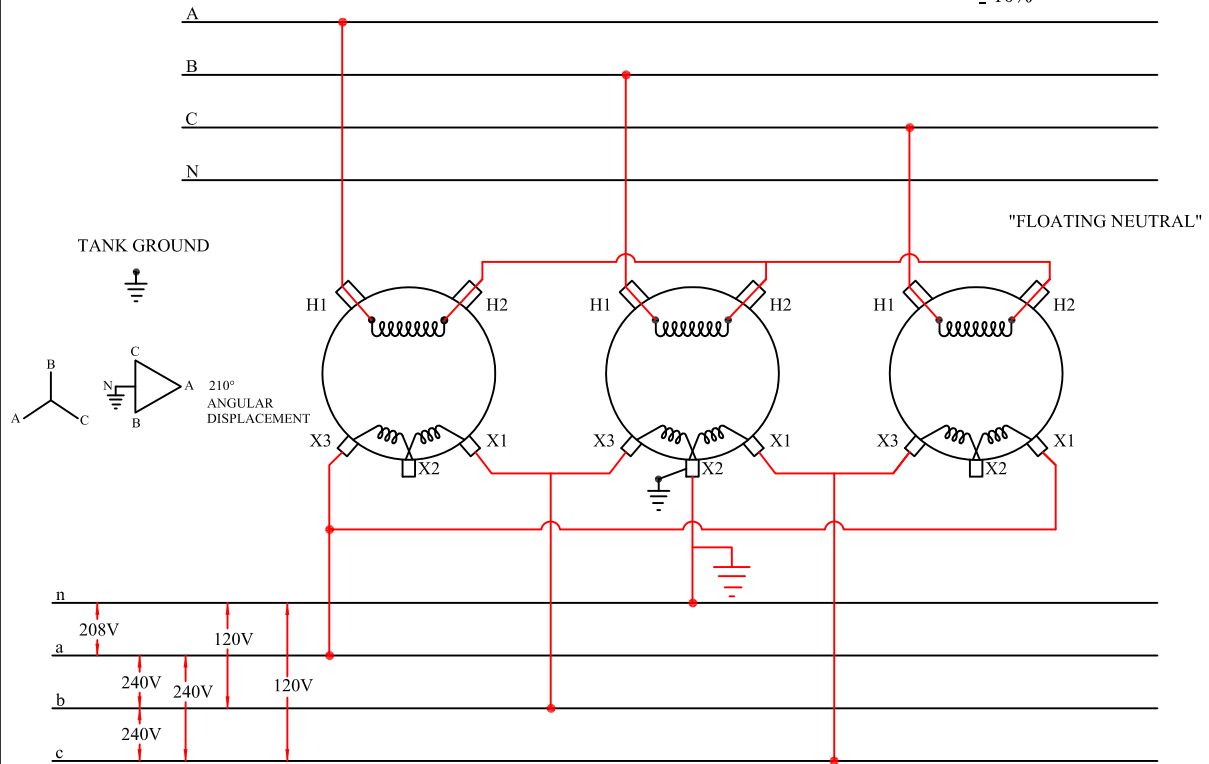


PRIMARY: WYE-connected (Ungrounded)

Each transformer is energized from a different phase of the primary circuit. Usually, the bushing used to connect to the phase conductor is the H1 bushing. (Note: The H2 bushing is NOT grounded. Grounding the H2 bushings of a WYE- DELTA bank can create problems that can cause damage to the transformers). The H2 bushings are tied together and left ungrounded. This is referred to as the "floating neutral" or "floating phase." Treat the H2 bus as an energized conductor.

IMPEDANCE DIFFERENCE ALLOWED
± 10%



SECONDARY: DELTA-connected

This connection is used to supply both single- and three-phase power and is usually 120/240 volts. The wild leg (Phase A) has a voltage- to-ground of 208 volts and cannot be used in a single-phase 120/240V circuit. The wild leg can easily be identified as the phase connected to the transformer which has the ground connection removed from its X2 bushing.

NOTE:

When working with an already existing WYE-DELTA bank, if the high-side neutral bus is grounded, please rewire the high-side bushings as a floating neutral, per the standard.

TITLE:

WYE-DELTA
3-PHASE 4 WIRE

GARLAND
POWER & LIGHT

STANDARD NO.:
OH-1110B
WYE DELTA 4-W

DRAWN BY: SJ/JC	DATE: 7/18/12	APPROVED BY:
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REVISED BY: JB/DM	DATE: 11/18/13	APPROVED BY:
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