Electrical Schematic Symbols

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Connection and earth symbols



Conductor junction



Terminal



Earth (ground)



Protective earth (PE)



Chassis or frame connection

Protection and switching symbols

Fuse

Circuit breaker



Motor protective circuit breaker

Disconnector (isolator)

Switch-disconnector



Thermal overload relay

Contact symbols

Normally open contact

Normally closed contact



Changeover contact

Contactor main contact



On-delay make contact



Off-delay make contact

Push button and switch symbols



Pushbutton, normally open



Pushbutton, normally closed



Emergency stop (mushroom head)



Selector switch

Limit switch, normally open



Limit switch, normally closed



Pressure switch, normally open

Relay and contactor coil symbols



Relay or contactor coil



Coil, on-delay timer



Coil, off-delay timer

Motor and transformer symbols



Three-phase motor



DC motor



Generator



Two-winding transformer

Electronic component symbols

Resistor



Variable resistor



Capacitor



Polarized capacitor

Inductor



Battery cell



Diode



Light-emitting diode (LED)



Signal lamp

Buzzer