

ELECTRICAL CONNECTION DATA

Typical Heater Wiring

PARALLEL

Cartridge Heaters are usually wired in a simple parallel connection. Heaters are rated at applied voltage.

PARALLEL (Single Phase)

Cartridge heaters may be wired in series.

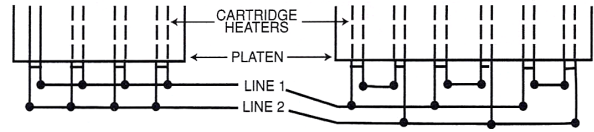
1. To reduce wattage in a system, two heaters rated at 240V wired in series will reduce the total wattage to 1/4 of its rated value when 240V is applied. Three similar heaters wired in series will reduce wattage to 1/9 of its rated value.

2. For use at higher voltage—two 120V heaters wired in series for use on 240V, or two 240V heaters wired in series for 480V.

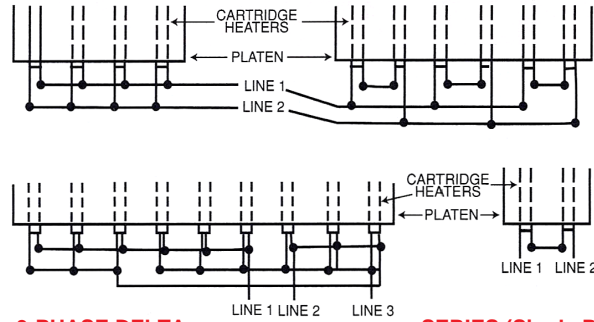
3-PHASE DELTA

The most commonly used method of making 3 Phase connections. The heaters are arranged in multiples of 3 for a balanced system.

PARALLEL



SERIES-PARALLEL



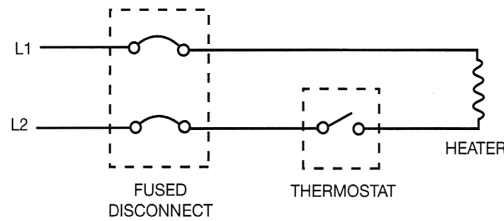
3-PHASE DELTA

SERIES (Single Phase)

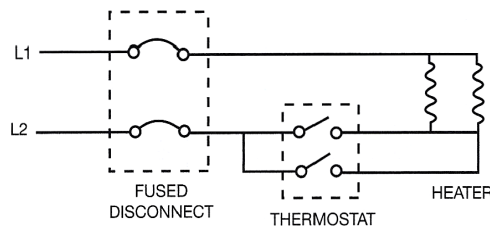
Typical Wiring Diagrams

Single Phase

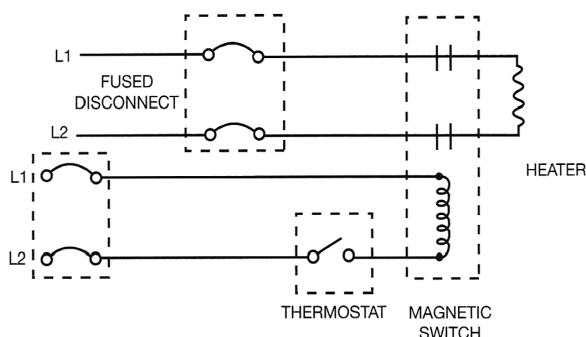
AC OR DC HEATER CIRCUIT



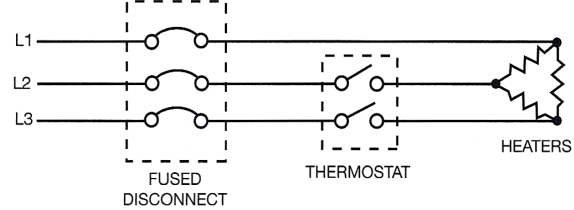
CIRCUIT WITH THERMOSTAT CONNECTED FOR HALF CURRENT LOAD ACROSS EACH CONTACT



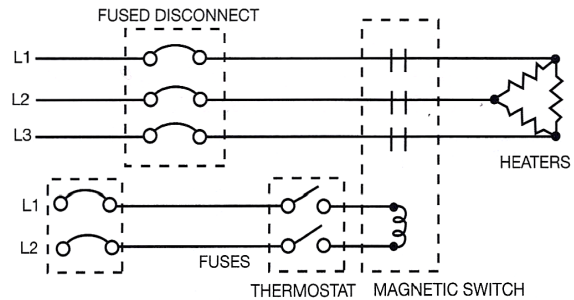
TYPICAL CONNECTIONS WHEN LINE CURRENT EXCEEDS THERMOSTAT RATING



3-Phase



TYPICAL CONNECTION WHEN LINE CURRENT EXCEEDS THERMOSTAT RATING



TYPICAL CONNECTION WITH ELECTRONIC TEMPERATURE CONTROL

