Single line diagram symbols, ANSI

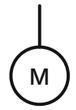
Symbols as drawn on US one-line diagrams (IEEE 315 practice). Drawn by Deskely. Project legend sheets take precedence.

deskely

SOURCES AND MACHINES



Generator



Motor

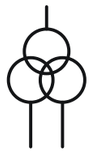


Battery

TRANSFORMERS



Transformer



Three-winding transformer

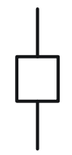


Current transformer (CT)

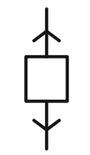


Voltage transformer (VT)

SWITCHING DEVICES



Circuit breaker



Draw-out circuit breaker



Low voltage circuit breaker



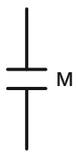
Disconnect switch



Load break switch



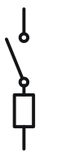
Earthing switch



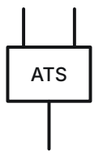
Contactor



Fuse

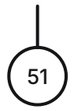


Fused switch



Automatic transfer switch

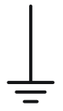
PROTECTION AND METERING



Protective relay



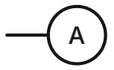
Surge arrester



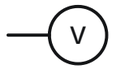
Ground



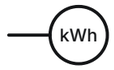
Neutral grounding resistor



Ammeter

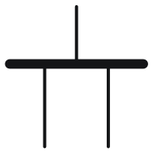


Voltmeter



Energy meter

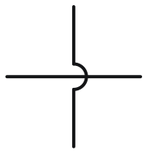
BUSBARS AND CONNECTIONS



Busbar



Connection



Crossing, not connected

LOADS AND POWER ELECTRONICS



Capacitor bank

Reactor



Variable frequency drive



Rectifier



Inverter



UPS



Load