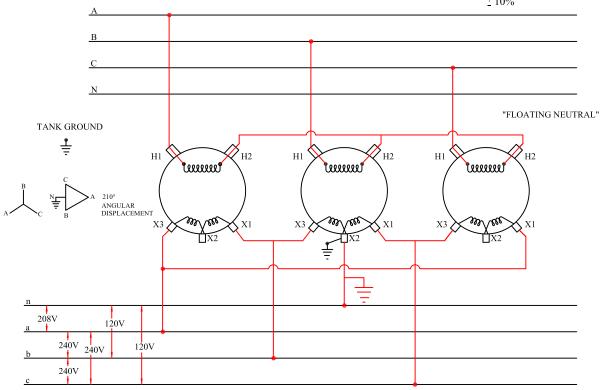


PRIMARY: WYE-connected (Ungrounded)

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.

DRAWN BY: SJ/JC	DATE: 7/18/12	APPROVED BY:	WYE-DELTA 3-PHASE 4 WIRE	GARLAND POWER&LIGHT
REVISED BY:	DATE:	APPROVED BY:		STANDARD NO.: OH-1110B
JB/DM	11/18/13)		WYE DELTA 4-W

Construction Standard Material

Title:

OH-1110 Wye-Delta 4 W

Rev. Date: 11/13/2011

Pic#	Description	WAREHOUSE #	Qty	UOM
1	BOLT MACHINE 3/4" X 14" W/NUT	285-08-10814	1	EA
2	WASHER SQUARE 3/4"	285-08-15315	1	EA
3	CABLE, 5 KV # 2 AWG OKOGUARD	280-42-50005	30	FT
4	ARRESTOR LIGHTING MOV TYPE 10KV, POLYMER	286-04-10010	3	EA
5	CONNECTOR SPLIT BOLT CU TO CU - #6 SOL	285-18-18615	1	EA
6	ROD GROUNDING 5/8" X 8'	285-36-15108	1	EA
7	BRACKET LIGHTNING ARRESTOR OH1	285-38-19191	3	EA
8	BIRD GUARD COVER, FARGO GS-555	285-39-24101	6	EA
9	CUTOUT 100 AMP 15 KV	286-19-10250	3	EA
10	CLAMP GROUND ROD 5/8"	285-13-16025	1	EA
11	LUG TRANSFORMER GROUNDING 8 SOL TO 2/O STR	285-49-17325	1	EA
12	MOUNT TRANSFORMER CLUSTER SIMPLEX TYPE	285-38-15165	1	EA
13	BOLT MACHINE 5/8" X 14" W/NUT	285-08-10788	1	EA
14	WASHER SPRING DOUBLE COIL 5/8"	285-08-85430	1	EA
15				
16				
17				
18				
19				
20				

Garland Power & Light



OH-1110 Wye-Delta 4 W