

# White Paper

## AutoCAD Electrical 2023 – Symbol Key List

### AutoCAD Electrical

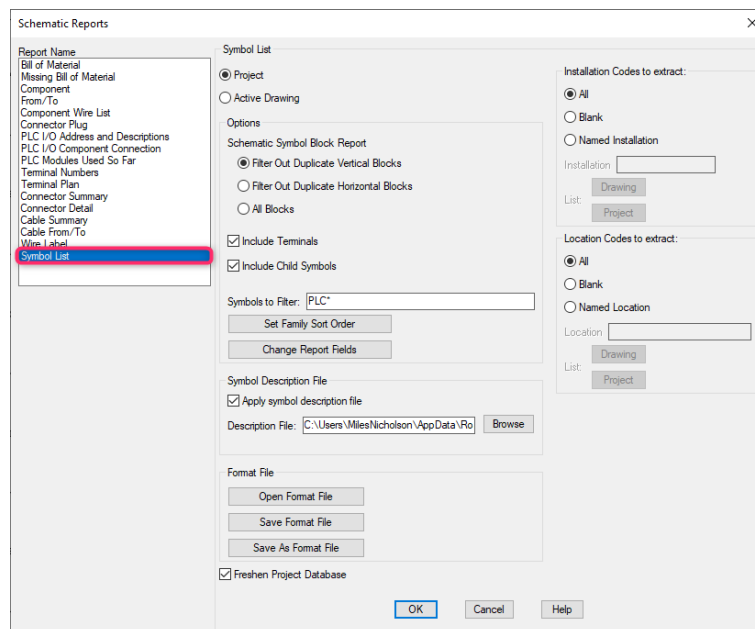
Guide by: Miles Nicholson

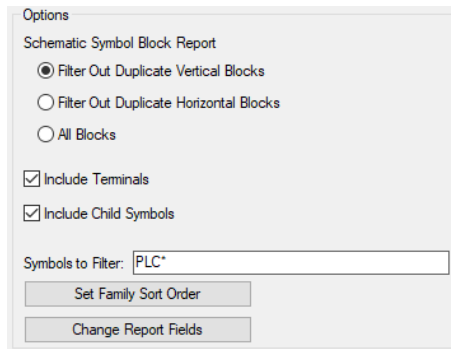
The schematic report lists the symbols used in the project along with its description in a table. You can also surf through a particular symbol that is used in various locations of the project.

To create a symbol table:

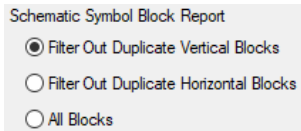


Select *Reports* ribbon tab > *Schematic* pane >





- Symbols to Filter:  You can exclude PLC\* symbols as these are generally too big to fit within a “thumbnail” picture



- Depending on the normal orientation of your circuits, you can filter out either vertical or horizontal versions of the same symbol

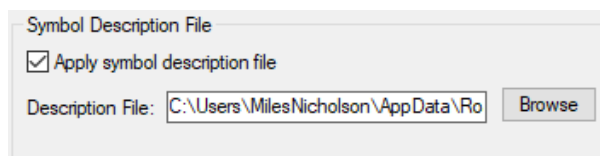
- Include Terminals You can include/exclude terminals

- Include Child Symbols You can include/external child symbols

- You can define the placement of the thumbnail pictures based on their component category

- You can change the fields to be reported in the report preview. This doesn't affect the symbol key (thumbnails) however. TAGNAME should be included if you wish to have a surfable report.

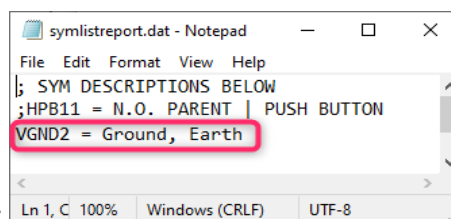
When the symbol key is drawn, a picture of the symbol is positioned in a box with a description of what the symbol is. AutoCAD Electrical has pre-defined descriptions of all the standard symbols that are supplied “out of the box”. It doesn't however have a description of any custom symbols that may have been created by the user/company.



The *symlistreport.dat* file is a text file that can be edited to include additional blocks:

{BLOCK NAME} = {BLOCK DESCRIPTION}

To edit, select  > highlight *symlistreport.dat* file > right click > *Open*



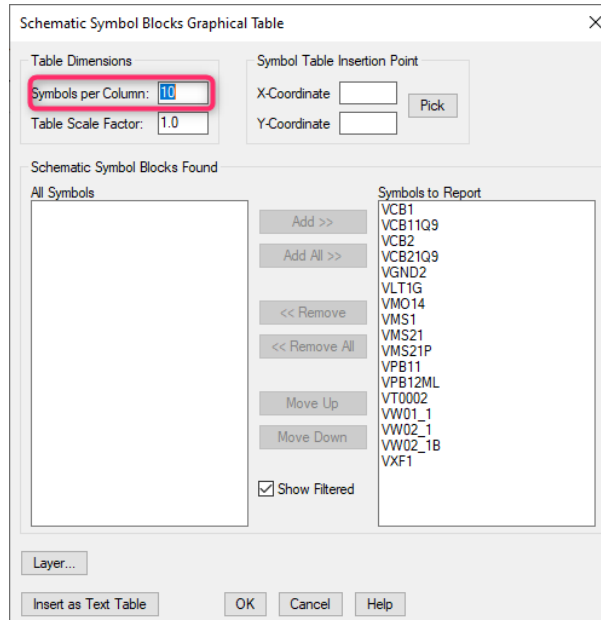
Example:

Select

Select

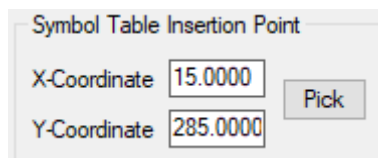
Select

Select



If using an A3 EN5457-sized title border, we found that setting the *Symbols per Column* value = 10 to be optimal.

Select  to define the insertion point




















Select

The symbol key list table will be inserted.

- If a description of a component is missing, edit the *symlistreport.dat* file
- If a symbol is missing, ensure the symbol is saved in the associated library
- Description text defined in the *symlistreport.dat* file will be displayed in uppercase in the symbol key table
- The table is similar to an OLE object so will update if the command is rerun
- The marking menu (right-click options) are context sensitive to the symbol key table
- You can surf from the symbol key table to the associated symbol
  - You can not surf from the symbol to the symbol key table

1 2 3 4 5 6 7 8

A		Circuit Breaker		Push Button NO Momentary
		Magnetothermal		Mushroom Head NC Latching
B		Circuit Breaker 2nd+ Pole		Terminals
		Circuit breakers		Cables, multi-conductor cables
C		GROUND, EARTH		Cables, multi-conductor cables
		Green Light		Cables, multi-conductor cables
D		3 Phase Motor (4 Connections)		Transformer, Single
		Motor Starter - Coil		
E		2nd+ Motor Starter NO		
		Motor Starter 1 Pole NO (Power)		

MC	DESCRIPTION	DATE	NAME	CHECK	APPD	PROJECT CADLINE SAMPLE DOL STARTER TRAINING	DESCRIPTION CONTROL CIRCUIT	DRAWING No.	SHEET 3-3



0330 551 9420



sales@cadline.co.uk



www.cadline.co.uk