



		STANDARD
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*	*	
*	*	✓
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	ELECTRICAL 3D <u>with</u> Electrical schematics Professional	ELECTRICAL SCHEMATICS Professional	ELECTRICAL SCHEMATICS Standard
Electrical Design in 3D CAD	1		
Ease of use with SOLIDWORKS Assemblies.			
 Place, insert, or remove 3D CAD models for electrical 			
components in a project			
 Fully control paths for routing wires, harness, and cables to follow 			
 Automatic routing due to schematics controlled connectivity 			
 Associate existing 3D models to electrical componentry 			
 Allow for planning and documentation of route paths and 			
associated data (such as length of wires, cables, and			
harnesses within the system)			
 Facilitate the verification of proper fit, planning of all wire, 			
cable and harness routes, and calculation of all wire lengths			
prior to any assembly			
3D Electrical Cabinet Design	1		
Utilize existing CAD designs as well as SOLIDWORKS automation			
tools to create comprehensive electrical 3D cabinet designs and			
documentation. This cohesive environment is synchronized in real			
time without the use of external files and can utilize existing CAD			
designs.			
Single-line Schematic	1	*	✓
(AKA Line Diagram) Create complex embedded electrical systems			
utilizing simple pictorial representations of electrical components			
and interconnectors. Functionality is perfect for documenting			
Ethernet connectivity, positions of devices on equipment layouts,			
and more.			
Multi-line Schematics	1	✓	✓
Create schematics with an easy-to-use interface optimized for			
simplification of repetitive tasks.			
Mixed Schematics	✓	✓	✓
Combine both single-line and multi-line drawings on the same page	•	· · · · · · · · · · · · · · · · · · ·	*
while maintaining associativity.			
2D Cabinet Creation	1	1	✓
Generate 2D panel representations from an electrical	•	<u> </u>	<u> </u>
schematic, with 2D dimensioned outlines of electrical			
components.			





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Design and Reuse	1	✓	✓
Speed designs with 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 through easy-to-use import wizards.		·	v
Automated Terminal Drawing Creation	✓	✓	✓
Generate terminal drawings automatically based and synchronized to the real-time design.		·	
Report Generation	*	4	✓
Generate reports automatically from real-time design database queries.			
Automated Contact Cross-Referencing	*	*	✓
Sync and cross-reference electrical contacts automatically in real			
time based on the availability and type of contacts from			
manufacturer-specific components.			
Advanced Formula Manager	*	1	✓
Take advantage of enhanced formula capabilities from wire			
naming to project name formulas.			
Electrical Symbol Library	*	1	✓
Access an extensive library of industry-standard schematic			
symbols (IEC, ANSI, JIS, GB) to easily customize and adapt parts			
with easy-to-use import tools. Symbol Editor to Edit index and			
passive symbols with enhanced tools.			
Marks and Wires Management	*	1	*
Take advantage of number group options, reuse of unused wire marks, natural ordering support and enhanced DWG import capabilities.			
Dynamic Connector Tools	✓	*	
Simplify the creation, design and use of electrical connectors with the powerful, easy-to-use connector wizard.			
Customizable Reports & Documentation	*	4	
Automatically generate reports based on real-time design			
database queries, with custom reports created via integrated custom report-creation tools. Develop custom reports using integrated custom report creation tools.			
integrated custom report creation tools.			





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PLC Tools	4	4	
Automate many PLC wiring design tasks and import PLC data and labels with Programmable Logic Controller Management (PLC)			
management tools.			
Multi-level Terminals Strip Support	*	✓	
Manage 3D terminal strips and renumber/set component			
terminal properties, as well as add manufacturer parts, circuits			
and accessory components to terminal strip.			