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

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

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW01.dwg</td>
<td>parent cable conductor marker, horizontal wire insertion</td>
</tr>
<tr>
<td>HW02.dwg</td>
<td>child cable marker, horizontal wire insertion</td>
</tr>
<tr>
<td>VW01.dwg</td>
<td>parent cable conductor marker, vertical wire insertion</td>
</tr>
<tr>
<td>VW02.dwg</td>
<td>child cable marker, vertical wire insertion</td>
</tr>
</tbody>
</table>

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_PNL.M.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_MLRH.X.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_MLRV.X.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 “CO” 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: HAS5... and HASD...). For example, copy Autodesk\Acade {version number}\Libs\ic1\ha1s*.dwg to ha5s*.dwg and Autodesk\Acade {version number}\Libs\ic1\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

PLCIO1050E1761 -L16AWA.dwg
AB 1761 model L16-AWA with 0.5 unit rung spacing

PLCIOI1T.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**

- [Illustration of push button symbols]
  - HPB11.DWG: Push button, N.O.
  - HPB12.DWG: Push button, N.C.
  - HPB1M.DWG: Mushroom PB, N.O.
  - HPB13M.DWG: Mushroom PB, N.C.

- [Illustration of push button symbols]
  - HPB21.DWG: Contact, N.O. 2nd +
  - HPB22.DWG: Contact, N.C. 2nd +
Illuminated Push Buttons

- HPB1.1.DWG: Illum RB, N.O.
- HPB1.2.DWG: Illum RB, N.C.
- HPB1.1NL.DWG: Illum RB, N.O.
- HPB1.2NL.DWG: Illum RB, N.C.
- PBLT: Mushroom Head

- PBLT: Red Light
- PBLT: Green Light
- PBLT: Amber Light
- PBLT: Yellow Light

- PBLT: Blue Light
- PBLT: White Light
- PBLT: Clear Light
Selector Switches

HSS112.DWG
Selector Switch, 2 pos Maintained Shown N.O.
HSS121.DWG
Selector Switch, 2 pos Maintained Shown N.C.
HSS112.L.DWG
Selector Switch, 2 pos Spr Rtn from Left, Shown N.Q.
HSS121.L.DWG
Selector Switch, 2 pos Spr Rtn from Left, Shown N.C.

HSS113.R.DWG
Selector Switch, 3 pos Spr Rtn from Right, Shown N.O.
HSS123.R.DWG
Selector Switch, 3 pos Spr Rtn from Right, Shown N.C.
HSS113.L.DWG
Selector Switch, 3 pos Spr Rtn from Left, Shown N.Q.
HSS123.L.DWG
Selector Switch, 3 pos Spr Rtn from Left, Shown N.C.
Illuminated Selector Switches

HSS112L.DWG Illum Sel Switch, 2 pos Maintained Shown N.O.  HSS112L.DWG Illum Sel Switch, 2 pos Maintained Shown N.C.  HSS112L.DWG Illum Sel Switch, 2 pos Spr Rm from Left, Shown N.O.  HSS112L.DWG Illum Sel Switch, 2 pos Spr Rm from Left, Shown N.C.

HSS112L.DWG Illum Sel Switch, 2 pos Spr Rm from Right, Shown N.O.  HSS112L.DWG Illum Sel Switch, 2 pos Spr Rm from Right, Shown N.C.  HSS113L.DWG Illum Sel Switch, 3 pos Maintained Shown N.O.  HSS113L.DWG Illum Sel Switch, 3 pos Maintained Shown N.C.

HSS113L.DWG Illum Sel Switch, 3 pos Spr Rm from Left, Shown N.O.  HSS113L.DWG Illum Sel Switch, 3 pos Spr Rm from Left, Shown N.C.  HSS123L.DWG Illum Sel Switch, 3 pos Spr Rm from Right, Shown N.O.  HSS123L.DWG Illum Sel Switch, 3 pos Spr Rm from Right, Shown N.C.

HSS130L.DWG Illum Sel Switch, 3 pos Spr Rm to Center, Shown N.O.  HSS130L.DWG Illum Sel Switch, 3 pos Spr Rm to Center, Shown N.C.  HSS2B.DWG Illum Sel Switch  Red Light for Illum Sel Switch  HSS2B.DWG Illum Sel Switch  Green Light for Illum Sel Switch

HSS2A.DWG Amber Light for Illum Sel Switch  HSS2A.DWG Yellow Light for Illum Sel Switch  HSS2A.DWG Blue Light for Illum Sel Switch  HSS2M.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

- HFS12.DWG Flow Switch, N.O.
- HFS22.DWG Flow Switch, 2nd + N.C.

Level Switches

- HFL12.DWG Level Switch, N.C.
- HFL22.DWG Level Switch, 2nd + N.C.

Proximity Switches

- HPX12.DWG Prox Switch, N.O.
- HPX22.DWG Prox Switch, 2nd + N.C.
Foot Switches

HFT11.DWG
Foot Switch, N.O.

HFT12.DWG
Foot Switch, N.C.

HFT21.DWG
Foot Switch, 2nd + N.O.

HFT22.DWG
Foot Switch, 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.
Photo Eyes

Power Distribution Blocks
Timers

- **TD**
- **DESC1 DESC2**

**HT011.DWG**
Time Delay Relay, On Delay Coil

**HT021.DWG**
Time Delay Relay, On Delay Coil with Terminal

**HT031.DWG**
Time Delay Relay, Off Delay Coil

**HT041.DWG**
Time Delay Relay, Off Delay Relay with Terminal
## Wire Markers

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>HTO_RED.DWG Dumb Wire Label, Red</td>
</tr>
<tr>
<td>BLK</td>
<td>HTO_BLK.DWG Dumb Wire Label, Black</td>
</tr>
<tr>
<td>WHT</td>
<td>HTO_WHT.DWG Dumb Wire Label, White</td>
</tr>
<tr>
<td>GRN</td>
<td>HTO_GRN.DWG Dumb Wire Label, Green</td>
</tr>
<tr>
<td>BLU</td>
<td>HTO_BLU.DWG Dumb Wire Label, Blue</td>
</tr>
<tr>
<td>YEL</td>
<td>HTO_YEL.DWG Dumb Wire Label, Yellow</td>
</tr>
<tr>
<td>DRG</td>
<td>HTO_DRG.DWG Dumb Wire Label, Orange</td>
</tr>
<tr>
<td>GRY</td>
<td>HTO_GRY.DWG Dumb Wire Label, Grey</td>
</tr>
<tr>
<td>XX</td>
<td>HTO_XX.DWG Dumb Wire Label, You Type</td>
</tr>
<tr>
<td>XXX</td>
<td>HTO_XXX.DWG Dumb Wire Label, You Type</td>
</tr>
<tr>
<td>XXXX</td>
<td>HTO_XXXX.DWG Dumb Wire Label, You Type</td>
</tr>
</tbody>
</table>
Terminals

HTD01.DWG
Terminal (dumb),
Square

HTD02.DWG
Terminal (dumb),
Round

HTD03.DWG
Terminal (dumb),
Hexagon

HTD04.DWG
Terminal (dumb),
Diamond

HTD05.DWG
Terminal (dumb),
Triangle

HTD01.DWG
Terminal, Square

HTD02.DWG
Terminal, Round

HTD03.DWG
Terminal, Hex

HTD04.DWG
Terminal, Diamond

HTD05.DWG
Terminal, Triangle

HTD01.DWG
Square (wire num changes)

HTD02.DWG
Round (wire num changes)

HTD03.DWG
Hex (wire num changes)

HTD04.DWG
Diamond (wire num changes)

HTD05.DWG
Triangle (wire num changes)
Connectors - Wire Number Change

HCP1L.DWG
Connector,
Wire # Change
Plug/Jack

HCP1L.P.DWG
Connector,
Wire # Change
Plug Right or Up

HCP1L.DWG
Connector,
Wire # Change
Plug Left or Down

HCP1L.P.DWG
Connector,
Wire # Change
Plug Right or Up

HCP1L.P.DWG
Connector,
Wire # Change
Plug Left or Down

HCP1L.P.DWG
Connector,
Wire # Change
Combines Tag/Pin

HCP1L.DWG
Connector,
Wire # Change
Combines Tag/Pin

HCP1L.DWG
Connector,
Wire # Change
Jack Right or Up

HCP1L.P.DWG
Connector,
Wire # Change
Jack Left or Down

HCP1L.P.DWG
Connector,
Wire # Change
Combined Tag/Pin

HCP1L.P.DWG
Connector,
Wire # Change
Combined Tag/Pin

HCP1L.DWG
Connector,
Wire # Change
Combines Tag/Pin

HCP1L.P.DWG
Connector,
Wire # Change
Combined Tag/Pin
Connectors - Wire Number Change (continued)
Connectors - No Wire Number Change
Connectors - No Wire Number Change (continued)
Standard Pilot Lights

- LT (R) DESC1 DESC2: Pilot Light, Red Standard
- LT (G) DESC1 DESC2: Pilot Light, Green Standard
- LT (A) DESC1 DESC2: Pilot Light, Amber Standard
- LT (B) DESC1 DESC2: Pilot Light, Blue Standard
- LT (W) DESC1 DESC2: Pilot Light, White Standard
- LT (C) DESC1 DESC2: Pilot Light, Clear Standard
- LT (Y) DESC1 DESC2: Pilot Light, Yellow Standard
Press to Test Pilot Lights

- LT R: Pilot Light, Red Press to Test
- LT G: Pilot Light, Green Press to Test
- LT A: Pilot Light, Amber Press to Test
- LT Y: Pilot Light, Yellow Press to Test
- LT B: Pilot Light, Blue Press to Test
- LT V: Pilot Light, White Press to Test
- LT C: Pilot Light, Clear Press to Test

Neon Pilot Lights

- LT R: Pilot Light, Red Neon
- LT A: Pilot Light, Amber Neon
- LT C: Pilot Light, Clear Neon
Master Test Pilot Lights

- LT R: Pilot Light, Red, Master Test
- LT G: Pilot Light, Green, Master Test
- LT A: Pilot Light, Amber, Master Test
- LT B: Pilot Light, Blue, Master Test
- LT V: Pilot Light, White, Master Test
- LT C: Pilot Light, Clear, Master Test
- LT Y: Pilot Light, Yellow, Master Test
Miscellaneous

- ABE
- DESC1 DESC2
- ABU
- DESC1 DESC2
- AH
- DESC1 DESC2

- VM
- AM
- BAT
- BAT

- HAN1 DWG
- Volt Meter
- HAN2 DWG
- Amp Meter
- HAN3 DWG
- Battery
- HAN4 DWG
- Battery
- VDDOT.DWG
- Bat

- SU
- SUP

- MSUL DWG
- Suppressor
- MSUL DWG
- Suppressor (notag)
- MSUL DWG
- Ground
- MSUL DWG
- Ground, Cables
Electronics

- **HR112.DWG**: Fixed Resistor
- **HR113.DWG**: Fixed Resistor, Box
- **HR114.DWG**: Fixed Resistor, w Terminal Pins
- **HR115.DWG**: Fixed Resistor, Box w Term Pins

- **HR122.DWG**: Variable Resistor
- **HR123.DWG**: Variable Resistor
- **HR124.DWG**: Variable Resistor
- **HR125.DWG**: Variable Resistor

- **HD112.DWG**: Diode
- **HD113.DWG**: Diode, w Terminal Pins
- **HD114.DWG**: Diode, w Term Pins

- **HD122.DWG**: Zener Diode
- **HD123.DWG**: Zener Diode, w Terminal Pins
- **HD124.DWG**: Zener Diode, w Term Pins

- **HC13.DWG**: Capacitor
- **HC14.DWG**: Capacitor, w Terminal Pins

31
Receptacles

Generic Boxes
Stand-Alone Cross Reference

Wire Arrows - Reference Only
Fuses

- FU
  - HFL1.DWG Fuse
  - HFL0.DWG Fuse (no tag)
  - HFL2.DWG Fuse 2nd+

- FU
  - HDS1.FR.DWG Fuse, Switch Right
  - HDS2.FR.DWG Fuse, 2nd+ Switch right
  - HDS1.IL.DWG Fuse, Switch Left
  - HDS2.IL.DWG Fuse, 2nd+ Switch Left

Disconnect Switches

- DS
  - HDS1.AI.DWG Disc Switch
  - HDS2.AI.DWG Disc Switch, 2nd+
  - HDS2.IT.DWG Disc Switch, Aux Contact N.O.

- DS
  - HDS1.IF.DWG Fused Disc Switch
  - HDS2.IF.DWG 2nd+ Fused Disc Switch
Circuit Breakers

- HCB1.DWG
  Circuit Breaker, 1-Pole
- HCB2.DWG
  Circuit Breaker, 2nd+1-Pole
- HCB21T.DWG
  Circuit Breaker, Aux Contact N.O.

- HCB11TH.DWG
  Circuit Breaker, Thermal
- HCB21TH.DWG
  Circuit Breaker, 2nd+ Thermal

- HCB1IM.DWG
  Circuit Breaker, MCP
- HCB21M.DWG
  Circuit Breaker, 2nd+ MCP

- HCB1IML.DWG
  Circuit Breaker, MCP+ CL
- HCB21ML.DWG
  Circuit Breaker, 2nd+ MCP+ CL
Motor Control

Motor Starter Coil

Motor Starter Coil w/ Terminal Rms

Single Phase Motor

Three Phase Motor w/ Ground Connection

M Cont 2nd + N.O

M Cont 2nd + N.C

M Cont 2n+ N.O, N.C

M Cont 2nd+ N.O, N.C

Overload

2nd + Overload

2nd + Overload, Contac N.O

2nd + Overload, Contac N.C

Capacitors

Cap w/ Terminal Rms

Cap, KVAR

Cap, 2nd+ KVAR

Cap, Three Phase KVAR
Transformers

HKLFL.DWG
Transformer

HFLD.DWG
Transformer, Dual

HFKCT.DWG
Transformer, CT

HFKPT.DWG
Transformer, PT

Solenoids

HSV1.DWG
Solenoid, SV std

HSV11.DWG
Solenoid, SV N.O.

HSV12.DWG
Solenoid, SV N.C.

HSVIM.DWG
Solenoid, Manual Reset SV

HSV21.DWG
Solenoid, 2nd + N.O.

HSV22.DWG
Solenoid, 2nd + N.C.
Instruments

TC

HTC1L.DWG
Thermocouple

HTC1R.DWG
Thermocouple

TC

HTC1LB.DWG
Thermocouple w Trm Brd

HTC1RB.DWG
Thermocouple w Trm Brd

FV

DESC1
DESC2

HLVIM.DWG
Globe Valve

HGVIM.DWG
Gate Valve

HBUIM.DWG
Ball Valve