

SOLIDWORKS ELECTRICAL TOP ENHANCEMENTS IN 2024

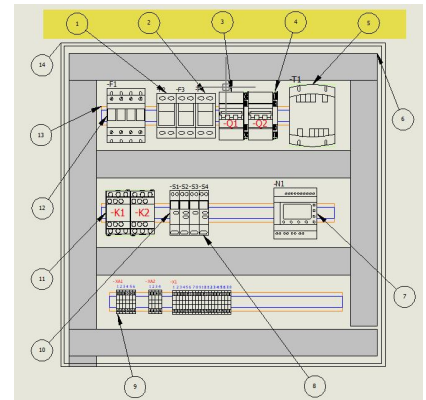
SOLIDWORKS ELECTRICAL :

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.

2D Cabinet - Inserting Auto Balloons

Improve the readability of the schematics information with balloons

- Ease manufacturing with automatic annotation of 2D cabinet layout to improve device location
 - Several layout available, linear / rectangular
 - Optimal placement of balloon entities
 - Balloon attached to the pointed 2D footprint
 - Filtering on multiple instances / terminals
- Dynamic BOM table referring to balloons for better component purchase / mounting
 - BOM report table embedded in 2D cabinet document
 - Showing item according to ballooning insertion option
 - Hyperlinks to go to footprint from table row



N°	Manufacturer	Reference	Qty	Mark
1	Legrand	005823	1	=F1+L1-F2
2	Legrand	005820	2	=F1+L1-F3 =F1+L1-F4
3	Schneider Electric	21113	2	=F1+L1-Q1 =F1+L1-Q2
4	Schneider Electric	21120	2	=F1+L1-Q1 =F1+L1-Q2
5	Legrand	042321	1	=F1+L1-T1
6	Schneider Electric	AK2GD5050	6	
7	Schneider Electric	TWDLCA16DRF	1	=F1+L1-N1

Reports - Shortening Lists Using Ranges

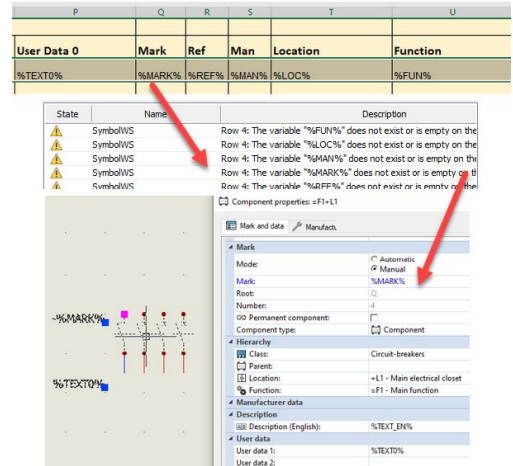
- Reduce to range like « A1...A9 »
 - For long list of « enumeration » such as component mark, when « merge rows » is ON
 - Not specific to mark but to any text matching pattern « text/number/text »
 - Easy setup, activate range separator in report configuration

ABB			
	参考	标注	说明
1	3GAA 181 102-BBC	-M1, -M3, -M4, -M5, -M6, -M7, -M8, -M9, -M10, -M11, -M12, -M13, -M14, -M15	電機3相LB型, 2極
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	参考	标注	说明
1	3GAA 181 102-BBC	-M1, -M3 ... -M15	電機3相LB型, 2極

- Better readability.

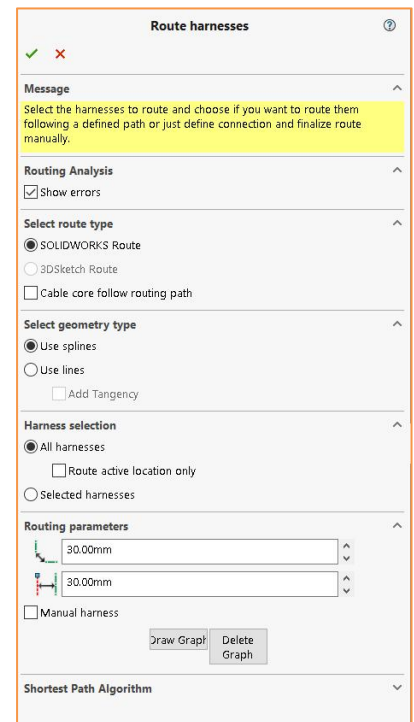
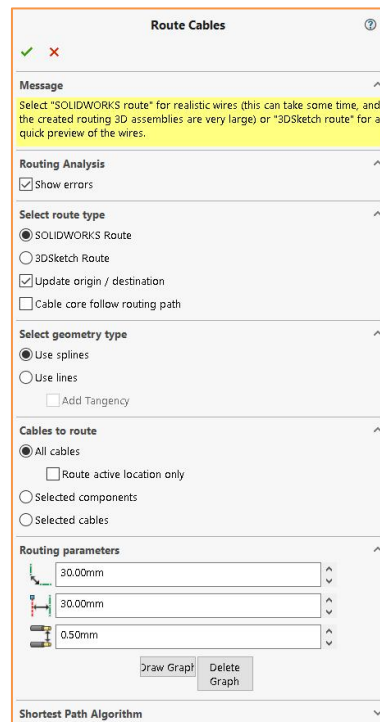
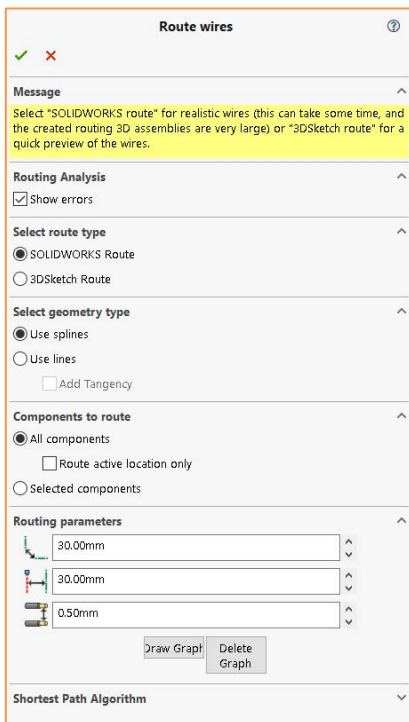
Excel automation - Reset undefined macro variable

- Every %macro% cannot be explicitly cleared
 - Save time not typing macro name just to reset it
 - Excel file is easier to read/modify,
 - Reduce number of errors / warning in generation report. Highlight real problems
- Specific behavior
 - Create automatic mark
 - Remove associated part from component
 - Assign default location / function
- Controlled by project configuration



Limit routing of wires / cables to active location only

- Ability to define the depth of the routing process by limit the routing process to the active location instead of repeatedly rebuilding all the sub-levels (sub-locations) routes
- This capability reduces the overall design time spent while working on large electrical projects with nested locations.



Provide an option to filter Auxiliary & Accessory parts in SWE 3D

- Visibility icon in the "Electrical Management" panel has been replaced by the funnel control
- Filter manufacturer parts based on selection

