesses.

Dynamic Connection Labels

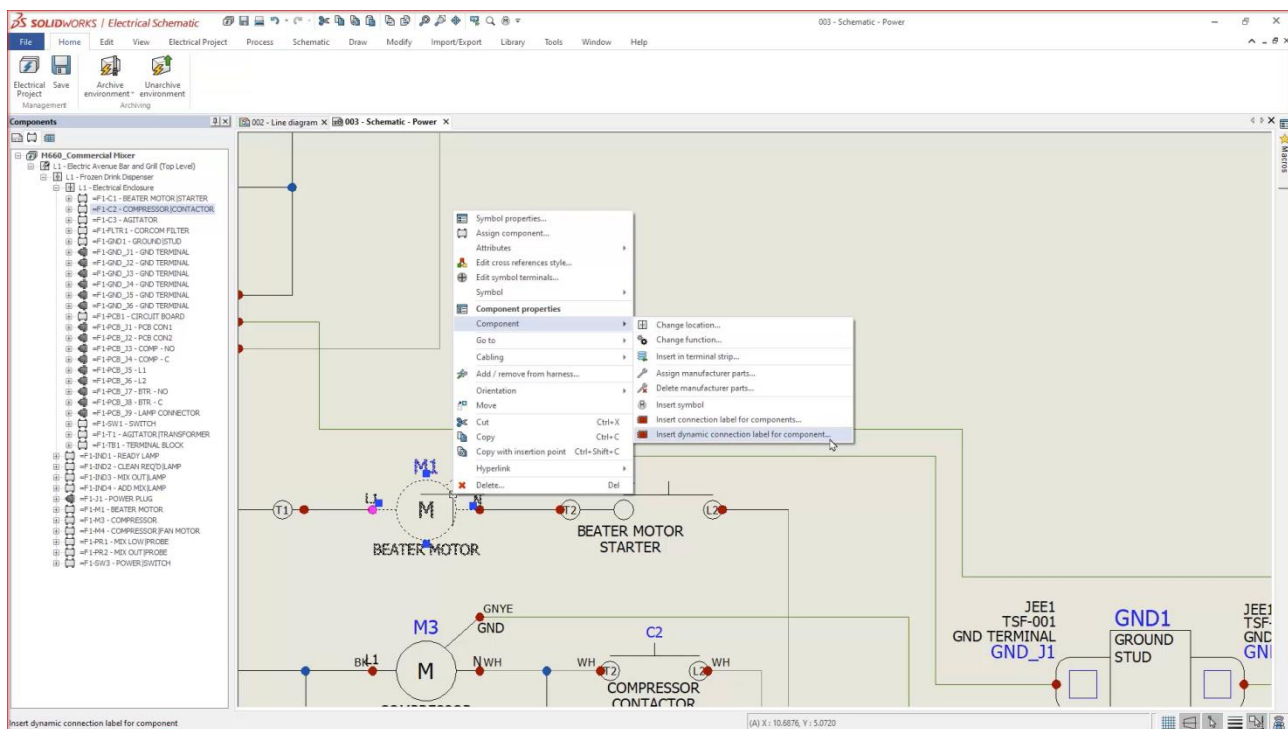
Enable labels for electrical connectors that adjust for the number of circuits or pins in a connector.

- ✓ Applies to labels for Components and also Manufacturer's Parts
- ✓ Reduce the number of labels needed in the content library
- ✓ Labels can now dynamically adjust to cover a range of needs

Where to find:

SOLIDWORKS Electrical > Schematic > Connection Labels.

(or)



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Enhanced Excel Automation

Expanded capabilities for Microsoft Excel to be used to automate Electrical Schematic design operations. New features enable greater flexibility to automate electrical design processes.

- ✓ Set more wire properties, including wire section
- ✓ Insert and connect origin/destination arrows in a Circuit Macro
- ✓ Define destination folder *Replace symbol while inserting a Circuit Macro

Where to find:

SOLIDWORKS Electrical > Import/Export > Excel Automation > Excel Automation
(or)



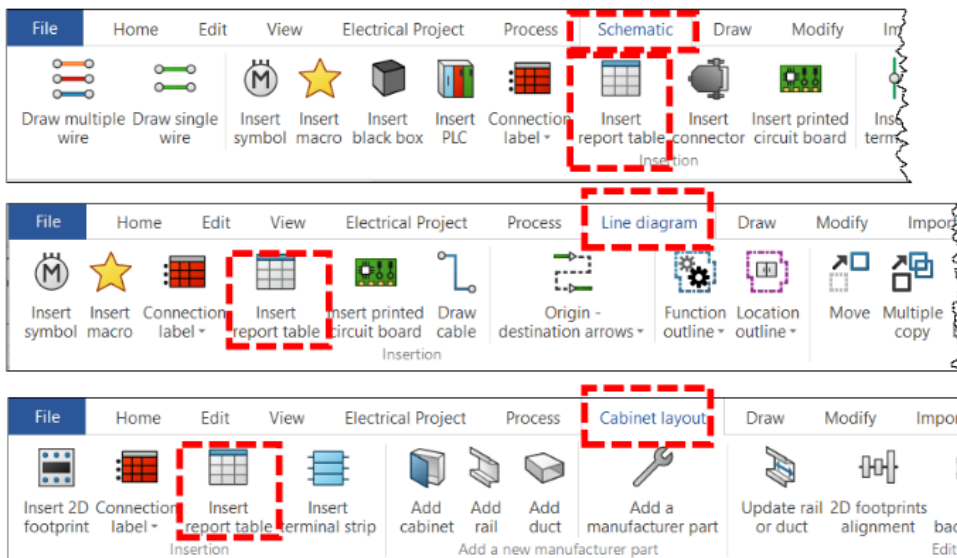
Embedded Report Tables

Expanded capabilities to add a report to any of the SOLIDWORKS Electrical drawing types. This combination of drawings and reports provides more complete documentation and eliminates various extra steps. Reports can be included on the following:

- ✓ Schematics, Single Line diagrams
- ✓ 2D control panel drawings

Where to find:

SOLIDWORKS Electrical > Schematic/SLD/Cabinet Layout > Insert Report Table



Electrical 3D - File -Properties from Schematic/2D

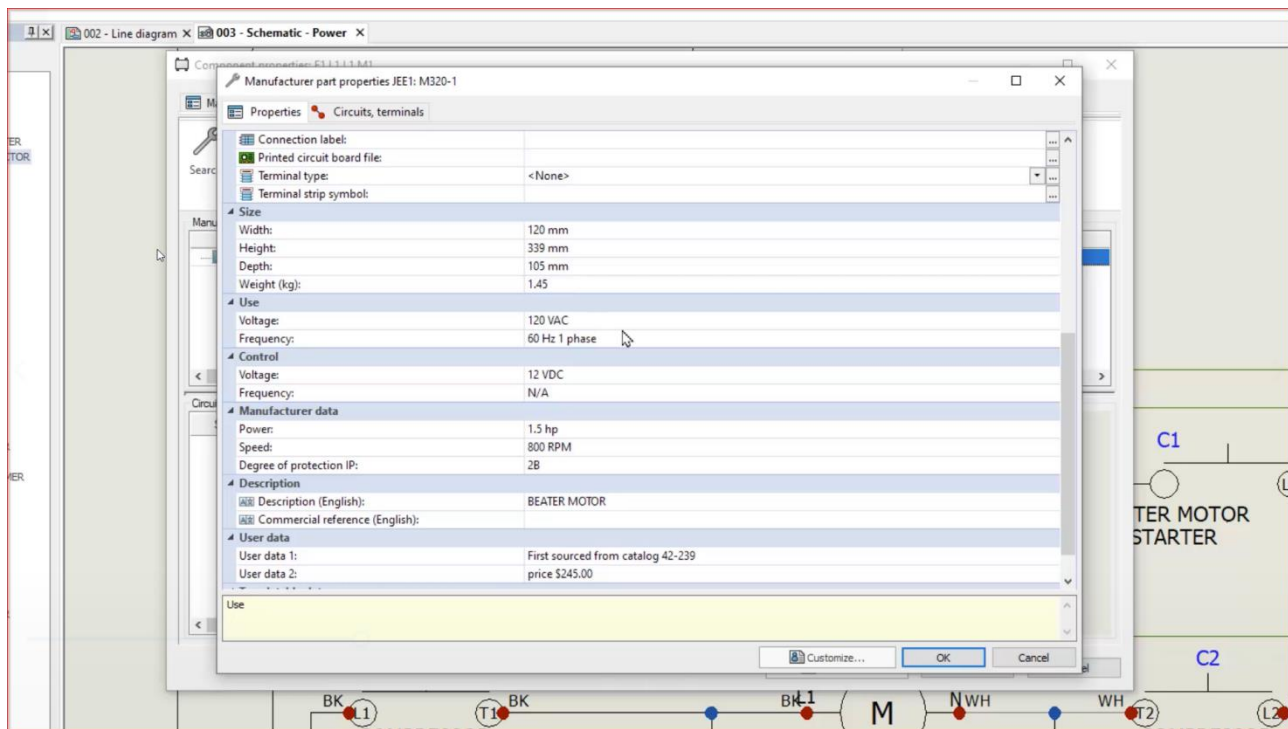
Electrical 3D - File -Properties from Schematic/2D Bring a full list of properties from the schematic/2D over to the 3D model. The user can determine how many properties that Properties are carried from the following areas:

- ✓ Manufacturers Parts information
- ✓ Custom Properties
- ✓ Users can decide what information is then passed to the Bill of Material

Where to find:

SOLIDWORKS Electrical > Component Properties > Manufacturing Part > Properties

(or)

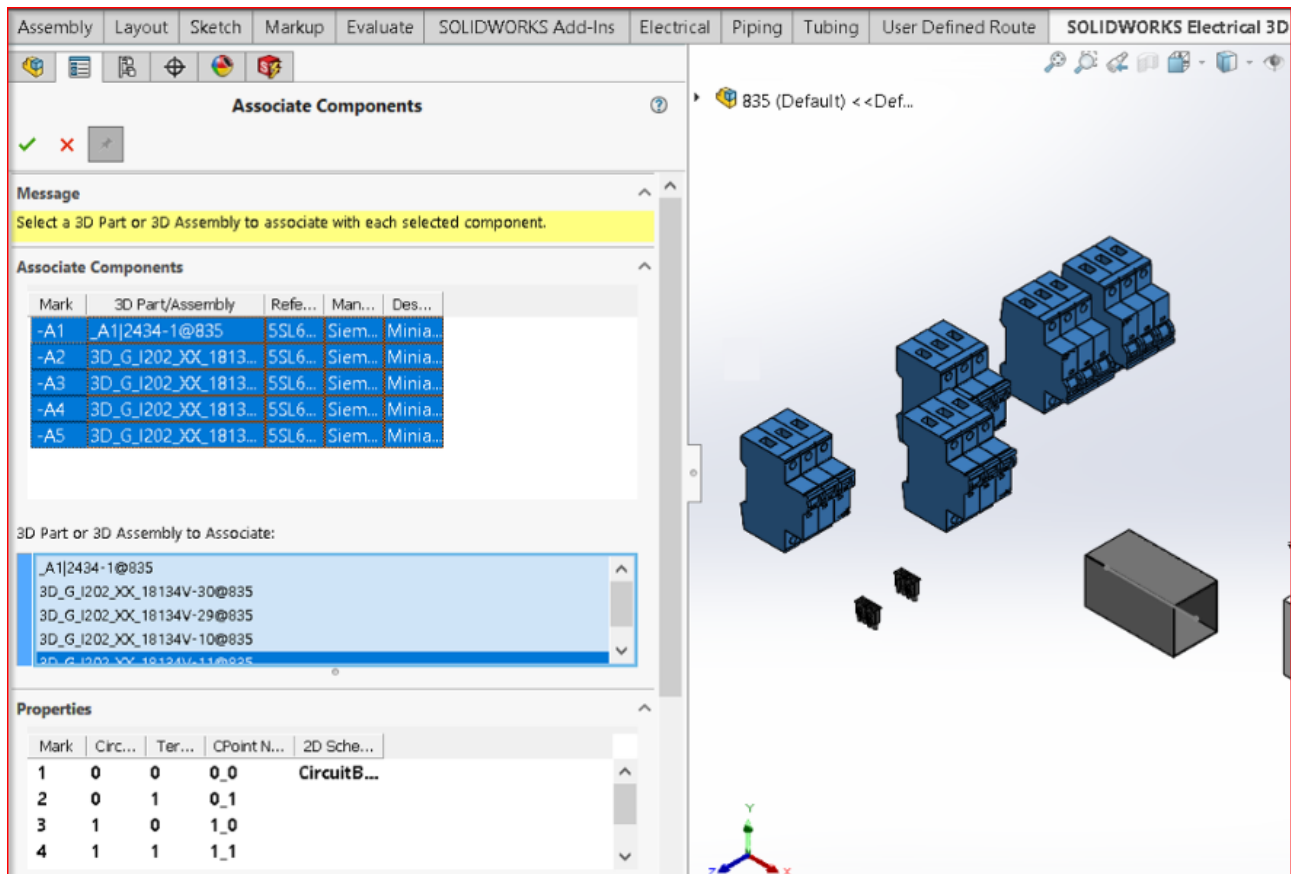


Improvements to Associate Feature in Electrical 3D

Speed association between schematic-based data (marks) and corresponding component models in 3D Enhancements now enable:

- ✓ Associating multiple marks to the associated 3D components in one command selection
- ✓ During selection (association) of the 3D components, electrical connection point information is presented on screen

- ✓ Command is pinned by default to enable associating additional groups of marks to additional 3D components Overwrite prior selections to make bulk updates
- ✓ Associate nested marks by selecting only the top level mark; the nested marks are automatically selected
- ✓ For subassemblies, selecting a lower level item provides the option to select the entire subassembly



Improvements to Electrical Manager tree in Electrical 3D

Improvements to Electrical Manager tree in Electrical 3D Generated new icons to represent the different states of a component in any SOLIDWORKS Electrical project. New icons provide a quick, visual indication of the component state in a SOLIDWORKS Electrical Project. Electrical Manager icons now visually indicate the state of Components:

- ✓ Not Associated to 3D * Associated to 3D
- ✓ Associated to 3D but Suppressed
- ✓ Associated to 3D but Hidden
- ✓ Associate to D in an alternate Location
- ✓ Associated to an Assembly
- ✓ Associated to an Assembly and Suppressed
- ✓ Associated to an Assembly and Hidden



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Icons denoting different states	Location	Component	States
	L1	F1	Not Associated
		F2	Associated to a part
		F3	Associated to a part & suppressed
		F4	Associated to a part & hidden
	L2	K1, K2, K3	Component associated in other locations
	L3	A1	Associated to an assembly
		A2	Associated to an assembly & suppressed
		A3	Associated to an assembly & hidden

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