The Constructor 16
by CMH Software, Inc

The Constructor software has the tools you need to create fast, professional electrical diagrams. Full circuit simulation adds to the power of The Constructor by giving you a unique troubleshooting toolset that can help you narrow down problems early on before you hard wire in the field.

The Constructor has a powerful easy-to-use interface equipped with hundreds of ready-to-use symbols, drawing tools, diagram controls and more. The Constructor is capable of simple to complex single or three-phase wiring diagrams.

NEW FEATURES FOR VERSION 16

▶ **Improved PDF and DXF Export**

▶ **Automatic creation of PDF export symbols**

▶ **Advanced IT Installation Features**

▶ **Added Border sizing for solid line drawing tools**

Easy-to-use interface
All tools are arranged on the main screen for quick access.

Over 950 symbols
Symbols include active & inactive arranged in categorized libraries.

Simulation Engine
With a finished diagram, you can virtually test and run a circuit.

Print Wire Labels
Choose from many pre made wire label templates.

Symbol Library Search
Quickly search for specific symbols using keywords.

Wire Coloring
Easily change the color of the wires in the Constructor.

Drawing Tools
Create extra displays using ellipses, lines and box tools.

Zooming
Full zoom control on your diagram as well as symbol libraries for a bigger view.
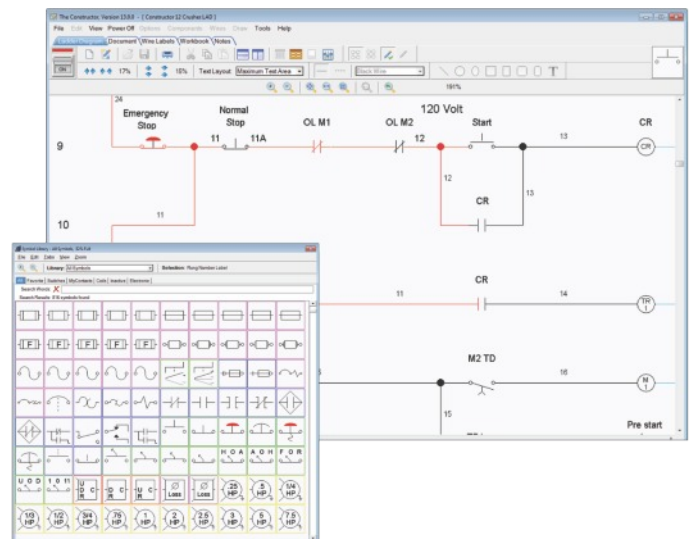
Export to Various File Formats
Export your drawings to PDF or DXF.

Active Help Files
Get easy help instantly by moving your mouse over an icon, menu item symbol and more for detailed information on your selection or how to perform a task.

Choose from over 950 symbols searchable by symbol type all in one library. You can even edit current symbols or create your own using the included symbol editor.

Easily insert transformers and multiple power point sets.

A 300 rung by 300 column diagram can be supported for in depth projects.

Environment customizing and diagram spacing features are easy to access and change.
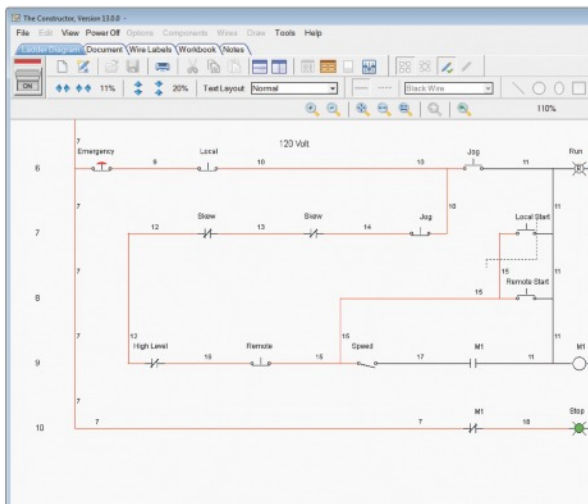
Generic I/O modules, terminal strips, variable speed drives and soft starters are included plus additional modules are available categorized by manufacturer. These modules snap into The Constructor diagram for easy wiring and labeling.

FEATURES that make
ELECTRICAL DESIGN
a snap!

The Constructor offers a wide arrangement of tools that make the design process easy and professional. Spending countless hours on an electrical diagram can now be significantly reduced by using our quick symbol and wiring placement abilities.

Circuit Simulation

The Constructor is unique in it's ability to test and troubleshoot an electrical circuit. Once a ladder diagram is designed, any circuit can be virtually energized and operated with a simple click of the mouse. The Constructor simulation engine visually displays power flow to each component and using animation and sound effects, each component will react accordingly once power is supplied.
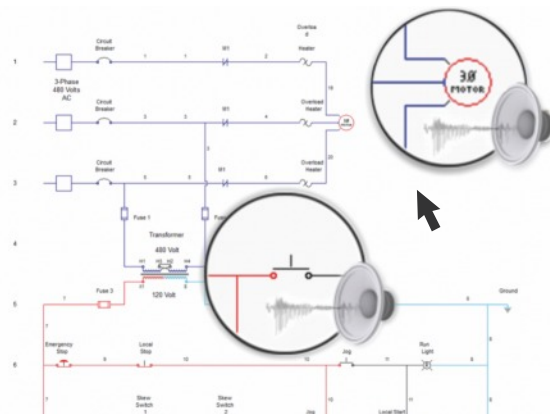

Add symbols and wires with a single click, set wire colors, create templates from sections of your project, draw over top of your schematic for added detail and text, easy spacing controls for your design environment, export finished diagrams to PDF or DXF, add documentation to your project and much more. The Constructor has many features that will help you get your projects done quickly.

Realistic sound effects

The Constructor has the ability to include realistic sound effects during simulation. Enhance your circuit simulation by assigning various sounds to motors, sirens, buzzers, switches, breakers, contacts, relays and more.

Multiple sound channels allow you to hear up to 20 different sounds at once.

The Constructor includes several sounds to choose from when creating/simulating your diagrams. An optional sound library is available which allows you to add 126 more sound effects to your existing library.

SYSTEM REQUIREMENTS:

▸ Processor (1Ghz)
▸ 1 GB RAM
▸ Resolution 1024x768
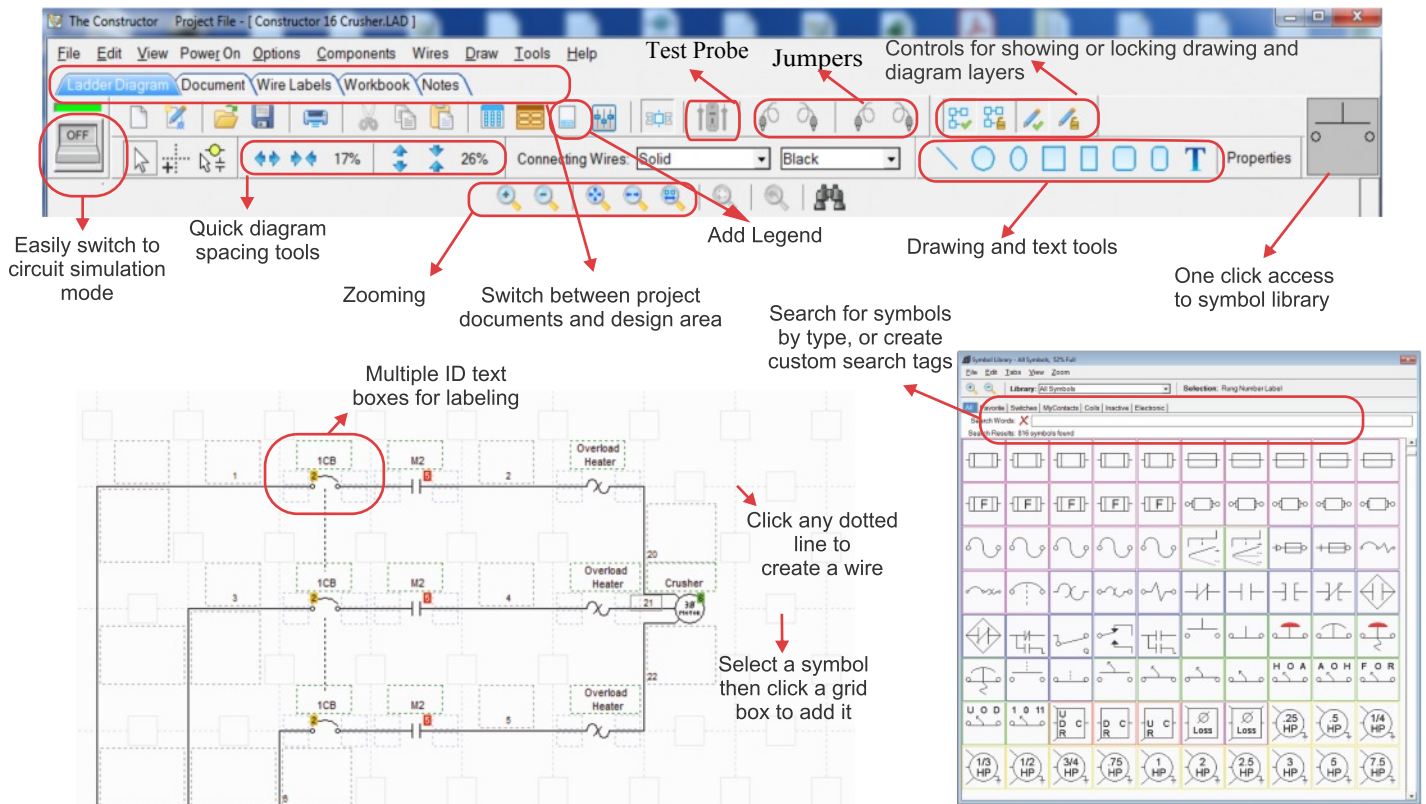
▸ Sound Card
(For sound effects)

Windows 11 - 10 - 8 - 7

CMH Software, Inc.

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User-Friendly Interface

Access tools and features with ease!

Test Probe

Jumpers

Controls for showing or locking drawing and diagram layers

Add Legend

Drawing and text tools

Easily switch to circuit simulation mode

Quick diagram spacing tools

Zooming

Switch between project documents and design area

One click access to symbol library

Multiple ID text boxes for labeling

Search for symbols by type, or create custom search tags

Click any dotted line to create a wire

Select a symbol then click a grid box to add it

Object alignment & layer control

Using the positioning tools in the drawing window you can easily align objects pixel by pixel. You can also easily lock and hide layers for more control in the design environment.

Quickly change object properties

You can quickly group several objects together and select a color fill or line style that will directly affect all objects within the designated group. You can also change the layer order as well as lock the drawing objects in place. An "Auto Resize To Grid" option is available which allows an object to be sized as you change grid spacing settings.

Insert / edit templates

Save drawing objects and parts of circuits as templates for quick and easy use in other projects.

Legends & printing

When printing you can choose to add borders, print to large format printers and even scale a diagram to fit a designated area.

Quickly import and edit legends.

Online update feature

Keep up to date with the latest news and software patches for the Constructor program.

Customizable interface

Choose from several background colors as well as adjust the Constructor's main window form colors to fit your taste.

Symbol library search

Locate the type of symbols you are looking for by selecting from a list of predefined searches or simply type in a search field the type of symbol you desire.