

	Schem. Standard	Schem. Pro	Electrical 3D	Electrical Routing
Real-time Synchronization	X	X	X	
Electrical Component and Symbol Library	X	X	X	
EXTENSIVE library of industry-standard schematic symbols and a database of manufacturer parts.	X	X	X*	
Schematic Design Analysis	X	X	X	
SOLIDWORKS Electrical provides a broad range of real-time and report-based tools for both design and electrical performance validation.	X	X	X	
Report Generation	X	X	X	
Automatically generate reports based on real-time design database queries.	X	X	X	
SolidWorks Enterprise PDM Integration	X	X	X	
Integration with SolidWorks Enterprise PDM for automated publishing of schematic data.	X	X	X	
Manufacturers Electrical Component Library	X	X	X	
Schematic Annotation and Documentation	X	X	X	
SOLIDWORKS Electrical provides a powerful, easy-to-use annotation, documentation, and reporting solution that incorporates the power and ease of DraftSight®, seamlessly integrated into the SOLIDWORKS Electrical collaborative design environment, to provide real-time annotation, documentation, and reporting for SOLIDWORKS Electrical projects.	X	X	X	
Single Line Schematic	X	X		
Electrical system planning tool utilizes simple pictorial representations of electrical components and interconnectors.	X	X		
Mixed Schematic	X	X		
Combine both single line and multiline drawing on the same schematic while maintaining associativity.	X	X		
Design and Reuse	X	X		
Tools to simplify design and reuse of electrical system data.	X	X		
Effortlessly create and maintain contact cross referencing that is automatically synchronized and updated in real time on the schematic drawing.	X	X		



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Multiline Schematic	X	X		
Traditional schematic creation tool with simplified user interface simplifies repetitive tasks.	X	X		
Advanced Formula Manager	X	X		
From wire naming to project name formulas, SOLIDWORKS Electrical includes enhanced formula capabilities.	X	X		
2D Cabinet Layout	X	X		
Automated Contact Cross Referencing	X	X		
Mechatronic Design		X	X	
SOLIDWORKS Electrical provides a powerful, easy-to-use solution to integrate electronics into electro-mechanical designs. SOLIDWORKS Electrical provides a comprehensive solution for schematically driven embedded electronics, and detailed electrical interconnect seamlessly into mechanical design, within a the perfect environment for complex mechatronic design.		X	X	
Embedded Electrical System Design Planning		X	X	
SOLIDWORKS Electrical 3D provides a powerful, easy-to-use planning tool for rapid design of schematically defined embedded electrical systems in the SOLIDWORKS 3D CAD model.		X	X	
Real-time Collaboration		X	X	
Dynamic Connector Tools		X		
Powerful, easy-to-use connector wizard helps simplify the creation, design, and use of electrical connectors.		X		
Automated Terminal Drawing Creation		X		
PCB Integration		X		
PLC Tools		X		
Electrical Harness Design Planning		X	X	X
SOLIDWORKS Electrical 3D™ creates a virtual “design in-place” electrical harness development environment.		X	X	X
FleX Cable		X	X	X
3D			X	X
Electrical Design in 3D CAD			X	



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SOLIDWORKS Electrical 3D™ provides easy-to-use CAD-embedded, electrical system design to integrate electrical schematic design data from SOLIDWORKS Electrical into a SOLIDWORKS 3D CAD model.			X	
Electrical 3D Cabinet Layout			X	
Generate 3D cabinet representations from an electrical schematic showing electrical components.			X	
Auto-routing Technology			X	

