

Coding letters for electrical circuit diagrams

All electrical and electronic components and equipment are given code letters. These letters, which are selected according to function, are laid down in the following three standards: LN 8305, sheets 1 and 2 (extracts), CEI recommendation 113-2 and DIN 40719.

Code letter	Type of component or equipment	Examples	Code letter	Type of component or equipment	Examples
A	Sub-assemblies or parts of sub-assemblies	Inserts for fixed mounting or for turning, flapping, swivelling, sliding or plugging in. Partial, complete, or multiple inserts such as plug-in cards and plug-in blocks, parts, connecting stages, sub-prints, modules. Standardized component combinations in the form of frames, panels and housings.	N	Amplifiers, controllers	Devices for analog control techniques. Electronic and electro-mechanical controllers.
B	Converters of electrical to non-electrical parameters and vice-versa	Measurement converters, detectors, thermo-elements, resistance thermometers, photo-electric cells, photo-resistances, photo-amplifiers, r.p.m. and speed meters.	P	Measuring instruments, testing devices	Analog, binary and digital indicating and recording measuring instruments. Indicators, recorders, meters, digital indication.
D	Delay devices, memory devices, binary, elements	Devices used in binary and digital control and computing techniques. Delay devices and timers.	Q	Heavy current switchgear	Switches in main current circuits and relay devices. Power switches, separators, load separators, star-delta starters, pole converters, switch rollers and motor protection switches.
E	Miscellaneous	Components which are not included in the other sections of this table or which cannot be otherwise classified. e.g. fans, heating devices and combinations of several other units.	R	Resistances	Fixed, adjustable and control resistances. Remote set point units.
F	Protection devices	Fuses of all types, protection relays, bimetal switches, magnetic switches, pressure switches, electronic devices for signal monitoring, signalling, function fail-safe devices.	S	Switches, selector switches	Command units, input units, pushbuttons, swivel buttons, illuminating pushbuttons, control switches, limit switches, selector switches, measuring point changeover switches, control rollers, function push-buttons, programme switches.
G	Generators, power generation	Rotary and static generators, converters and power supply units.	T	Transformers	Power and control transformers and transmitters.
H	Annunciating devices	Visual and acoustical annunciating units for warning and time signalling, time switches.	U	Modulators, converters	Frequency modulators, analog-digital converters, digital-analog converters, analog-binary converters, signal separation stages, parallel-series converters, coding devices, d.c. current and d.c. voltage converters.
K	Relays	Power relays, auxiliary relays, time relays, blinking relays.	X	Terminals, plugs, sockets	Separating and testing plugs, terminal strips, solder strips, priority distributors.
M	Motors		Y	Electrically actuated mechanical devices	Valves, actuators, motorized potentiometers, control-motors.

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