SolidWorks Electrical 2D Schematics

	Feature	SOLIDWORKS Electrical Schematics Professional
1	**Single-line Schematics** Electrical system planning tool for creating complex embedded electrical system utilizing simple pictorial representations of electrical components and interconnectors.	✓
2	**Multi-line Schematics** Schematic creation tool with a simplified user interface optimized for simplification of repetitive tasks.	✓
3	**Mixed Schematic** Combine both single-line and multiline drawings on the same schematic, while maintaining associativity.	✓
4	**2D Cabinet Creation** Generate 2D panel representations from an electrical schematic, with 2D outlines of electrical components.	✓
5	**Electrical Component and Symbol Library** Extensive library of industry-standard schematic symbols (IEC, ANSI, JIS, GB) combined with a database of manufacturer parts to provide an easily customizable and adaptable parts database through easy-to-use import tools.	✓
6	**Design and Reuse** Suite of integrated tools for intelligent cut and paste, an easy-to-access selection of "favorite" components and circuit design elements, and the ability to reuse non-SOLIDWORKS Electrical design elements though easy-to-use import wizards.	✓
7	**Automated Terminal Drawing Creation** Automatically generate terminal drawings based on and synchronized with the real-time design.	✓
8	**Automated Contact Cross-Referencing** Electrical contacts are automatically cross-referenced in real time and synchronized based on availability and type of contacts from manufacturer-specific components.	✓
9	**Advanced Formula Manager**	✓

	From wire naming to project name formulas, SOLIDWORKS Electrical includes enhanced formula capabilities.		
10	**Electrical Component and Symbol Library Management** Integrated Symbol Library that provides easy access to electrical design elements and components.		✓
11	**SOLIDWORKS Electrical Content Portal** Web-based content portal providing access to an extensive library of industry-standard schematic symbols and a database of manufacturer parts.		✓
12	**Enhanced SOLIDWORKS PDM Connector** Enhanced PDM interface providing electrical and mechanical data management in one system based on proven SOLIDWORKS PDM capabilities.		✓
13	**Report Generation** Automatically generate reports based on real-time design database queries, with custom reports possible via integrated custom report creation tools.		✓
14	**Report Generation - Customized** Customize the look and content of your reports. Use the integrated SQL editor to display any data from your designs including writing custom Design Rule Checks.		✓
15	**Link to SOLIDWORKS 3D CAD** SOLIDWORKS Electrical Schematics linked to 3D SOLIDWORKS assemblies, facilitating verification of proper fit, planning of all wire, cable, harness routes, and calculation of all wire lengths prior to any assembly.		✓
16	**Common ECAD and MCAD Database** SOLIDWORKS Electrical Schematics are bi-directionally linked and allow multi-user interaction in real time. ECAD and MCAD share a common database, ensuring consistency and facilitating creation of a single, unified BOM.		✓
17	**PLC Tools** The Programmable Logic Controller (PLC) management tools automate many PLC wiring design tasks, along with the ability to import PLC data and labels.		✓
18	**Dynamic Connector Tools** Powerful, easy-to-use connector wizard helps simplify the creation, design, and use of electrical connectors.		✓

19	**Real-time Collaboration** Synchronized, bi-directional environment enables multiple users to work on the same project simultaneously in real time for easier project collaboration.	✔
20	**Real-time Synchronization** SOLIDWORKS Electrical synchronizes all project design data in real time, bi-directionally in a multi-user collaborative environment between 2D schematics and the 3D model. This synchronization unifies key information (such as Bill of Materials (BOM) and design data) between design disciplines and users.	✔
21	**Deferred Update Mode** Enhances schematic performance by minimizing network traffic and deferring real-time project updates. This technology provides a performance boost for large projects and users who work remotely.	✔
22	**Custom Part Library Classification** Create new folders with custom titles to tailor the parts library.	✔
23	**Excel Automation** Enhanced support of index and passive symbols.	✔
24	**User Rights Management** Enable different levels of access control to various functionality.	✔