

AutoCAD Electrical Advanced: Looking Under the HOOD

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MA2730

Now that we have been using AutoCAD Electrical software in industry for a while, let's see what is under the hood that can make our life a little easier. The class covers several topics, including creating fixed-unit programmable logic controller (PLC) modules, creating advanced blocks, understanding the reason behind all of the databases, and structuring your software to optimize it in a network environment.

Learning Objectives

At the end of this class, you will be able to:

- Create a fixed-unit PLC
- Create advanced blocks
- Describe the purpose for each of the databases
- Network your AutoCAD Electrical installation

About the Speaker:

Solution Consultant for D3 Technologies, Scott has taught and implemented AutoCAD Electrical in a variety of industries. 13 years of industry experience as a Senior Controls Design Engineer on a global scale. Interviewed and published in Controls Design Magazine on "Who's Responsible for Machine Safety", Scott has been considered an expert on machine design safety for North America and European Union Countries.

Introduction

Most Designers/Engineers utilize AutoCAD Electrical (ACADE) in different ways in order to get their desired output. This class will focus on four areas of interest in ACADE that will assist users in getting the most out of their software.

As a Solution Consultant, I have had the pleasure of helping several electrical design departments setup and implement their software. While each implementation has its challenges, the versatility of ACADE proves to help the transition.

Fixed Unit PLC

In some cases the standard parametric PLC modules will not document a device quite the way needed for a customer or shop requirement. In this case we will need to create a fixed unit plc.



STEP 1: Create needed Geometry

Users create geometry needed to represent the PLC. With Symbol Builder, select objects and choose an Insertion point. The attribute template to use will be Horizontal Parent < (GNR) Generic.



STEP 2: Family Code & Attributes

The Family Code attribute Type must be PLCIO. This will tie the new symbol to the PLCIO table in the default database. Users can add an optional Line1 and Line2 for Rack and Slot Number.

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STEP 3: Wire Connection Types

When choosing wire connections select "others". This will bring up all options of the wire connections.

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STEP 4: Wire Connection: Fixed PLC

For PLC I/O points we will use the "Fixed PLC" style. Choose left directions for inputs or right for output connections. The number of terminals and tags for each can be determined in this dialog box.

Configuration		Number and Offs	set Distance	
Terminal style:	Fixed PLC	Number:	10	
Connection direction:	-O Left	 Select on so 	reen	
Scale:	1.0000	Row offset:	0.0000	
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Convert>>	Delete Properties			

STEP 5: Done: Save Symbol

When complete, save the block with the name PLCIO_xxx. Fixed unit PLC components do not follow the same naming scheme as typical devices.

🔥 Close Block Editor: Sa	ave Symbol		— X
Symbol		Base point	
Block Wbloc	k	Specify on screen	
Orientation:	<user defined=""></user>	Pick point X: 0.0000	
Catalog lookup		Y: 0.0000	
Symbol name:	<user defined=""></user>	7. 0.0000	
WDBLKNAM	HAM -	Σ. 0.0000	
Туре:	<user defined=""></user>	Image	RG
Contact:	<not applicable=""></not>		
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Symbol name:	PLCIO_AD100	Name (.png) PLC	0_002
File path:		File path:	
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5 error(s) found in the sym	bol Details		
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Advanced Block Creation

AutoCAD blocks are the foundation of the ACADE package. When we insert a component such as a pushbutton (HPB11) the block being used is intelligent. A block as simple as the HPB11 (NO pushbutton) holds data in attributes that are crucial for such things as reporting, children/parent location, and whether it is part of a BOM assembly.

When we create new symbols we need to understand what each attributes purpose is and if it is required for the symbol we are building.

A Enhanced Attribute Editor	×
Block: HPB11	Select block
Attribute Text Options Properties	Installation Code Value
Tag Prompt	Value
INST BOM A	Assembly Number
ASSYCODE	Pin Numbers
TERM01	Mine Number
X4TERM01	
X11ERM02	
	2 Dashed Linked Line
	Connections
	OP-STA Location Code
MEG	AB Component
CAT	800H-BR6D1 MFG/Part #
CONTACT	NO a Lookup Table
FAMILY	
XREF 🗲	Parent/Child Location
DESC2	FORWARD Descriptions
DESC1	START
TAG1	PB501A 🔶 Component Tag
Value: PB501A	
Apply OK	Cancel Help

Creating New Family

While AutoCAD Electrical has the majority of needed families, there could be times that users will need to create a new family. Below identifies the steps needed to create a new family.

- Create new table in the schematic lookup database
- Create an appropriate attribute template
- Create symbols needed
- Create icon menu shortcuts

Create New Table – First step will be to create a new table for the family to add.

Parts Catalog C:	\catalogs\default_c	at.mdb								×
Q. ₩ Q. ₩	Database	: Default	•	Table:	РВ	-	Catalog -	Search Database	Q	
CATALOG -	MANUFACTURE -	DESCRIPTION -	TYPE -	STY	New Table	~	TACTS -	MISCELLANEOL -	ASSEMBLYCODI -	- A
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800EM-E2	AB	PUSH BUTTON	22.5mm EXTEND	BLAC	CA			METAL OPERAT	800E-2ACROSS	•
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Create Attribute Template – Attribute templates are nothing more than a list of attributes to use for a particular family. If one does not exist for the family you need simply copy, modify, and rename one that is similar. All attribute templates reside in your standard schematic library (jic125, NFPA).

Attribute templates are name in the follow order: Example - AT_HP_CB.dwg

- AT = Attribute Template
- HP = Horizontal Parent
- CB = Family Code



ame:	Browse		
Select from drawing	Attribute te	mplate	
Objects	Library path	c .	
Specify on screen	C:\ACADE	Libs\NFPA - Brows	e
Select objects	Symbol:	Horizontal Parent	•
-	Type:	(GNR) Generic	-
Insertion point		(CB) Circuit breakers	
Specify on screen	Preview	(CR) Control relays	
	TICVICW	(DS) Disconnect switches (EU) Fuses	
Pick point		(GNR) Generic	_
		(LC) Light Curtain	
X: 0.0000		(LR) Latching relays (LS) Limit switches	
		(LT) Lights, pilot lights	
Y: 0.0000		(MO) Motors	
		(MS) Motor starters/contactors	
Z: 0.0000		(OL) Ovenoads (PB) Push buttons	
		(PE) Photo switches	
		(PW) Power supplies	

Create New Symbol/Icon Menu – The symbol can now be created using our new family

WD_Jumper

WD_Jumper Attribute is used to tie wire connections together. When tied together properly the wire number does not change as it passes through the connection point. In industry this attribute is used on such symbols as terminals and power distribution blocks.

- Identify connection points to tie together
- Enter the connection points into the WD_Jumper attribute



When creating your symbol add the WD_JUMPER attribute and map according to the wire connections created.



Electrical Databases and Tables

AutoCAD Electrical has many different databases and tables that it uses for such things as building parametric PLC modules, assigning pins, and mapping footprints (layout blocks) to a schematic part number. To get the most out of ACADE we need to understand what each database and table is used for and how to modify them when needed.

- Schematic Lookup Database (Tables that reside in Default_Cat Database)
- PLC Database (Standalone Database)
- Electrical Standards Database (Standalone Database)
- Pin List Database (Tables that reside in Default_Cat Database)
- Terminal Properties Database (Tables that reside in Default_Cat Database)
- Schematic Lookup Database (Standalone Database)
- Footprint Database (Standalone Database)
- LISTBOX_DEF (Table that resides in Default_Cat Database)

Schematic Lookup Database

The schematic database is for assigning Manufacture content to a schematic symbol. Components are based off of the family code (PB, CB, SS).

🔥 Parts Catalog C:	\catalogs\default_c	at.mdb						— X
2. 7. 8. 9	Database	: Default	• T	able: CB	•	Catalog - S	earch Database	Q
CATALOG 👻	MANUFACTURE 👻	DESCRIPTION -	TYPE 👻	RATING 👻	MISCELL	ANEOL 👻	MISCELLANEOL -	ASSEMBLYCODI 👻 🔺
Enter Text Here	Enter Text Here	Enter Text Here	Enter Text Here	Enter Text Here	Enter Te:	xt Here	Enter Text Here	Enter Text Here
T1B060TL-1	ABB	T1B Tmax CIRC	1-POLE CIRCUIT	60AMPS	RATED V	OLTAG	INTERRUPTING	
140M-F8N-C32	AB	IEC MOTOR CIR	3-POLE CIRCUIT	45AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-F8N-C45	AB	IEC MOTOR CIR	3-POLE CIRCUIT	45AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-B30	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-B70	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-C15	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-C30	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-C50	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-C70	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8P-D10	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-H8R-D10	AB	IEC MOTOR CIR	3-POLE CIRCUIT	125AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-J8P-D10	AB	IEC MOTOR CIR	3-POLE CIRCUIT	250AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-J8P-D12	AB	IEC MOTOR CIR	3-POLE CIRCUIT	250AMPS	RATED C	PERATI	MAGNETIC TRIP	
140M-J8P-D15	AB	IEC MOTOR CIR	3-POLE CIRCUIT	250AMPS	RATED C	PERATI	MAGNETIC TRIP	
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Show BOM Detail Filter by WDBLKN Use MISC_CAT ta Display subassen	s IAM value : CB1 able ably entries only for e	editing						
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PLC Database

The PLC Database is used for creating/editing parametric PLC modules.

ABB			^	Π		Termina	l Type		S	how	Optio Re-pro	onal ompt	Break After	Spacing Factor
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⊕ 1734			E	3	Terminal Point W	/ire Left			Always		No			
				4	Terminal Point W	/ire Left			Always		No			
i£⊢ 1747				5	Terminal Point W	/ire Right			Always		No			
				6	Terminal Point W	/ire Left			Always		No			
				7	Terminal Point W	/ire Right			Always		No			
				8	Terminal Point W	/ire Left			Always		No			
				9	Terminal Point W	/ire Left			When Including	Unused	No		(TT)	
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ttribute Tag	ompactLogix 1768-L43 1768-L43S 1768-L45S 1768-L45S ASSYCODE	CAT 1768-L45	T DE CONT	SC	INST E	LINE1 RACK %%1	LINE2 SLOT %%2	LOC	MFG AB	TAG PLC%N	TERM_	TERMD	ESC_X4TE	RM_

Electrical Standards

The electrical Standards database is used during the configuration of the Circuit Builder tool.

🔥 Electrical Standards Database Editor									×
Tables:	CATA	LOGSEL							
Default CATALOGSEL		MARKER	UI_SEL	LKUPTABLE	Load	PHASE	Voltage (V)	Speed (RPM)	
FEED	•	MTR03	1	MO	1	3	240	1800	
FILL MOTOR		Q001	6	DS	1	3	240	1800	
- OPT		Q001	6	FU	1	3	240	1800	E
XL&R_DESC		XF01	1	XF	1	3	240	1800	
AMP AL AWG NEC		FU00	1	FU	1	3	240	1800	
AMP_AL_MM2_NEC		Q001	6	DS	1.5	3	240	1800	
AMP_CU_AWG_NEC		Q001	6	FU	1.5	3	240	1800	
···· AMP_CO_MM2_NEC		XF01	1	XF	1.5	3	240	1800	
AMPG_AL_MM2_NEC		MTR03	1	MO	1	3	480	3600	
AMPG_CU_AWG_NEC		FU01	1	FU	1	3	480	3600	
- FILL_NEC		K01	1	MS	1	3	480	3600	
INSUL_AL_AWG_NEC		MTR03	1	MO	20	3	480	3600	
INSUL_AL_MM2_NEC		Q001	6	DS	20	3	480	3600	
INSUL_CU_MM2_NEC		Q001	6	FU	20	3	480	3600	
MOTOR_I_CALC_NEC		XL001	2	OL	20	3	480	3600	-
	14	< <u> </u> 1	of 33 🗆 🕨						Þ
						Sav	/e C	lose He	elp

Pinlist

The pinlist database is used typically for coil and contact placement. Users can configure new relays with the normally open and closed contact numbers.

				Sort Find Replace Filter
MANUFACTURER	CATALOG	ASSEMBLYCODE	COILPINS	PINLIST
AB	1492-HJ86			4,1;4,2;4,3;4,4;4,5;4,6
AB	1492-HJ812			4,1;4,2;4,3;4,4;4,5;4,6;4,7;4,8;4,9;4,10;4,11;4,
AB	100-B*		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,13,14,*NO AUX
AB	100-C09×01		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,21,22,*NC AUX
AB	100-009*10		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,13,14,*N0 AUX
AB	100-09*200		A1,A2	1,L1,T1;1,L2,T2;2,L3,T3;2,L4,T4
AB	100-C09*300		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,L4,T4
AB	100-009*400		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,L4,T4
AB	100-C12×01		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,21,22,*NC AUX
AB	100-C12*10		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,13,14,*NO AUX
AB	100-012*200		A1,A2	1,L1,T1;1,L2,T2;2,L3,T3;2,L4,T4
AB	100-012*300		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,L4,T4
AB	100-C12×400		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,L4,T4
AB	100-016+01		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,21,22,*NC AUX
AB	100-016*10		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,13,14,*N0 AUX
AB	100-C16*200		A1,A2	1,L1,T1;1,L2,T2;2,L3,T3;2,L4,T4
AB	100-C16*300		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,L4,T4
AB	100-C16×400		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,L4,T4
AB	100-C23×01		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,21,22,*NC AUX
AB	100-C23*10		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,13,14,*N0 AUX
AB	100-C23*200		A1,A2	1,L1,T1;1,L2,T2;2,L3,T3;2,L4,T4
AB	100-C23*300		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,L4,T4
AB	100-C23×400		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;1,L4,T4
AB	100-C30*00		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3
AB	100-C30×01		A1,A2	1,L1,T1;1,L2,T2;1,L3,T3;2,21,22,*NC AUX *
•				•
Record 1 of 1298				
		Edit	Add New	Add Copy Delete
		Sa	/e/Exit	Quit Help

Terminal Properties Database

The terminal properties database is used to configure terminal properties. Users will configure new terminals with such things as levels and wires per connection.

MANUFACTURER CATALOG ASSEMBLYCODE LEVELS LEVELDESCRIPTION TPINL TPINL	Ec	dit c:\catalogs\defa	ult_cat.mdb (Table: _TEF	(MPROPS_AB)					×
AB 1492-H2RA688 2 UPPER, LOWER 2,2 AB 1492-H2RA688 2 UPPER, LOWER 2,2 AB 1492-H2RA688 2 UPPER, LOWER 2,2 AB 1492-H2RA758 2 UPPER, LOWER 2,2 AB 1492-H2RA912 2 UPPER, LOWER 2,2 AB 1492-H2RA133 2 UPPER, LOWER 2,2 AB 1492-H2RA163 2 UPPER, LOWER 2,2 AB 1492-H2RA163 2 UPPER, LOWER 2,2 AB 1492-H2RA233 2 UPPER, LOWER 2,2 AB 1492-H2RA333 2 UPPER, L		MANUFACTURER	CATALOG	ASSEMBLYCODE	LEVELS		Sort TPINL TPINR	Find Replace	Filter
AB 1492-H2RA688 2 UPPER,LDWER 2,2 AB 1492-H2RA756 2 UPPER,LDWER 2,2 AB 1492-H2RA975 2 UPPER,LDWER 2,2 AB 1492-H2RA912 2 UPPER,LDWER 2,2 AB 1492-H2RA1913 2 UPPER,LDWER 2,2 AB 1492-H2RA113 2 UPPER,LDWER 2,2 AB 1492-H2RA113 2 UPPER,LDWER 2,2 AB 1492-H2RA113 2 UPPER,LDWER 2,2 AB 1492-H2RA133 2 UPPER,LDWER 2,2 AB 1492-H2RA233 2 UPPER,LDWER 2,2 AB 1492-H2RA233 2 UPPER,LDWER 2,2 AB 1492-H2RA33 2 UPPER,LDWER 2,2 AB 1492-H2RA33 2 UPPER,LDWER 2,2 <th>Ы</th> <th>0R</th> <th>1/02-0280620</th> <th></th> <th>2</th> <th>HPPER LOWER</th> <th></th> <th>2.2</th> <th></th>	Ы	0R	1/02-0280620		2	HPPER LOWER		2.2	
AB 1492-H2RA758 2 UPPER,LOWER 2,2 AB 1492-H2RA828 2 UPPER,LOWER 2,2 AB 1492-H2RA193 2 UPPER,LOWER 2,2 AB 1492-H2RA113 2 UPPER,LOWER 2,2 AB 1492-H2RA113 2 UPPER,LOWER 2,2 AB 1492-H2RA113 2 UPPER,LOWER 2,2 AB 1492-H2RA133 2 UPPER,LOWER 2,2 AB 1492-H2RA133 2 UPPER,LOWER 2,2 AB 1492-H2RA153 2 UPPER,LOWER 2,2 AB 1492-H2RA153 2 UPPER,LOWER 2,2 AB 1492-H2RA133 2 UPPER,LOWER 2,2 </th <th>Ľ</th> <th>AB</th> <th>1492-H2RA688</th> <th></th> <th>2</th> <th>UPPER -LOWER</th> <th></th> <th>2.2</th> <th></th>	Ľ	AB	1492-H2RA688		2	UPPER -LOWER		2.2	
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AB 1492-H2RA1912 2 UPPER,LOWER 2,2 AB 1492-H2RA113 2 UPPER,LOWER 2,2 AB 1492-H2RA113 2 UPPER,LOWER 2,2 AB 1492-H2RA123 2 UPPER,LOWER 2,2 AB 1492-H2RA133 2 UPPER,LOWER 2,2 AB 1492-H2RA233 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 <th></th> <th>AB</th> <th>1492-H2BA820</th> <th></th> <th>2</th> <th>UPPER LOWER</th> <th></th> <th>2.2</th> <th></th>		AB	1492-H2BA820		2	UPPER LOWER		2.2	
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AB 1492-H2RA123 2 UPPER_LOWER 2.2 AB 1492-H2RA133 2 UPPER_LOWER 2.2 AB 1492-H2RA133 2 UPPER_LOWER 2.2 AB 1492-H2RA153 2 UPPER_LOWER 2.2 AB 1492-H2RA153 2 UPPER_LOWER 2.2 AB 1492-H2RA163 2 UPPER_LOWER 2.2 AB 1492-H2RA183 2 UPPER_LOWER 2.2 AB 1492-H2RA23 2 UPPER_LOWER 2.2 AB 1492-H2RA23 2 UPPER_LOWER 2.2 AB 1492-H2RA33 2 UPPER_LOWER 2.2 <		AB	1492-H2RA113		2	UPPER LOWER		2,2	
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AB 1492-H2RA153 2 UPPER_LOWER 2,2 AB 1492-H2RA163 2 UPPER_LOWER 2,2 AB 1492-H2RA183 2 UPPER_LOWER 2,2 AB 1492-H2RA183 2 UPPER_LOWER 2,2 AB 1492-H2RA283 2 UPPER_LOWER 2,2 AB 1492-H2RA233 2 UPPER_LOWER 2,2 AB 1492-H2RA233 2 UPPER_LOWER 2,2 AB 1492-H2RA33 2 UPPER_LOWER 2,2 AB 1492-H2RA333 2 UPPER_LOWER 2,2 AB 1492-H2RA333 2 UPPER_LOWER 2,2 AB 1492-H2RA33 2 UPPER_LOWER 2,2 AB 1492-H2RA33 2 UPPER_LOWER 2,2 AB 1492-H2RA433 2 UPPER_LOWER 2,2 AB 1492-H2RA433 2 UPPER_LOWER 2,2 AB 1492-H2RA433 2 UPPER_LOWER 2,2 AB 1492-H2RA633 2 UPPER_LOWER 2,2		AB	1492-H2RA133		2	UPPER,LOWER		2,2	
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AB 1492-H2RA283 2 UPPER,LOWER 2,2 AB 1492-H2RA223 2 UPPER,LOWER 2,2 AB 1492-H2RA243 2 UPPER,LOWER 2,2 AB 1492-H2RA233 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA553 2 UPPER,LOWER 2,2 AB 1492-H2RA553 2 UPPER,LOWER 2,2 AB 1492-H2RA653 2 UPPER,LOWER 2,2 </th <th></th> <th>AB</th> <th>1492-H2RA183</th> <th></th> <th>2</th> <th>UPPER,LOWER</th> <th></th> <th>2,2</th> <th></th>		AB	1492-H2RA183		2	UPPER,LOWER		2,2	
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AB 1492-H2RA243 2 UPPER,LOWER 2,2 AB 1492-H2RA273 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 <th></th> <th>AB</th> <th>1492-H2RA223</th> <th></th> <th>2</th> <th>UPPER,LOWER</th> <th></th> <th>2,2</th> <th></th>		AB	1492-H2RA223		2	UPPER,LOWER		2,2	
AB 1492-H2RA9273 2 UPPER,LOWER 2,2 AB 1492-H2RA933 2 UPPER,LOWER 2,2 AB 1492-H2RA9513 2 UPPER,LOWER 2,2 AB 1492-H2RA9563 2 UPPER,LOWER <t< th=""><th></th><th>AB</th><th>1492-H2RA243</th><th></th><th>2</th><th>UPPER,LOWER</th><th></th><th>2,2</th><th></th></t<>		AB	1492-H2RA243		2	UPPER,LOWER		2,2	
AB 1492-H2RA383 2 UPPER,LOWER 2,2 AB 1492-H2RA383 2 UPPER,LOWER 2,2 AB 1492-H2RA363 2 UPPER,LOWER 2,2 AB 1492-H2RA393 2 UPPER,LOWER 2,2 AB 1492-H2RA393 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA473 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA53 2 UPPER,LOWER 2,2 AB 1492-H2RA53 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 Record 1 of 1771 Edit Add New Add Copy Delete		AB	1492-H2RA273		2	UPPER,LOWER		2,2	
AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA33 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 Record 1 of 1771 Edit Add New Add Copy Delete		AB	1492-H2RA303		2	UPPER,LOWER		2,2	
AB 1492-H2RA363 2 UPPER,LOWER 2,2 AB 1492-H2RA393 2 UPPER,LOWER 2,2 AB 1492-H2RA433 2 UPPER,LOWER 2,2 AB 1492-H2RA473 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA53 2 UPPER,LOWER 2,2 AB 1492-H2RA563 2 UPPER,LOWER 2,2		AB	1492-H2RA333		2	UPPER,LOWER		2,2	
AB 1492-H2RA393 2 UPPER,LOWER 2,2 AB 1492-H2RA333 2 UPPER,LOWER 2,2 AB 1492-H2RA473 2 UPPER,LOWER 2,2 AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA533 2 UPPER,LOWER 2,2 AB 1492-H2RA533 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 Record 1 of 1771 Edit Add New Add Copy Delete		AB	1492-H2RA363		2	UPPER,LOWER		2,2	
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AB 1492-H2RA513 2 UPPER,LOWER 2,2 AB 1492-H2RA533 2 UPPER,LOWER 2,2 AB 1492-H2RA623 2 UPPER,LOWER 2,2 Record 1 of 1771 Edit Add New Add Copy Delete Save/Exit		AB	1492-H2RA473		2	UPPER,LOWER		2,2	
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Schematic Database (Schematic Lookup)

The schematic lookup database is used to determine what schematic symbol to use with manufacture part number. Users typically use this if inserting symbols from a layout that already exist.

1	dit c:\catalogs\schematic_lookup.mdb (Table: T	ABLE1)		- 23
	MANUFACTURER	CATALOG	Find Replace	Filter
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	AB,ALLEN-BRADLEY,ALLEN BRADLEY AB,ALLEN-BRADLEY,ALLEN BRADLEY SQD,SQUARE-D SQD,SQUARE-D AB,ALLEN-BRADLEY,ALLEN BRADLEY AB,ALLEN-BRADLEY,ALLEN BRADLEY SQD,SQUARE-D SQD,SQUARE-D AB,ALLEN-BRADLEY,ALLEN BRADLEY AB,ALLEN-BRADLEY,ALLEN BRADLEY	800EH-E*,800EP-E*,800EH-G*,800EH-F*,800HR-A*,800HR-B* 800EH-E*,800EP-E*,800EH-G*,800EH-F*,800HR-A*,800HR-B* KR*,*KR* 800T-D*,800H-D*,800EH-H*,800EP-H*,800ES-H* 800T-D*,800H-D*,800EH-H*,800EP-H*,800ES-H* KR*,*KR* KR*,*KR* 1771-IAD 1771-IAD		*PB*,*I *PB*,*I ≣
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Footprint Lookup

The footprint lookup database is used to determine what block is inserted into a layout drawing from a part number.

Footprint lookup C:\catalogs\footprint_lookup.mdb (table ABB)									
Manufacturer: ABB									
Catalog	Block name, geometry command, or icon menu call	Comment	-						
11N1-1A	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1A1	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1B	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1B1	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1C	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1C1	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1D	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1D1	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1E	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1E1	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1F	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1G	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1H	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1J	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1K	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS							
11N1-1L	ABB/MS-MOTOR STARTERS/ABBMS_254_457	COMBINATION STARTERS	-						
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Delete	Assembly:								
	Block/Geometry:								
Add New	Comment:								
	OK / Save / Exit Cancel	Save Help							

LISTBOX_DEF Database

The listbox_def Database is used for the filtering of the schematic lookup components. Users can change the filtering to fit their company needs.

	_FAMILY_DESCRI	IPTION													
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	_PINLIST_EINTRE	MO				AC MOTOR									-
	_PINLIST_HARTI	LT1RM				30.5mm									
	PINLIST HOFFN	LIIRP				30.5mm	120VAC XEMR								
	DINUIST LITTLE	LTIWM				30.5mm	120VAC APMIN								
	_PINLIST_LITTLE	LTIWP				30.5mm	120VAC XEMR								
	_PINLIST_MERLI	LT1Y				30.5mm	120VAC XFMR								
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	_FINCIST_MODIX	LT1YP				30.5mm	120VAC XFMR								
	_PINLIST_MOELI	LT1GM				30.5mm									
	PINI IST MURR	NP				800H AUTOMOTIVE									
		PBIZM				30.5mm	RED								
	_PINLIST_PHOE	PB11M				su.omm	KED						STANDARD		
	_PINLIST_PILZ	PB12				30.5mm EXTENDED	RED						JIANDARD		
	DINI IST RITTAI	PB11L				30.5mm EXTENDED	RED								
	_rives1_kiriAi	PB12L				30.5mm EXTENDED	RED								
111	_PINLIST_SQD	LT1YM				30.5mm									
	PINLIST TELEM	LT1BM				30.5mm									
		DN				CABLE	CONNECTOR								
	_PINLIST_TORCK	DK				13305 AC DRIVE									
	_PINLIST_WEIDN	LR IR				TYDE R	1201/4/								
	TERMORODS A	LTIA				30.5mm	120VAC XEMR								
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111	_TERMPROPS_A	LT1AN				30.5mm									
	TERMPROPS EI	LT1R				30.5mm	120VAC XFMR								
		LT1B				30.5mm	120VAC XFMR								
		LT1GP				30.5mm	120VAC XFMR								
		LIIBP				30.5mm	120VAC XEMR								+
		LIIC				30.5mm	120VAC XFMR								
		LTICN				30.5mm									
		LT1CP				30.5mm	120VAC XEMR								
		LT1G				30.5mm	120VAC XFMR								
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Network AutoCAD Electrical

If ACADE is being used in a department environment it, is most effective when it is networked. Networking ACADE helps departments to standardize such things as manufacturer descriptions, symbols, and reports. Networking ACADE allows users to share libraries, databases, and support folders. The areas of focus are:

- Structuring the shared libraries
- Sharing Icon menus
- Mapping to central databases
- Mapping support folders

Shared Libraries

Our approach to the network libraries are as follows

- Keep ACADE standard library content local to each machine
- Keep custom created content in a network location. Folders should be separated for schematic and footprint blocks
- Use offline folders for the networked libraries

All libraries are mapped under the project properties.

Icon Menu

All Icon Menus are mapped under the project properties.



Mapping Databases

The Default_Cat database is mapped in the environment file.

🔲 wd.env - Notepad
File Edit Format View Help
<pre>*WD_WBLOCKDLG,x:/some path/,to override starting subdir for Black *WD_PICKLIST,%WD_DIR%/%WD_LANG%/catalogs/wd_picklist.mdb,ins comp(*WD_USERCKTDIR,x:/some path/,default folder for "USER CKTS" *PLC_ADDRESS_FORMAT,I:00%10%2;I:%1%2/00;;0:00%10%2;0:%1%2/00;; * Catalog Parts Database Path ************************************</pre>
WD_CAT,G:/ACADE CATALOGS/,AE catalog file path *WD_CA1,%WD_DIR%/%WD_LANG%/catalogs/,AE default katalog file path *WD_XCAT,x:/some path/wd_xcat.lsp,to override catalog look-up and

The PLC database is mapped under the AutoCAD support path



Map Additional Support Folders

Map any additional support folders for any custom ASCII text files.

