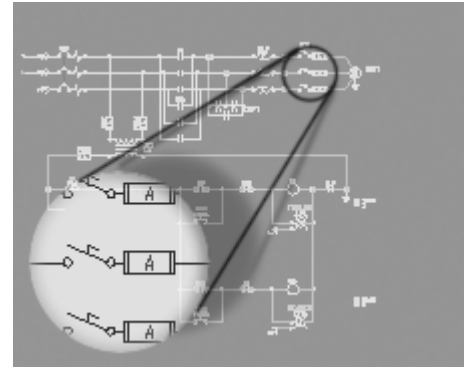


AutoCAD Electrical Symbol Libraries



AutoCAD Electrical 2005

Symbol file names should conform to the AutoCAD Electrical naming convention. Though not mandatory, you are encouraged to follow the convention in order to take full advantage of the AutoCAD Electrical features.

The following pages describe the naming conventions that should be followed when you create or modify library symbols.

- Library Symbol Naming Conventions
- Using Multiple Symbol Libraries
- Substituting Symbols in the Library
- Schematic Library Symbols

Library Symbol Naming Conventions

The default symbol subdirectory, jic1, and a companion 0.125 uniform text height library, jic125, each contain many hundreds of component symbols in standard AutoCAD ".dwg" file format. These are referenced by AutoCAD Electrical and its icon menuing system and are inserted as standard AutoCAD blocks with attributes.

Cable Marker Symbols

AutoCAD Electrical cable conductor marker symbols follow this convention:

- The first character is "H" or "V" for horizontal or vertical wire insertion.
- The next two characters are "W0."
A zero (0) means that the symbol does not trigger a wire number change through it.
- The fourth character is 1 or 2.
1 = parent marker; 2 = child marker
- The remaining characters are not specified.

Examples

HW01.dwg	parent cable conductor marker, horizontal wire insertion
HW02.dwg	child cable marker, horizontal wire insertion
VW01.dwg	parent cable conductor marker, vertical wire insertion
VW02.dwg	child cable marker, vertical wire insertion

Component Location Mark Symbols

AutoCAD Electrical expects the location symbol names to begin with the characters "WDXX."

Configuration and Ladder Master Line Reference Symbols

AutoCAD Electrical expects to find these block inserts:

WD_M.dwg	block insert consisting of about 50 invisible attributes. These carry the drawing's settings.
WD_PNLM.dwg	optional block insert consisting of several invisible attributes. These carry the drawing's settings for panel layout functions.
WD_MLRH.dwg	block insert that carries a ladder's first line reference number and additional information such as rung spacing and ladder length.
WD_MLRV.dwg	same as above but for a ladder that lies on its side.
WD_MLRHX.dwg	optional, user-defined alternative to WD_MLRH.dwg. This symbol name is used by AutoCAD Electrical when you select 'User Block' from the Referencing tab on the Drawing Configuration dialog box.
WD_MLRVX.dwg	same as above but for a ladder that lies on its side.

NOTE The ladder line reference block used by AutoCAD Electrical is determined by the ladder reference configuration selected in the Referencing tab on the Drawing Configuration dialog box.

Dumb In-Line Wire Marker Symbols

Dumb in-line wire marker symbols must be constructed with a tiny piece of "pigtail" line entity at each connection point. This can be very small but it needs to be present for AutoCAD Electrical to correctly see the in-line inserted block as it traces the wire network. In-line wire marker symbols follow this naming convention:

- The first character is "H" or "V" for horizontal wire or vertical wire insertion.
- The next three characters are "T0_".
- The remaining characters are undefined.

Example

HT0_RED.dwg red in-line marker, horizontal wire insert

General Components

Schematic components such as relays, switches, pilot lights, and discrete motor control devices (but not PLC I/O symbols) follow this naming convention:

- 32 character block name maximum; the first character is either “H” or “V” for horizontal or vertical wire insertion.
- The next two characters are reserved for family type (such as PB for push buttons, CR for control relays, or LS for limit switches).
A zero (0) as the second character of the family type means that the symbol does not trigger a wire number change through it (for example, T0 for terminals, W0 for cable markers, and so on).
- The fourth character is generally a 1 or 2.
1 = parent or stand-alone components; 2 = child contacts
- If the symbol is a contact, the fifth character is a 1 or 2.
1 = normally open; 2 = normally closed.
- The remaining characters are not specified. They are used to keep names unique.

Examples

HCR1.dwg	control relay coil, horizontal rung insertion
VCR1.dwg	control relay coil, vertical rung insertion
HCR21.dwg	horizontal relay contact, N.O.
HCR22.dwg	horizontal relay contact, N.C.
HCR22T.dwg	horizontal relay contact, N.C. with in-line terminal numbers
VPB11.dwg	vertical push button, parent contact, N.O.
VPB21.dwg	vertical push button, child contact, N.O.
HLS11.dwg	horizontal limit switch, parent, N.O.
HLS11H.dwg	horizontal limit switch, parent, N.O. Held closed
VLT1RP.dwg	vertical pilot light, red, press-to-test
HW01.dwg	horizontal cable marker, no wire number change through it

Panel Layout Footprint Symbols

There isn't a required naming convention to follow, but the name must adhere to the AutoCAD 32-character block name limit.

PLC I/O Parametric Build Symbols

These symbols begin with "HP" or "VP" (horizontal rung versus vertical) followed by a digit 1 through 9. The digit corresponds to the selected PLC module style or "look" (1 through 5 are provided in the AutoCAD Electrical library, 6 through 9 can be user-defined).

Plug/Jack Connector Pin Symbols

AutoCAD Electrical connector symbols follow this convention:

- The first character is "H" or "V" for horizontal or vertical wire insertion.
- The next two characters are "C0" if the connector doesn't trigger a wire number change through it, or "CN" if the connector triggers a wire number change.
- The fourth character is 1 or 2.
 - 1 = parent marker; 2 = child marker
- The remaining characters are not specified.

Source/Destination Wire Signal Arrow Symbols

AutoCAD Electrical wire signal arrow symbols follow this convention:

- The first four characters of these symbol names are either "HA?S" for source signal arrows or "HA?D" for destination symbol arrows. The "?" character is the arrow style digit (1 through 4 are provided in the AutoCAD Electrical library; 5 through 9 can be user-defined).
- Characters 5 through 11 can be user defined.

You can create your own arrow styles using these unused digits (ex: HA5S... and HA5D...). For example, copy **Autodesk\Acade {version number}\Libs\jic1\ha1s*.dwg to ha5s*.dwg** and **Autodesk\Acade {version number}\Libs\jic1\ha1d*.dwg to ha1d*.dwg**. Call up each of the copied arrow symbols in AutoCAD and edit to suit. Then, to access your new arrow style, set the default arrow style to "5" in the Drawing Configuration dialog box.

Stand-Alone Cross-Reference Symbols

Same naming convention as the Source/Destination Signal symbols (i.e. HA?S* and HA?D*) but without a WIRENO attribute present on the symbol.

Stand-Alone PLC I/O Point Symbols

These symbols begin with "PLCIO" and can be up to 32 characters long. There is no naming convention referenced by AutoCAD Electrical other than the "PLCIO" prefix.

Examples

PLC1050E1761 AB 1761 model L16-AWA with 0.5 unit rung spacing
-L16AWA.dwg

PLCIO1T.dwg Stand-alone input point, single wire connection

Stand-Alone Terminal Symbols

Stand-alone terminals follow this naming convention:

- The first two characters are "HT."
- The third character is a "0" if the wire number does not change through the terminal or "1" if the terminal symbol should trigger a wire number change.
- The fourth character is an underscore (_) if the terminal carries no attributes for AutoCAD Electrical to process (such as a dumb, unannotated terminal symbol).

Otherwise the 4th-8th character positions of the symbol file name are user-defined.

Examples

HT0001.dwg square terminal with annotation, wire number does not change

HT1001.dwg square terminal with annotation, wire number changes through the terminal

HT0_01.dwg dumb, square terminal with no annotation, no wire number change

Wire Dot Symbols

AutoCAD Electrical expects this symbol name to be “WDDOT.dwg.”

Wire Number Symbols

An AutoCAD Electrical wire number is a block insert consisting of a single wire number attribute. The origin of the block insert lies on its wire with the wire number attribute floating above, below, or off to the side of the block's insertion point.

Examples

WD_WNH.dwg	wire number for horizontal wire insertion
WD_WNV.dwg	wire number for vertical wire insertion
WD_WCH.dwg	extra wire number copy for horizontal wire
WD_WCV.dwg	extra wire number copy for vertical wire

AutoCAD Electrical also supports in-line wire numbers that follow the value of the main wire number. An in-line wire marker has a block name that follows that of a terminal symbol that does not trigger a wire number change.

Examples

HT0_W1.dwg	in-line wire number marker, horizontal wire insertion, short wire number length
HT0_W3.dwg	in-line wire number marker, horizontal wire insertion, longer wire number length
VT0_W1.dwg	in-line wire number marker, vertical wire insertion, short wire number length
VT0_W2.dwg	in-line wire number, vertical wire insertion, medium wire number length

Using Multiple Symbol Libraries

You can select the library you want to use for each project. One project might require a JIC-style library and another an IEC-style library. Each symbol library set must be in its own subdirectory but adhere to the AutoCAD Electrical file naming convention.

To set a symbol library to use for a particular project, enter the library's path into the **Projects > Projects > Project New/Existing > Symbol Library** subdialog box. Enter the library's path into the upper input box.

NOTE You can include electrical, pneumatic, or other schematic libraries in the path.

You can also include a series of library paths for AutoCAD Electrical to use. To do this, enter the names of the libraries (in order) with a semicolon between them. For example, **C:/Program Files/Autodesk/Acade {version number}/Libs/;C:/user path/userlibrary**.

NOTE You cannot have duplicate symbols in the various symbol libraries.

Substituting Symbols in the Library

You can temporarily substitute an altered symbol for a symbol that is found in the standard library. Put the altered symbol's ".dwg" file in your USER subdirectory (select the **Projects > Project > Project New/Existing > Settings** button to find the full path). The AutoCAD Electrical component insertion command always looks at this directory for the requested symbol prior to going to the selected symbol library.

NOTE AutoCAD Electrical deals with regular AutoCAD blocks. If you insert a block from one library and then try to insert the same block name, but from a different library, you'll just get a copy of the original version of the block. Use the AutoCAD Electrical SWAP BLOCK command to make the change.

Schematic Library Symbols

Below is an illustrated listing of the schematic symbols (along with the appropriate block name) supplied with AutoCAD Electrical. The schematic symbols are illustrated here along with the appropriate block name.

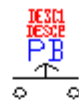
Push Buttons



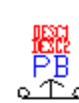
HPB11.DWG
Push button, N.O.



HPB12.DWG
Push button, N.C.



HPB11M.DWG
Mushroom PB,
N.O.



HPB12M.DWG
Mushroom PB,
N.C.














HPB21.DWG
Contact, N.O.
2nd+



HPB22.DWG
Contact, N.C.
2nd+

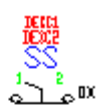
Illuminated Push Buttons

			
HPB11L.DWG Illum PB, N.O.	HPB12L.DWG Illum PB, N.C.	HPB11ML.DWG Illum PB, N.O. Mushroom Head	HPB12ML.DWG Illum PB, N.C. Mushroom Head
			
HPB2R.DWG Illum PB, Red Light	HPB2G.DWG Illum PB, Green Light	HPB2A.DWG Illum PB, Amber Light	HPB2Y.DWG Illum PB, Yellow Light
			
HPB2B.DWG Illum PB, Blue Light	HPB2W.DWG Illum PB, White Light	HPB2C.DWG Illum PB, Clear Light	

Selector Switches



HSS112.DWG
Selector Switch,
2 pos Maintained
Shown N.O.



HSS122.DWG
Selector Switch,
2 pos Maintained
Shown N.C.



HSS112L.DWG
Selector Switch,
2 pos Spr Rtn from
Left, Shown N.O.



HSS122L.DWG
Selector Switch,
2 pos Spr Rtn from
Left, Shown N.C.



HSS112R.DWG
Selector Switch,
2 pos Spr Rtn from
Right, Shown N.O.



HSS122R.DWG
Selector Switch,
2 pos Spr Rtn from
Right, Shown N.C.



HSS21.DWG
Selector Switch,
2nd + N.O.



HSS22.DWG
Selector Switch,
2nd + N.C.



HSS113.DWG
Selector Switch,
3 pos Maintained
Shown N.O.



HSS123.DWG
Selector Switch,
3 pos Maintained
Shown N.C.



HSS113L.DWG
Selector Switch,
3 pos Spr Rtn from
Left, Shown N.O.



HSS123L.DWG
Selector Switch,
3 pos Spr Rtn from
Left, Shown N.C.



HSS113R.DWG
Selector Switch,
3 pos Spr Rtn from
Right, Shown N.O.



HSS123R.DWG
Selector Switch,
3 pos Spr Rtn from
Right, Shown N.C.



HSS113B.DWG
Selector Switch,
3 pos Spr Rtn to
Center, Shown N.O.

Selector Switches (continued)



HSS123B, DWG
Selector Switch,
3 pos Spr Rtn to
Center, Shown N.C.



HSS114, DWG
Selector Switch,
4 pos Maintained,
Shown N.C.



HSS124, DWG
Selector Switch,
4 pos Maintained,
Shown N.C.



HSS116, DWG
Selector Switch,
6 pos Maintained,
Shown N.C.



HSS126, DWG
Selector Switch,
6 pos Maintained,
Shown N.C.



HSS118, DWG
Selector Switch,
8 pos Maintained,
Shown N.C.



HSS128, DWG
Selector Switch,
8 pos Maintained,
Shown N.C.

Illuminated Selector Switches



HSS112I.DWG
Illum Sel Switch,
2 pos Maintained
Shown N.O.



HSS122I.DWG
Illum Sel Switch,
2 pos Maintained
Shown N.C.



HSS112LI.DWG
Illum Sel Switch,
2 pos Spr Rtn from
Left, Shown N.O.



HSS122LI.DWG
Illum Sel Switch,
2 pos Spr Rtn from
Left, Shown N.C.



HSS112RI.DWG
Illum Sel Switch,
2 pos Spr Rtn from
Right, Shown N.O.



HSS122RI.DWG
Illum Sel Switch,
2 pos Spr Rtn from
Right, Shown N.C.



HSS113I.DWG
Illum Sel Switch,
3 pos Maintained
Shown N.O.



HSS123I.DWG
Illum Sel Switch,
3 pos Maintained
Shown N.C.



HSS113LI.DWG
Illum Sel Switch,
3 pos Spr Rtn from
Left, Shown N.O.



HSS123LI.DWG
Illum Sel Switch,
3 pos Spr Rtn from
Left, Shown N.C.



HSS113RI.DWG
Illum Sel Switch,
3 pos Spr Rtn from
Right, Shown N.O.



HSS123RI.DWG
Illum Sel Switch,
3 pos Spr Rtn from
Right, Shown N.C.



HSS113BI.DWG
Illum Sel Switch,
3 pos Spr Rtn to
Center, Shown N.O.



HSS123BI.DWG
Illum Sel Switch,
3 pos Spr Rtn to
Center, Shown N.C.



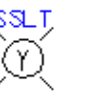
HSS2R.DWG
Red Light for
Illum Sel Switch



HSS2G.DWG
Green Light for
Illum Sel Switch



HSS2A.DWG
Amber Light for
Illum Sel Switch



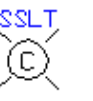
HSS2Y.DWG
Yellow Light for
Illum Sel Switch



HSS2B.DWG
Blue Light for
Illum Sel Switch











HSS2W.DWG
White Light for
Illum Sel Switch







HSS2C.DWG
Clear Light for
Illum Sel Switch





Limit Switches

			
HLS11.DWG Limit Switch, N.O.	HLS12.DWG Limit Switch, N.C.	HLS21.DWG Limit Switch, 2nd+ N.O.	HLS22.DWG Limit Switch, 2nd+ N.C.
			
HLS11H.DWG Limit Switch, N.O.-Held closed	HLS12H.DWG Limit Switch, N.C.-Held open	HLS21H.DWG Limit Switch, 2nd+ N.O.- Held closed	HLS22H.DWG Limit Switch, 2nd+ N.C.- Held Open

Pressure Switches

			
HPS11.DWG Pressure Switch, N.O.	HPS12.DWG Pressure Switch, N.C.	HPS21.DWG Pressure Switch, 2nd+ N.O.	HPS22.DWG Pressure Switch, 2nd+ N.C.

Temperature Switches

			
HTS11.DWG Temp Switch, N.O.	HTS12.DWG Temp Switch, N.C.	HTS21.DWG Temp Switch, 2nd+ N.O.	HTS22.DWG Temp Switch, 2nd+ N.C.

Flow Switches



HFS11.DWG
Flow Switch,
N.O.



HFS12.DWG
Flow Switch,
N.C.



HFS21.DWG
Flow Switch,
2nd+ N.O.



HFS22.DWG
Flow Switch,
2nd+ N.C.

Level Switches



HFL11.DWG
Level Switch,
N.O.



HFL12.DWG
Level Switch,
N.C.



HFL21.DWG
Level Switch,
2nd+ N.O.



HFL22.DWG
Level Switch,
2nd+ N.C.

Proximity Switches



HPX11.DWG
Prox Switch,
N.O.



HPX12.DWG
Prox Switch,
N.C.



HPX21.DWG
Prox Switch,
2nd+ N.O.



HPX22.DWG
Prox Switch,
2nd+ N.C.

Foot Switches



HFT11.DWG
Foot Sw itch,
N.O.



HFT12.DWG
Foot Sw itch,
N.C.



HFT21.DWG
Foot Sw itch,
2nd+ N.O.



HFT22.DWG
Foot Sw itch,
2nd+ N.C.

Pull Cord Switches



HPC11.DWG
Pull Cord Switch,
N.O.



HPC12.DWG
Pull Cord Switch,
N.C.



HPC21.DWG
Pull Cord Switch,
2nd+ N.O.



HPC22.DWG
Pull Cord Switch,
2nd+ N.C.

Anti-Plugging Switches



HPG11.DWG
Anti-Plugging
Switch, N.O.



HPG12.DWG
Anti-Plugging
Switch, N.C.



HPG21.DWG
Anti-Plugging
Switch, 2nd+ N.O.



HPG22.DWG
Anti-Plugging
Switch, 2nd+ N.C.

Toggle Switches



HTG11.DWG
Toggle Switch,
N.O.



HTG12.DWG
Toggle Switch,
N.C.



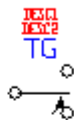
HTG21.DWG
Toggle Switch,
2nd+ N.O.



HTG22.DWG
Toggle Switch,
2nd+ N.C.



HTG112.DWG
Toggle Switch,
SPDT Maintained



HTG112D.DWG
Toggle Switch,
SPDT Rtn from
Down



HTG112U.DWG
Toggle Switch,
SPDT Rtn from
Up



HTG112B.DWG
Toggle Switch,
SPDT Rtn from
Both



HTG212.DWG
Toggle Switch,
2nd+ Maint



HTG212D.DWG
Toggle Switch,
2nd+ Rtn from
Down



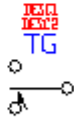
HTG212U.DWG
Toggle Switch,
2nd+ Rtn from
Up



HTG212B.DWG
Toggle Switch,
2nd+ Rtn from
Both



HTG112R.DWG
Toggle Switch,
SPDT Maintained



HTG112DR.DWG
Toggle Switch,
SPDT Rtn from
Down



HTG112UR.DWG
Toggle Switch,
SPDT Rtn from
Up



HTG112BR.DWG
Toggle Switch,
SPDT Rtn from
Both



HTG212R.DWG
Toggle Switch,
2nd+ Maint



HTG212DR.DWG
Toggle Switch,
2nd+ Rtn from
Down

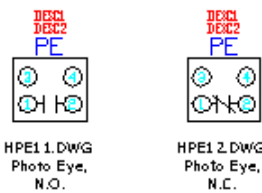


HTG212UR.DWG
Toggle Switch,
2nd+ Rtn from
Up

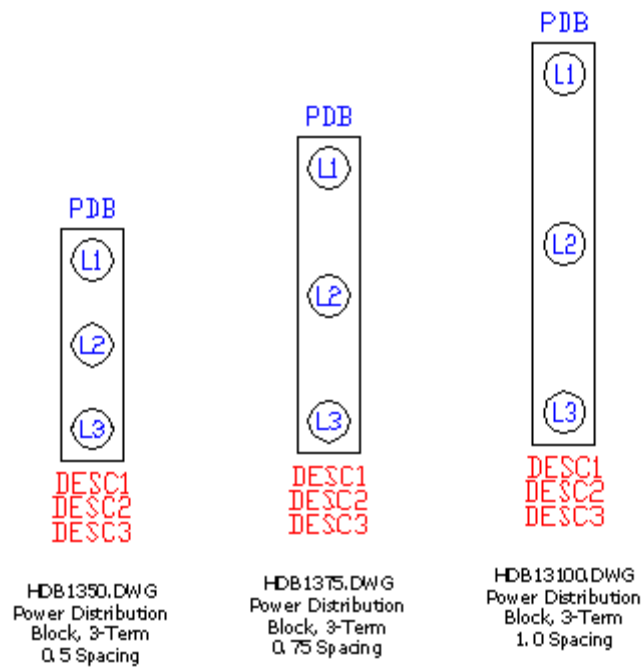


HTG212BR.DWG
Toggle Switch,
2nd+ Rtn from
Both

Photo Eyes



Power Distribution Blocks



Timers



HTD1N.DWG
Time Delay Relay, On Delay Coil



HTD1NT.DWG
Time Delay Relay, On Delay Coil
with Terminals



HTD21N.DWG
Time Delay Contact,
On Delay N.O.-T.C.



HTD22N.DWG
Time Delay Contact,
On Delay N.C.-T.O.



HTD21NT.DWG
Time Delay Contact,
On Delay N.O.-T.C.
w Term



HTD22NT.DWG
Time Delay Contact,
On Delay N.C.-T.O.
w Term



HTD21I.DWG
Time Delay Contact,
Inst N.O.



HTD22I.DWG
Time Delay Contact,
Inst N.C.



HTD21IT.DWG
Time Delay Contact,
Inst N.O.
w Term



HTD22IT.DWG
Time Delay Contact,
Inst N.C.
w Term



HTD1F.DWG
Time Delay Relay, Off Delay Coil



HTD1FT.DWG
Time Delay Relay, Off Delay Coil
with Terminals



HTD21F.DWG
Time Delay Contact,
Off Delay N.O.-T.O.



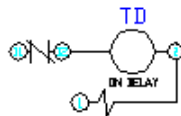
HTD22F.DWG
Time Delay Contact,
Off Delay N.C.-T.C.



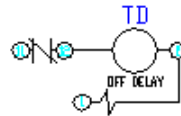
HTD21FT.DWG
Time Delay Contact,
Off Delay N.O.-T.O.
w Term



HTD22FT.DWG
Time Delay Contact,
Off Delay N.C.-T.C.
w Term

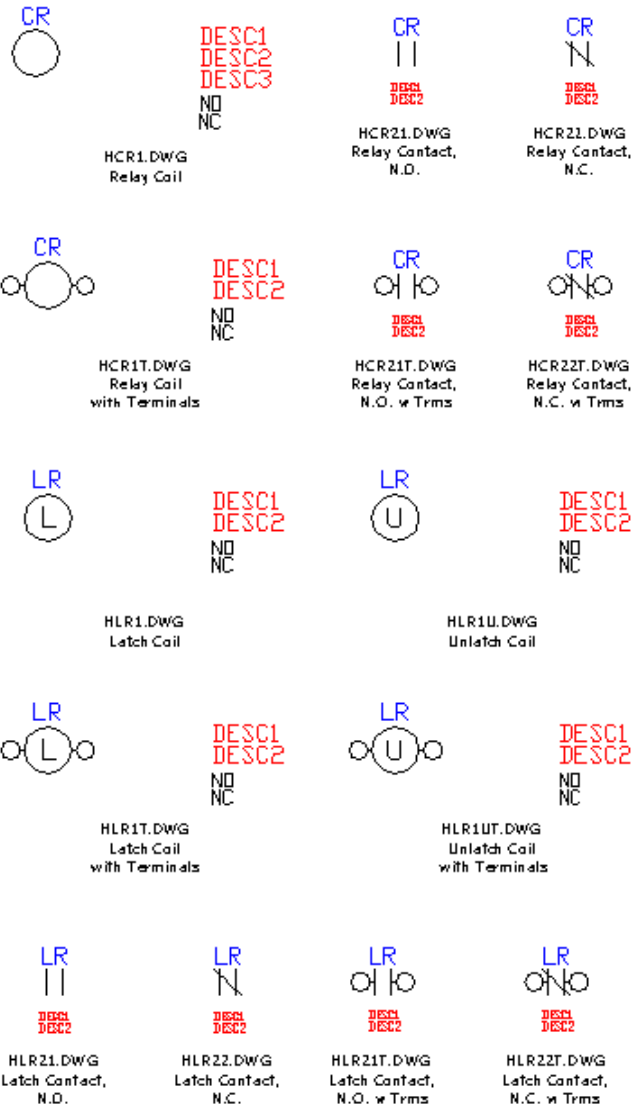


HTD1NM.DWG
Time Delay Relay,
On Delay Mu Coil



HTD1FM.DWG
Time Delay Relay,
Off Delay Mu Coil

Relays



Wire Markers

· *RED* ·

HT0_RED.DWG
Dumb Wire Label,
Red

· *BLK* ·

HT0_BLK.DWG
Dumb Wire Label,
Black

· *WHT* ·

HT0_WHT.DWG
Dumb Wire Label,
White

· *GRN* ·

HT0_GRN.DWG
Dumb Wire Label,
Green

· *BLU* ·

HT0_BLU.DWG
Dumb Wire Label,
Blue

· *YEL* ·

HT0_YEL.DWG
Dumb Wire Label,
Yellow

· *ORG* ·

HT0_ORG.DWG
Dumb Wire Label,
Orange

· *GRY* ·

HT0_GRY.DWG
Dumb Wire Label,
Grey

· *XX* ·

HT0_X1.DWG
Dumb Wire Label,
You Type





















· *XXXX* ·

HT0_X2.DWG
Dumb Wire Label,
You Type











· *XXXXXX* ·

HT0_X3.DWG
Dumb Wire Label,
You Type


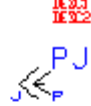


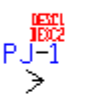


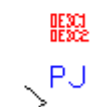
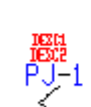

Terminals

			
HTD_01.DWG Terminal (dumb), Square	HTDW01.DWG Terminal, Square w Wire#	HTD001.DWG Terminal, Square w Term#	HT1001.DWG Terminal, Square (wire num changes)
			
HTD_02.DWG Terminal (dumb), Round	HTDW02.DWG Terminal, Round w Wire#	HTD002.DWG Terminal, Round w Term#	HT1002.DWG Terminal, Round (wire num changes)
			
HTD_03.DWG Terminal (dumb), Hexagon	HTDW03.DWG Terminal, Hex w Wire#	HTD003.DWG Terminal, Hex w Term#	HT1003.DWG Terminal, Hex (wire num changes)
			
HTD_04.DWG Terminal (dumb), Diamond	HTDW04.DWG Terminal, Diamond w Wire#	HTD004.DWG Terminal, Diamond w Term#	HT1004.DWG Terminal, Diamond (wire num changes)
			
HTD_05.DWG Terminal (dumb), Triangle	HTDW05.DWG Terminal, Triangle w Wire#	HTD005.DWG Terminal, Triangle w Term#	HT1005.DWG Terminal, Triangle (wire num changes)

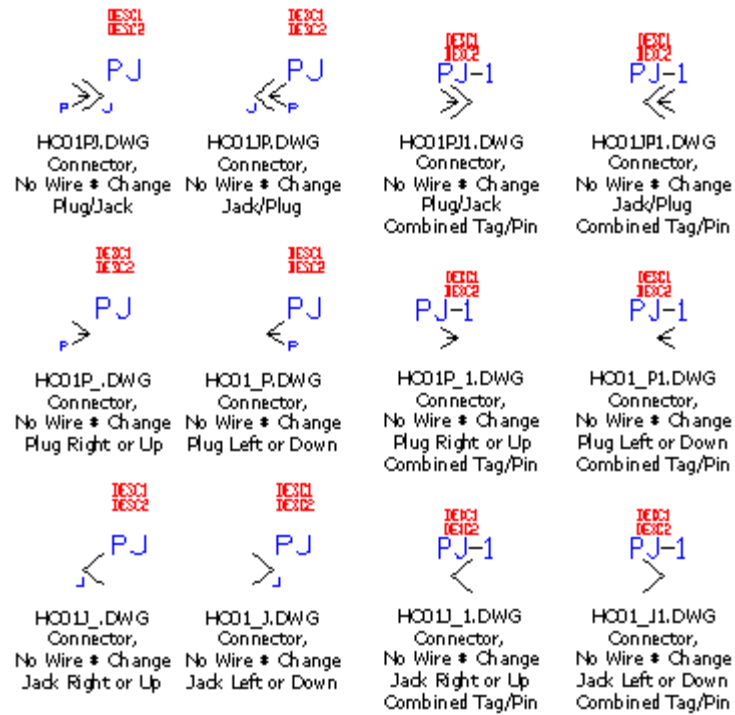
Connectors - Wire Number Change

 <p>HCN1PJ.DWG Connector, Wire # Change Plug/Jack</p>	 <p>HCN1JP.DWG Connector, Wire # Change Jack/Plug</p>		
 <p>HCN1P_.DWG Connector, Wire # Change Plug Right or Up</p>	 <p>HCN1_P.DWG Connector, Wire # Change Plug Left or Down</p>	 <p>HCN1P_1.DWG Connector, Wire # Change Plug Right or Up Combined Tag/Pin</p>	 <p>HCN1_P1.DWG Connector, Wire # Change Plug Left or Down Combined Tag/Pin</p>
 <p>HCN1J_.DWG Connector, Wire # Change Jack Right or Up</p>	 <p>HCN1_J.DWG Connector, Wire # Change Jack Left or Down</p>	 <p>HCN1J_1.DWG Connector, Wire # Change Jack Right or Up Combined Tag/Pin</p>	 <p>HCN1_J1.DWG Connector, Wire # Change Jack Left or Down Combined Tag/Pin</p>





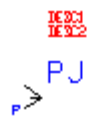
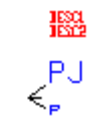

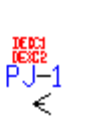
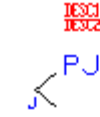
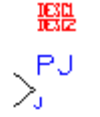
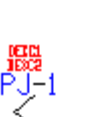
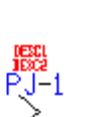
Connectors - Wire Number Change (continued)

 <p>HON2PJ.DWG Connector, Wire # Change 2nd+ Plug/Jack</p>	 <p>HON2PJ.DWG Connector, Wire # Change 2nd+ Jack/Plug</p>		
 <p>HON2P_.DWG Connector, Wire # Change 2nd+ Plug Rt or Up</p>	 <p>HON2_P.DWG Connector, Wire # Change, 2nd+ Plug Lft or Dn</p>	 <p>HON2PJ_1.DWG Connector, Wire # Change 2nd+ Plug Rt or Up Combined Tag/Pin</p>	 <p>HON2_P1.DWG Connector, Wire # Change, 2nd+ Plug Lft or Dn Combined Tag/Pin</p>
 <p>HON2J_.DWG Connector, Wire # Change 2nd+ Jack Rt or Up</p>	 <p>HON2_J.DWG Connector, Wire # Change 2nd+ Jack Lft or Dn</p>	 <p>HON2J_1.DWG Connector, Wire # Change, 2nd+ Jack Rt or Up Combined Tag/Pin</p>	 <p>HON2_J1.DWG Connector, Wire # Change, 2nd+ Jack Lft or Dn Combined Tag/Pin</p>

Connectors - No Wire Number Change



Connectors - No Wire Number Change (continued)

 <p>HC02PJ.DWG Connector, No Wire # Change 2nd+ Plug/Jack</p>	 <p>HC02JP.DWG Connector, No Wire # Change 2nd+ Jack/Plug</p>	 <p>HC02PJ1.DWG Connector, No Wire # Change 2nd+ Plug/Jack Combined Tag/Pin</p>	 <p>HC02JP1.DWG Connector, No Wire # Change 2nd+ Jack/Plug Combined Tag/Pin</p>
 <p>HC02P_.DWG Connector, No Wire # Change 2nd+ Plug Rt or Up</p>	 <p>HC02_P.DWG Connector, No Wire # Chg, 2nd+ Plug Lft or Dn</p>	 <p>HC02P_1.DWG Connector, No Wire # Chg, 2nd+ Plug Rt or Up Combined Tag/Pin</p>	 <p>HC02_P1.DWG Connector, No Wire # Chg, 2nd+ Plug Lft or Dn Combined Tag/Pin</p>
 <p>HC02J_.DWG Connector, No Wire # Chg 2nd+ Jack Rt or Up</p>	 <p>HC02_J.DWG Connector, No Wire # Chg 2nd+ Jack Lft or Dn</p>	 <p>HC02J_1.DWG Connector, No Wire # Chg, 2nd+ Jack Rt or Up Combined Tag/Pin</p>	 <p>HC02_J1.DWG Connector, No Wire # Chg, 2nd+ Jack Lft or Dn Combined Tag/Pin</p>

Standard Pilot Lights



DESC1
DESC2

HLT1R.DWG
Pilot Light, Red Standard



DESC1
DESC2

HLT1G.DWG
Pilot Light, Green Standard



DESC1
DESC2

HLT1A.DWG
Pilot Light, Amber Standard



DESC1
DESC2

HLT1B.DWG
Pilot Light, Blue Standard



DESC1
DESC2

HLT1W.DWG
Pilot Light, White Standard



DESC1
DESC2

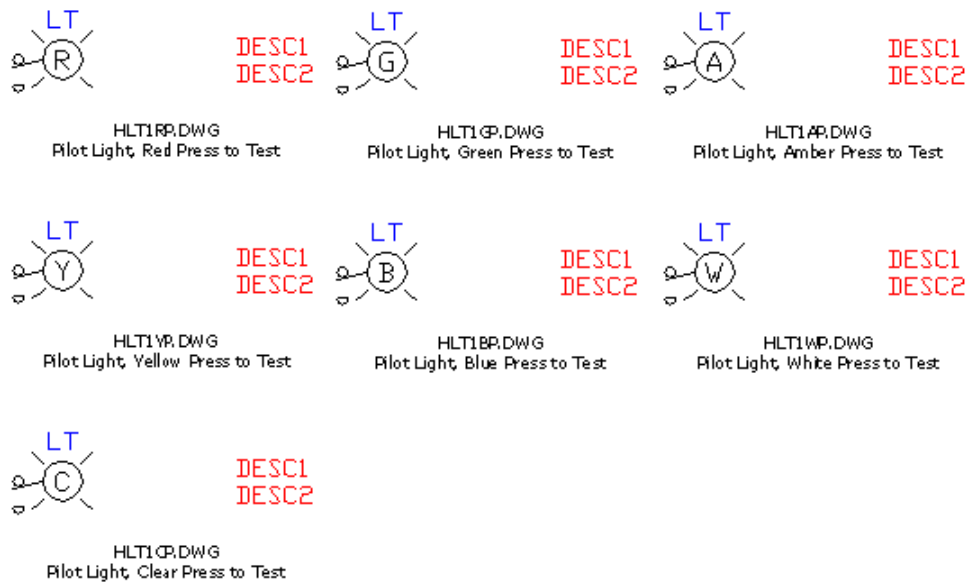
HLT1C.DWG
Pilot Light, Clear Standard



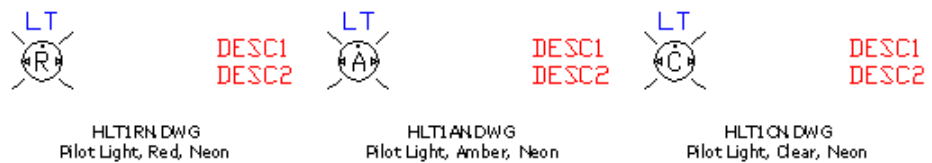
DESC1
DESC2

HLT1Y.DWG
Pilot Light, Yellow Standard

Press to Test Pilot Lights



Neon Pilot Lights



Master Test Pilot Lights



DESC1
DESC2

HLT1RMDWG
Pilot Light, Red, Master Test



DESC1
DESC2

HLT1GM.DWG
Pilot Light, Green, Master Test



DESC1
DESC2

HLT1AMDWG
Pilot Light, Amber, Master Test



DESC1
DESC2

HLT1BMDWG
Pilot Light, Blue, Master Test



DESC1
DESC2

HLT1WMDWG
Pilot Light, White, Master Test



DESC1
DESC2

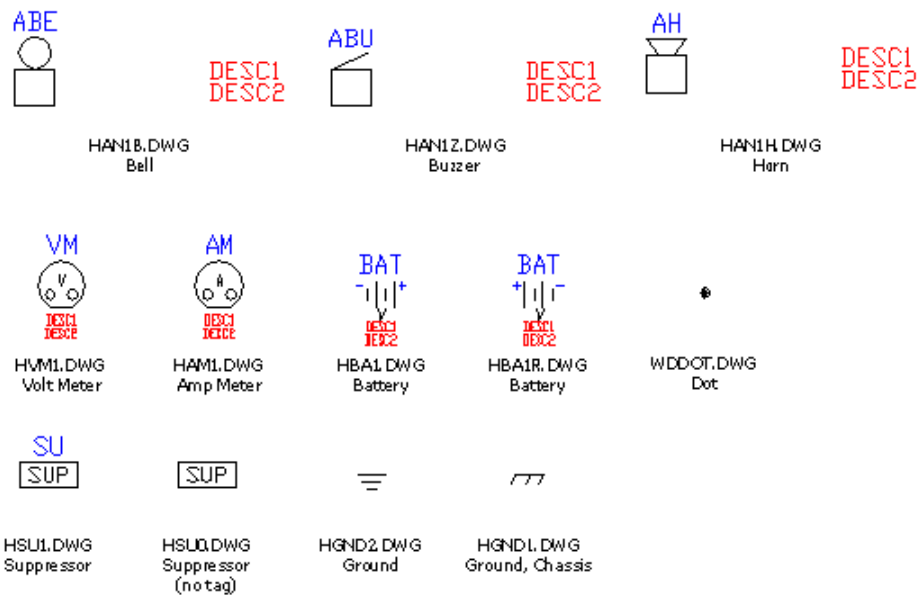
HLT1CMDWG
Pilot Light, Clear, Master Test



DESC1
DESC2

HLT1YMDWG
Pilot Light, Yellow, Master Test

Miscellaneous



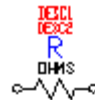
Electronics



HRE1.DWG
Fixed Resistor



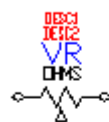
HRE1B.DWG
Fixed Resistor,
Box



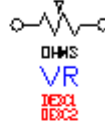
HRE1T.DWG
Fixed Resistor,
w Terminal Pins



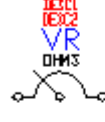
HRE1TB.DWG
Fixed Resistor,
Box w Term Pins



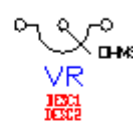
HVR1TZ.DWG
Variable Resistor



HVR1TZR.DWG
Variable Resistor



HVR1.DWG
Variable Resistor



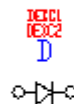
HVR1R.DWG
Variable Resistor



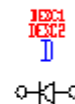
HDI1.DWG
Diode



HDI1R.DWG
Diode



HDI1T.DWG
Diode,
w Terminal Pins



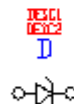
HDI1TR.DWG
Diode,
w Terminal Pins



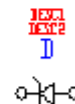
HDI1Z.DWG
Zener Diode



HDI1ZR.DWG
Zener Diode



HDI1TZ.DWG
Zener Diode,
w Terminal Pins



HDI1TZR.DWG
Zener Diode,
w Terminal Pins



HCA1.DWG
Capacitor



HCA1T.DWG
Capacitor,
w Terminal Pins

Receptacles

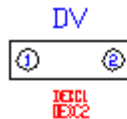


HCN1RDUP.DWG
Duplex Receptacle



HCN1RSGL.DWG
Single Receptacle

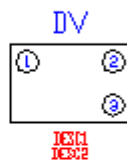
Generic Boxes



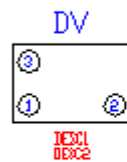
HDV1TB.DWG
Generic Device Box
2-Terminals



HDV1TE.DWG
Generic Device Box
3-Terminals



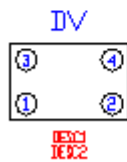
HDV1T7.DWG
Generic Device Box
3-Terminals



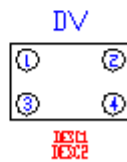
HDV1TC.DWG
Generic Device Box
3-Terminals



HDV1TB.DWG
Generic Device Box
3-Terminals

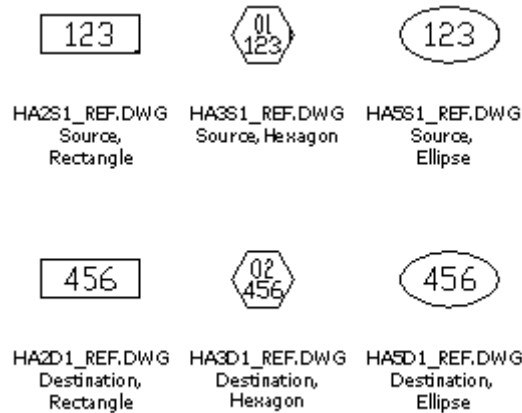


HDV1TFL.DWG
Generic Device Box
4-Terminals

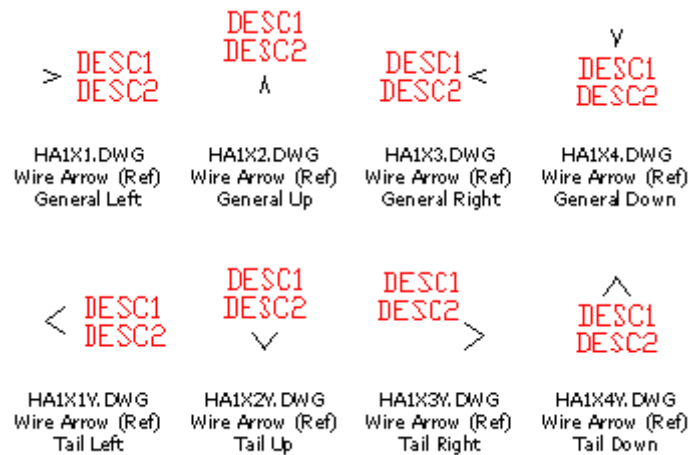


HDV1TF.DWG
Generic Device Box
4-Terminals

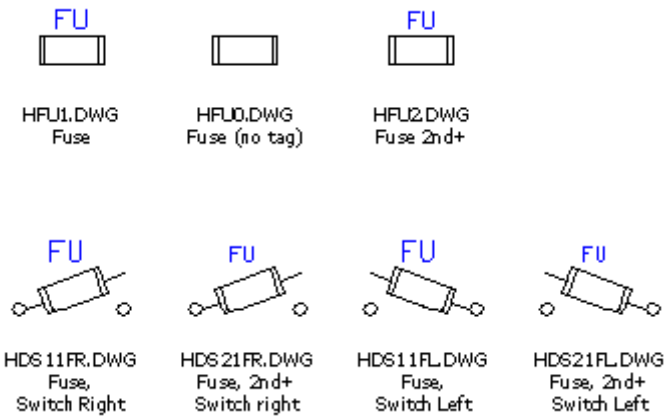
Stand-Alone Cross Reference



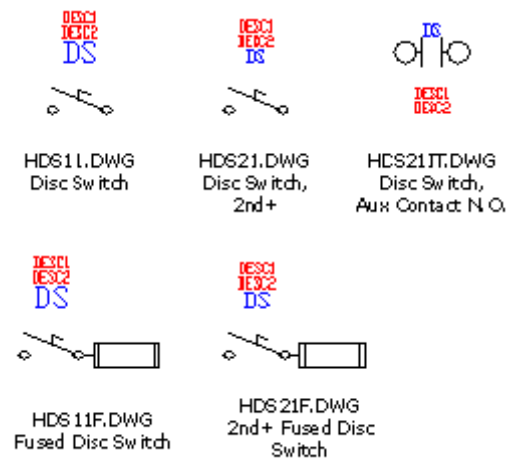
Wire Arrows - Reference Only



Fuses



Disconnect Switches



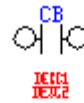
Circuit Breakers



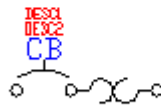
HCB1.DWG
Circuit Breaker,
1-Pole



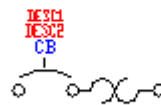
HCB2.DWG
Circuit Breaker,
2nd+ 1-Pole



HCB21JT.DWG
Circuit Breaker,
Aux Contact: N.O.



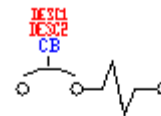
HCB11TH.DWG
Circuit Breaker,
Thermal



HCB21TH.DWG
Circuit Breaker,
2nd+ Thermal



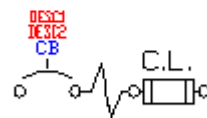
HCB11M.DWG
Circuit Breaker,
MCP



HCB21M.DWG
Circuit Breaker,
2nd+ MCP

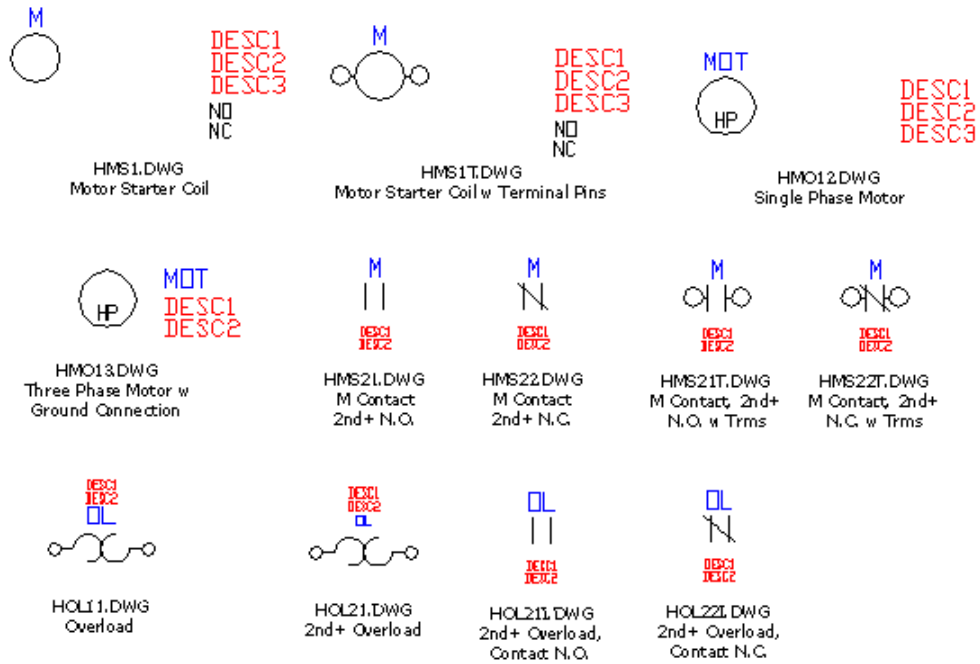


HCB11ML.DWG
Circuit Breaker,
MCP w CL

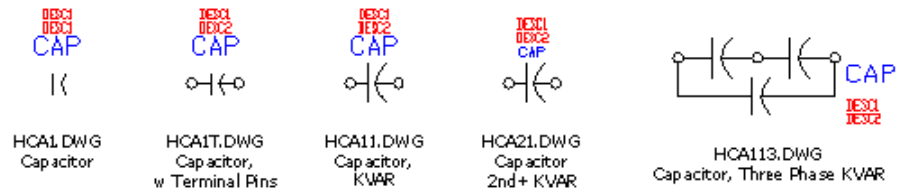


HCB21ML.DWG
Circuit Breaker,
2nd+ MCP w CL

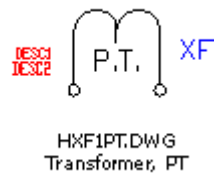
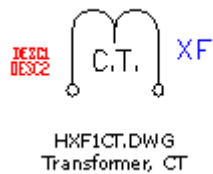
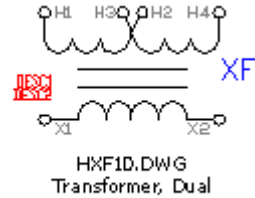
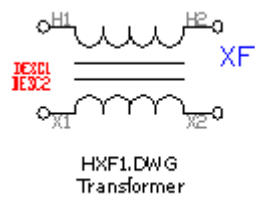
Motor Control



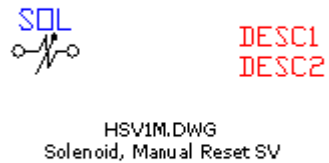
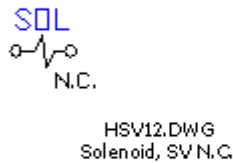
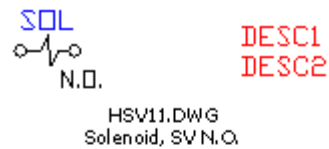
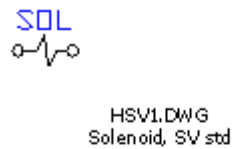
Capacitors



Transformers



Solenoids



Instruments

