Inkscape Electric Symbols Library

Using the library
* Open Inkscape_Symbols_All.svg and copy the symbols of interrest to your inkscape sheet
* Recommended way to move objects: drag them next to a endpoint (it makes a difference where you touch the component), to make shure to work on the rough grid (recommended, not the fine one)
* Recommended way to modify wires: Mark line (F1-key for mark-tool), press F2-key, click on the end of the line so that the fixed point becomes red, now you can move this point.
* Recommended way to rotate the component: click 2 times on the component until the turning arrows are visible. Turn the component while keeping the ctrl key pressed.
* Recommended way to mirrow components: Press v (vertical) or h (horizontal)
* Recommended way to changes text: click on text, press 't' for editing mode
* Grid on/off by #-key
* Change Color of area: Mark area, click on Color
* Change Color of line: Mark line, shift + click on Color
* Note: Some components consist of areas and lines (e.g. arrow). When changing color, both actions must be performed. Due to a program bug, sometimes the change becomes effective after opening the formating editor (Ctrl + shift + F)

Standard Elements

Fuse · Resistor · Varistor · Potentiometer · Capacitor · Polarized Cap. · Adjustable Cap. · Inductor · Transformer · Diode · LED · Z-Diode · Schottky · Bipolar Z-Diode · Valve · Valve · Thyristor · Diac · Triac

MOSFET Depletion Type (normally-on)
MOSFET Enhancement Type (normally-off)
MOSFET Depletion Type (normally-on)
MOSFET Enhancement Type (normally-off)
IGBT
NPN Bipolar Transistor
PNP Bipolar Transistor
GaN Transistor

Lines

nodes
bridges

Designators

text 12p	text 8p
$\downarrow U_{DC}$ $\downarrow i_{DC}$ F_1 R_1 L_1 C_1 P_{AC}	$\downarrow U_{ZK}$ $\downarrow I_{DC}$ F_1 R_1 L_1 C_1 P_{AC}
U_{DC} i_{DC} T_1 D_1 V_1 M_1 U_1 I_1	U_{ZK} I_{DC} T_1 D_1 V_1 M_1 U_1 I_1
3V3 5V 9V 12V 15V 24V +12V +15V -12V -15V	3V3 5V 9V 12V 15V 24V +12V +15V -12V -15V
αβγδεηθκλμνπρστυφψωϑΦ ΔΘΣ ψΩ	αβγδεηθκλμνπρστυφψωϑΦ ΔΘΣ ψΩ Font P052

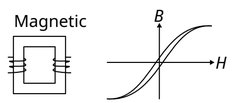
Drawing Elements

Scope · Impedance Analyzer · Source / Load · Power Analyzer · Transistor Housings · Server · SD card · Neuronal network

Sources

Voltage Source · Current Source · Battery · PV

Magnetic



Earth symbols

Measurement

Switches

Switch · Switch Opener

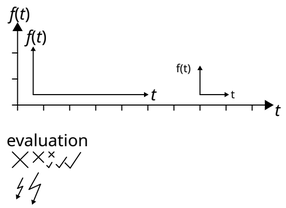
Miscellaneous

Spark gap

Logical Operations

Product · Division · Signal limitation · Sum · Integrator · LUT · Opamp · Gain · AND · NAND · OR · NOR · Multiplexer · Demultiplexer

Signals



DC/DC Converters

LLC Converter · Dual Active Bridge · Boost-Converter · Buck-Converter · Buck-Boost-Converter · Phase shifted full bridge · Flyback-Converter

Standard B6-Topologies

Input topologies · Output topologies

Standard 3-Level-Topologies

Three Level NPC (Neutral Point Clamped)
Three Level TNPC (T-Type Neutral Point Clamped)

Test circuits

Clamped inductive switching
'Double pulse test'