AUTOCAD ELECTRICAL QUICK REFERENCE GUIDE

AutoCAD® Electrical File Descriptions & Directory Locations

Reference files should be located in a shared directory or folder when you want to share changes to files with all users for common projects.

ENVIRONMENT FILE	CIRCUIT BUILDER	
Windows [®] 7/8/10 Location: C:\Users\{username}\Documents\Acade{version}\AeData\wd.env	Windows® 7/8/10 Location: C:\Users\Public\Public Documents\Autodesk\AcadE {version}\Support\{country code}	
SYMBOL BLOCK LIBRARIES	ACE_CIRCUIT_BUILDER.XLS: This is the reference file that the Circuit Builder tool	
Windows® 7/8/10 Location:	uses.	
C:\Users\Public\Public Documents\Autodesk\AcadE {version}\Libs	DIN RAILS	
INSERT COMPONENT ICON MENUS	Windows® 7/8/10 Location:	
Windows® 7/8/10 Location: C:\Users\{username}\AppData\Roaming\Autodesk\AutoCAD Electrical {version}\{release}\{country code}\Support	C:\Users\{username}\My Documents\Acade {version}\AeData\{country code}\ Catalogs WDDINRL.XLS: This is the reference file that generates Din Rails.	
All .DAT Files (i.e. ACE_NFPA_MENU. DAT): These are text files of all of the icon menus of all of the symbols per electrical standard that	SHARED REFERENCE FILES	
you can also customize to meet your needs.		
DATABASES	Windows [®] 7/8/10 Location:	
Windows [®] 7/8/10 Location: C:\Users\{username}\Documents\Acade{version}\AeData\	C:\Users\{username}\AppData\Roaming\Autodesk\AutoCAD Electrical {version}\{release}\{country code}\Support	
{country code}\Catalogs	DEFAULT.INST : This file provides preset values for installation codes.*	
DEFAULT_CAT.MDB: This is the Part Catalog Database.	DEFAULT.LOC : This file provides preset values for location codes.*	
FOOTPRINT_LOOKUP.MDB : This is the database for mapping the graphical footprint assignments to catalog part number assignments.	 DEFAULT.WDA: This is the reference file for user-defined attributes on blocks.* DEFAULT.WDT: This is the attribute mapping support file for the Title Block Update tool.* 	
SCHEMATIC_LOOKUP.MDB: This is the database for mapping panel footprints and terminal representations to the equivalent	DEFAULT_WDTITLE.WDL : Customizes the generic LINEx labels in the various title block and project information dialog boxes.*	
schematic component block names.	WD_DESC.WDD: This contains preset component descriptions, accessible by clicking Defaults on the Insert/Edit Component dialog box.	
WD_LANG1.MDB: This is the default language table.	Family-specific versions of the file can also be created, such as <i>pb.wdd</i> .	
WD_PICKLIST.MDB : This is the user-defined pick list that schematic or panel symbols can be inserted from.	WD_RATINGS.WDR : Generic Ratings file, accessible by clicking the Defaults button in the Show all Ratings subdialog box of the Insert/Edit Component db.	
PLCs	WDSRCDST.WDD : Generic list of descriptions for Source & Destination signals, accessible by clicking the Defaults button in the Insert Source/Destination dbs.	
Windows [®] 7/8/10 Location:		
C:\Users\{username}\My Documents\Acade {version}\AeData\ {country code}\ Plc ACE_PLC.MDB: database for creating and modifying PLC modules.	Windows® 7/8/10 Location: C:\Users\{username}\AppData\Roaming\Autodesk\AutoCAD Electrical {version}\{release}\{country code}\Support\User	
	DEFAULT.WDU : This file saves the settings in the Title Block Update dialog box when the "Save" button is selected in said dialog box.	
Electrical {version}\{release}\{country code}\Support\User	DEFAULT.WDW : Maps color and gauge wire descriptions based on wire layers.	
<custom name="">.WDI (default settings in WDIO.LSP): This is the PLC settings file for the Spreadsheet to PLC I/O Utility. (Note: If you do not create a WDI file, the default settings found in the WDIO.LSP file will be used.) Windows® 7/8/10 Location:</custom>	NOTE : You can always override the shared reference files with by locating a copy of the reference file in the same directory as the project (WDP) file. You can also make a project-specific reference file in the same directory as the project	
C:\Program Files\Autodesk\AutoCAD {version}\Acade\Support\ en-US\Shared	(WDP) file. Just rename the copied reference file to the same name as the project, for example <i>projectname.wdt</i>	
WDIO.LSP: The program file for the Spreadsheet to PLC I/O utility.	*These files do not exist in these locations by default. These locations are where you	
WDIO.DCL : The companion dialog definition file for the Spreadsheet to PLC I/O utility	would create them as txt files if you want them located in shared directories.	

	SCHEMATIC ATTRIBUTES FOR PARENT AND CHILD COMPONENTS		
FAMILY CODES	TAG1: (Parent only) required component tag name (255 max) POSn: mark switch position text where "n" is the position		
AM: Ammeters	TAG1_PART1, TAG1_PART2, and TAG1_PARTX:	number digit (POS1 - POS12; 36 characters max)	
AN: Buzzers, horns, bells	Alternate to using a single TAG1 attribute in orde		
CB : Circuit breakers	to split the TAG into two pieces	STATE : Contact state text to denote relationship between	
CO : Connectors/pins	TAG2: (Child only) Copy of the parent component's ta	-	
CR: Control relays DI: Din Rail	TAG2_PART1, TAG2_PART2: same as above	RATINGn : Rating value where "n" is the rating number digit	
DN : Device networks	COPYTAG : a copy of the TAG value	(RATING1 - RATING12; 60 characters max)	
DO : Diodes	MFG: manufacturer name or code (24 characters max		
DR: Drives	CAT: catalog part number assignment (60 characters n ASSYCODE: optional subassembly code (60 characters		
DS : Disconnect switches	ITEM : the item or detail number for a component		
EN: Enclosures/hardware	FAMILY : component's family type, used as a check at		
FM: Frequency meters	FAMILY: component's family type, used as a check at the time child components are linked to a parentWDTAGALT: (Parent only) for a peer-to-peer relationship WDTYPE: Attribute used to define the component category		
FS: Flow sensors	DESC1, DESC2, DESC3: component's description (60 m		
FT: Foot switches	INST : component installation code (255 characters ma		
FU: Fuses	LOC : component location code (255 characters max)	X?TERMn: Wire connection attributes where an external	
LR: Latching relays LS: Limit switches	XREFNO , XREFNC : (Parent only) normally open and	wire connects to the origin point of the attribute	
LT: Lights, pilot lights	normally closed cross-reference annotatio	n X?TERMDESCn: Wire connection description attributes that	
MISC: Miscellaneous	XREF : used to include non-NO/NC references	match up with X?TERMn (128 characters max)	
MO: Motors	COMMON: defines which TERMxx attribute receives t	he TERMn : Terminal pin number (ten characters max)	
MS: Motor starters/contactors	first PINLIST value	WD_JUMPERS: to internally jumper terminals together	
NP: Nameplates			
OL: Overloads	SCHEMATIC SYMBOL NAMING CONVENTION QUICK REFERENCE		
PB: Push buttons			
PE: Photo switches	HPB12M		
PLCIO: Programmable logic	ΠΡΟΙΖΙΝΙ		
controllers PM : Power meters	2 4		
PNEU-ACT: Actuators	1 The first character is either H or V for horizontal or vertical wire insertion, respectively.		
PNEU-ALU: Lubricators		pe (for example, PB for push buttons, CR for control relays, LS for	
PNEU-CYL: Cylinders	limit switches).	acts or a 1 for everything else (narent or stand-alone components)	
PNEU-FLC: Flow Control	 3 The fourth character is generally a 2 for child contacts or a 1 for everything else (parent or stand-alone components). 4 If the symbol is a contact, then the fifth character is a 1 for normally open or 2 for normally closed. 		
PNEU-FLT: Filters		naming convention. They are used to keep names unique.	
PNEU-MET: Pressure Gauges	NOTE : Do not use "HH", "HV", "VH", or "VV" as the first two characters of a symbol block name.		
PNEU-MFL: Silencers		st two characters of a symbol block hame.	
PNEU-MNF: Manifolds PNEU-MOT: Motors	TERMINALS:		
PNEU-NOZ: Nozzles	The first two characters are "HT." The third character is "0" if the wire number does not change through the terminal "1" if the terminal symbol		
PNEU-OPR: Push buttons	The third character is "0" if the wire number does not change through the terminal, "1" if the terminal symbol should trigger a wire number change.		
PNEU-PMP: Pumps	The fourth character is an underscore (_) if the terminal carries no attributes for AutoCAD Electrical to process		
PNEU-TNK: Reservoirs	(such as a dumb terminal symbol). Otherwise, the fourth through eighth character positions of the symbol file		
PNEU-VAC: Suction	name are user-defined.		
PNEU-VLV: Valves	AUTOCAD ELECTRICAL SUPPORT DIRECTORIES QUICK REFERENCE		
PS : Pressure switches	Windows 7/8/10 Location:		
PW : Power supplies PX : Proximity switches	C:\Users\{username}\AppData\Roaming\Autodesk\AutoCAD Electrical {version}\{release}\{country code}\Support\		
RE : Resistors	C:\Program Files\Autodesk\ AutoCAD {version}\Acade\Support\{country code}\		
SS : Selector switches			
SU : Surge suppressors	C:\Users\{username}\AppData\Roaming\Autodesk\AutoCAD Electrical {version}\{release}\{country code}\Support\		
SW: Toggle switches	C:\Users\Public\Public Documents\Autodesk\AcadE {version}\Support\{country code}\		
TD: Timer relays	INCLUDED SYMBOL LIBRARIES	REPLACEABLE PARAMETERS	
TRMS: Terminal blocks	NFPA (U.S./Inches)	%F: Component family code string (for example, "PB," "SS," "CR,"	
TS : Temperature switches	IEEE (U.S., International/Millimeters)	"FLT," "MTR")	
VM: Volt meters WO: Cables, multi-conductor	JIC (U.S./Inches - Legacy library only)	%S: Sheet number of the drawing (for example, "01")	
cables	IEC-60617 (Europe, International/Millimeters)	%D: Drawing number	
WW: Wire ways	IEC Legacy (Millimeters - Legacy library only)	%G : Wire layer name	
XF : Transformers	JIS (Japan/Millimeters)	%N: Sequential or Reference-based number applied to the	
	GB (China/Millimeters)	component	
	AS (Australia/Millimeters)	%X : Suffix character position for reference-based tagging (not	
	PNEU (Pneumatic/Inches & Millimeters)	present = end of tag)	
\land AUTODESK.	HYD (Hydraulic/Inches & Millimeters)	%P: IEC-style project code (default for drawing) %I: IEC-style installation code (default for drawing)	
	PID (Piping & Instrumentation/Inches & Millimeters)	%L: IEC-style location code (default for drawing)	
Tiffany Bachmeier, ACI		%A : Project drawing list's SEC value for active drawing	
Manager, Consulting Delivery - MFG		,	

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%B: Project drawing list's SUB-SEC value for active drawing