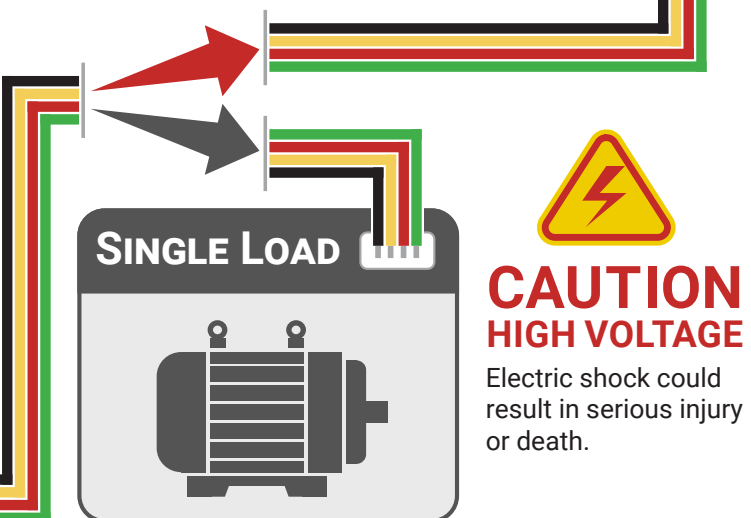
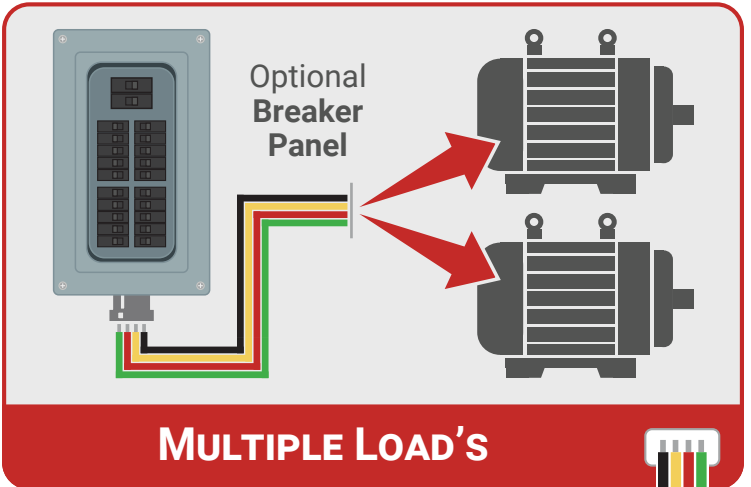


## Mounting the Phase Perfect®

- #1 Mount to the Wall**
  - ▶ Mount the unit to a solid, non-flammable surface capable of supporting the weight of the unit, using the mounting brackets provided.
  - ▶ Ensure air intake and exhaust openings are not obstructed. If mounted in a small room or cabinet, ensure temperature will remain below the unit rating.
- ⚠ **IMPORTANT** – 18" (450 mm) clearance below and 6" (150 mm) around required for ventilation.

## Wiring Connections

- #2 Remove the Front Cover/Open Door**
  - ▶ Open the door, or remove the cover, by gently lifting and pulling forward after removing the screws on each side and front of the unit.
- #3 Routing Cables**
  - ▶ Route cables through the supplied openings in the bottom of the enclosure, using appropriate conduit or strain relief devices.
- ⚠ **IMPORTANT** – Continuous metal conduit should be used for all power cables to reduce radiated electromagnetic interference (EMI).



## Wiring Connections Continued

### #4 Connect Ground

- ▶ Properly ground the phase converter according to local electrical code. Connect the ground lug to the branch circuit or service ground conductor.

### #5 Connect the Output

- ▶ Install the three load side conductors into the output terminals labeled **T1**, **T2**, and **T3**. Connect the load side ground conductor into the grounding terminal.

**NOTE** – **T3** is the manufactured leg.

### #6 Connect the Input Power

- ▶ Connect the line side input leads into the terminal labeled **L1** and **L2**.

**NOTE** – **Optional Run/Stop Switch Installation.** To add an external run/stop switch, remove the orange jumper wire and connect the switch to **AUX1** and **COM** terminals. No voltage may be introduced on these terminals. Dry contact only.

## Powering Up the Phase Perfect

### #7 Close Door or Reinstall Cover + Screws

- ▶ Close the door or replace the cover and reinstall previously removed screws.

### #8 Turn on Line Side Breaker

- ▶ Turn on the line side breaker and verify screen turns on.

**NOTE** – Once the unit is fully energized the internal contactor will pull in. Once this occurs a light sizzling noise will be emitted, and is normal.

**NOTE** – Output is in high-leg delta configuration. Line to line voltage will match input voltage, line to ground will be higher on **T3** than **T1/ T2**.



**PHASE PERFECT**<sup>®</sup>

**SUPPORT DOCUMENTS**

[PhaseTechnologies.com/Support/PT](http://PhaseTechnologies.com/Support/PT)

# PHASE PERFECT<sup>®</sup>

*WILL POWER ONE OR MORE  
THREE-PHASE LOADS, JUST LIKE  
UTILITY-SUPPLIED THREE-PHASE*

## Power Quality & Efficiency

### Voltage Balance Within 2%

Phase Technologies' Digital Phase Converters delivers utility grade three-phase output by maintaining line-to-line voltages balanced within 2%. This high-quality power improves equipment performance and lifespan. Balanced voltage is crucial for efficiency, power output, reliability, and longevity. Even slight imbalances cause excessive heat and motor wear.

## Extended Warranty

Phase Perfect digital phase converters power the most demanding mission critical applications. The Reliable Power Guarantee provides a safeguard against high energy events, surges, lightning, and malfunctions of connected equipment. One year is included with every Phase Perfect to help reduce the stress that can come with unplanned downtime.

**This guarantee may be extended for up to 5 years total from date of purchase at time of installation on in-warranty Phase Perfect systems.**

### With our Reliable Power Guarantee:

- ▶ Defects in materials or workmanship are fixed at no charge.
- ▶ Most accidental damage is repaired for a small fixed deductible.

## Suggested Breaker Sizes Chart

\* Suggested breaker sizes must be verified by a licensed electrician and comply with all applicable electrical codes.

230 V										
Model / Part Number	005	007	010	015	020	030	040	050	060	075
Suggested Breaker Sizes	40 A	60 A	80 A	125 A	150 A	225 A	300 A	400 A	500 A	600 A

Voltage Doubling (230 V In – 460 V Out)					
Model / Part Number	207	210	215	220	230
Suggested Breaker Sizes	60 A	80 A	125 A	150 A	200 A

460 V												
Model / Part Number	407	410	415	420	430	440	450	460	475	4100	4150	4175
Suggested Breaker Sizes	30 A	40 A	60 A	70 A	100 A	150 A	175 A	200 A	250 A	400 A	400 A	500 A