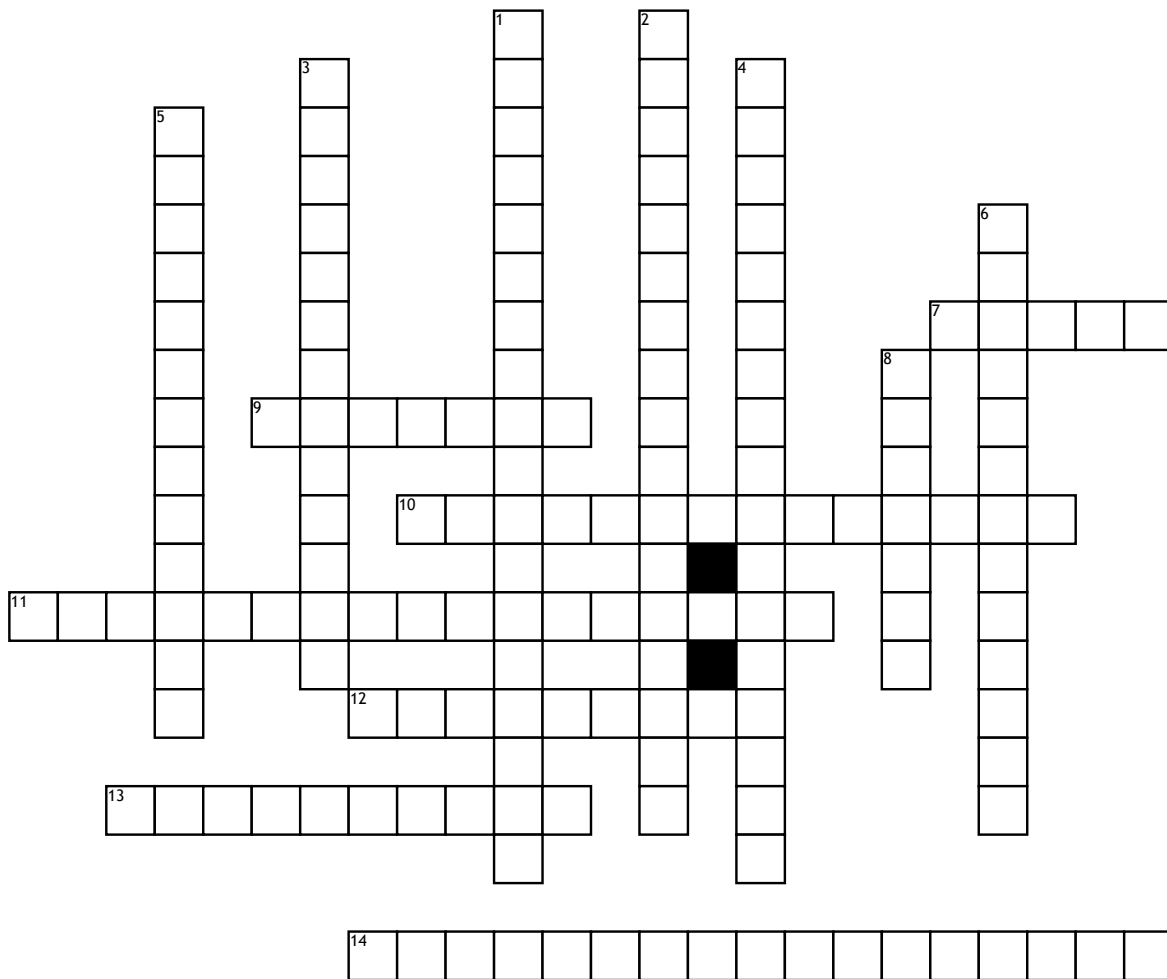


# Electrical Diagrams and Symbols



**Across**

- 7. Electromechanical device operated by a coil; uses contacts to make or break circuits
- 9. Two different metals bonded to provide fast heat transfer to trip contacts by mechanical deflection
- 10. Schematic consisting of single-phase and three-phase power lines; indicates power distribution and fuse and interrupter coordination
- 11. Contact provided in addition to the main circuit contacts but operated with the main contacts.

- 12. Device without overload protection; repeatedly establishes and interrupts an electric power circuit
  - 13. Switch, manually operable plunger, button, or actuating device
  - 14. Pertaining to self-acting starter completely controlled by pilot switches or some other sensing device.
- Down**
- 1. Function of magnetic control that connects equipment directly to supply line on starting
  - 2. Contactor operated electromechanically.

- 3. Schematic consisting of symbols and lines that indicate power source and how current flows through various parts of a control circuit.
- 4. Starter designed to start motor at a reduced speed and build to full speed in preset steps.
- 5. Method of starting an electric motor by connecting it directly to supply lines
- 6. Device for protecting motor from overload current or voltage
- 8. Momentarily operating; moving driven machine a small distance