http://waterheatertimer.org/How-to-wire-3-phase-electric.html http://waterheatertimer.org/How-to-identify-transformer-wiring.html

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Wiring Diagrams Sections I, II, III & IV



ACME® TRANSFORMER[™] WIRING DIAGRAMS







Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
190	H1 & H4	H1, H3, 8 & H2, H4, 1	
200	H1 & H4	H1, H3, 7 & H2, H4, 2	
208	H1 & H4	H1, H3, 6 & H2, H4, 3	
220	H1 & H4	H1, H3, 5 & H2, H4, 4	
380	H1 & H4	H2, H3, 1, 8	
400	H1 & H4	H2, H3, 2, 7	
416	H1 & H4	H2, H3, 3, 6	
440	H1 & H4	H2, H3, 4, 5	
Secondar	y Volts		
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

18 PRIMARY: 240 Volts Delta SECONDARY: 208Y/120 Volts TAPS: 2, 5% BNFC

	H1	H2	НЗ
h			3 2 1
			 x3

Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
240	H1, H2, H3	1	
228	H1, H2, H3	2	
216	H1, H2, H3	3	
Secondar	y Volts		
208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0

16 POWER LINE CONDITIONER



Inpu	t ConnectionsInsulate	
Volts	Connect	a Isolate
120	1, 3, 6, 8 to A 2, 5, 7, 10 to B	4, 9
208	1, 6 to A 4, 9 to B 2, 3 to C 7, 8 to D	5, 10
240	1, 6 to A 5, 10 to B 2, 3 to C 7, 8 to D	4, 9
480	1 to A 10 to B 2, 3 to C 5, 6 to D 7, 8 to E	4, 9
Outpu	ut Connections	Output
Volts	Connect	To
120	11 to F 12 to G 14 to H	F, G
120/240	11 to F 12 to G 14 to H	F, G, H
208	11 to F	ЕH

 208
 12 to G
 F, H

 13 to H
 13 to H
 11 to F

 240
 12 to G
 F, H

 14 to H
 F, H
 14 to H

"INSULATE" must be individually capped with wire nuts or equivalent. Insulate leads individually!



	m	5 سند	4	۱²	h	١	ء سىر	h	٦ľ	IJ	h	uui	ปีป	J.	ιIJ	
Я]	m	m	η				m	m			ſm	m	m]	
	X	0		X	1				x	2		•		Х	1 (3	

Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
252	H1, H2, H3	1	
246	H1, H2, H3	2	
240	H1, H2, H3	3	
234	H1, H2, H3	4	
228	H1, H2, H3	5	
Secondar	y Volts		
208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0

17 PRIMARY: 208 Volts SECONDARY: 120/240 Volts TAPS:



Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
218	H1 & H2	3 to 4	
213	H1 & H2	2 to 4	
208	H1 & H2	3 to 5	
203	H1 & H2	2 to 5	
198	H1 & H2	1 to 5	
192	H1 & H2	2 to 6	
187	H1 & H2	1 to 6	
Secondar	y Volts		
240		X2 to X3	X1-X4
120/240		X2 to X3	X1-X2-X4
120		X1 to X3 X2 to X4	X1-X4

20 PRIMARY: 380 Volts Delta SECONDARY: 220Y/127 Volts TAPS: 2, 21/2% ANFC, 4, 21/2% BNFC

	-11 F	H2 H3	
7654321	7654321	7654321	
	mmm	_ mmm /	7
X0 X1	X2	2 X3	

Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
399	H1, H2, H3	1	
390	H1, H2, H3	2	
380	H1, H2, H3	3	
371	H1, H2, H3	4	
361	H1, H2, H3	5	
352	H1, H2, H3	6	
342	H1, H2, H3	7	
Secondai	y Volts		•
220			X1, X2,X3
			X1 to X0
12/ 1 nhase			X2 to X0
i pilaoo			X3 to X0

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Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
480	H1, H2, H3	1	
456	H1, H2, H3	2	
432	H1, H2, H3	3	
Seconda	ry Volts		
208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0

24 PRIMARY: 380 Volts Delta SECONDARY: 220Y/127 Volts TAPS: 2, 5% BNFC

H2 H1 H3 -321 321 321 بيا للتستشا لللب mh _____ mmm 7 _____ Хo X1 x2 xз Connect Connect Primary Primary Inter-Secondary Volts Lines To Connect Lines To 380 H1, H2, H3 1 361 H1, H2, H3 2 342 H1, H2, H3 3 Secondary Volts 220 X1, X2, X3 X1 to X0 X2 to X0 127 1 phase X3 to X0

27 PRIMARY: 480 Volts Delta SECONDARY: 240 Volts Delta/120 Volts

TAPS: 2, 21/2% ANFC, 4, 21/2% BNFC

	H1 I	H2	H3
5 3			5 3 1 2 4 6 11111 1111
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
504	H1, H2, H3	1 to 2	
492	H1, H2, H3	2 to 3	
480	H1, H2, H3	1 to 4	
468	H1, H2, H3	3 to 4	
456	H1, H2, H3	1 to 6	
444	H1, H2, H3	3 to 6	
432	H1, H2, H3	5 to 6	
Secondar	y Volts		
240			X1, X2, X3
120			X1, X4 or X2, X4





Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
504	H1, H2, H3	1	
492	H1, H2, H3	2	
480	H1, H2, H3	3	
468	H1, H2, H3	4	
456	H1, H2, H3	5	
444	H1, H2, H3	6	
432	H1, H2, H3	7	
Seconda	v Volte	•	

Secondary Volts

208		X1, X2, X3
120 1 phase		X1 to X0 X2 to X0 X3 to X0

25 PRIMARY: 480 Volts Delta SECONDARY: 240 Volts Delta/120 Volts TAPS: 2, 5% BNFC



Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
480	H1, H2, H3	1	
456	H1, H2, H3	2	
432	H1, H2, H3	3	
Secondar	y Volts		
240			X1, X2, X3
120			X1, X4 or X2 X4

28 PRIN SEC	MARY: 600 Vo Ondary: 208 S: 2, 5% BNF(lts Delta Y/120 Volts C	
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
600	H1, H2, H3	1	
570	H1, H2, H3	2	
540	H1, H2, H3	3	
Secondar	y Volts		
208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0



H1 Lu M X4	<u></u> 	H2 H3 H2 H3 H3 H3 H2 H3 H3 H3 H2 H3 H3 H3 H2 H3 H3 H3 H2 H3 H3 H3 H3 H3 H2 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H	H4 H5 山山 四か X1
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
277	H1, H5		
240	H1, H4		
208	H1, H3		
120	H1, H2		
Secondar	y Volts		
120		X1 to X3	V1-V4
120		X2 to X4	A1-74
120/240		X2 to X3	X1-X2-X4
240		X2 to X3	X1-X4



26 SECONDARY: 240 Volts Delta/120 Volts TAPS: 2, 2 1/2% ANFC, 4, 2 1/2% BNFC



Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
504	H1, H2, H3	1	
492	H1, H2, H3	2	
480	H1, H2, H3	3	
468	H1, H2, H3	4	
456	H1, H2, H3	5	
444	H1, H2, H3	6	
432	H1, H2, H3	7	
Secondar	y Volts		
240			X1, X2, X3
120			X1, X4 or X2, X4

29 PRIMARY: 600 Volts Delta SECONDARY: 208Y/120 Volts

TAPS: 2, 21/2% ANFC, 4, 21/2% BNFC

	- ,	-,,,	
	H1	H2	НЗ
Æ			
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
630	H1, H2, H3	1	
615	H1, H2, H3	2	
600	H1, H2, H3	3	
585	H1, H2, H3	4	
570	H1, H2, H3	5	
555	H1, H2, H3	6	
540	H1, H2, H3	7	
Secondar	y Volts		
208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0

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33 PRIMARY: 380 Volts Delta SECONDARY: 208/120 Volts TAPS: 2-21/2% ANFC and BNFC

	H1	H2	H3	
luu	54321 54321 54321			
	<u>m</u> m	<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
X0	X1	X2	X3	
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To	
399	H1, H2, H3	1		
390	H1, H2, H3	2		
380	H1, H2, H3	3		
371	H1, H2, H3	4		
361	H1, H2, H3	5		
Secondary Volts				
208			X1, X2, X3	
120 1 phase			X1 to X0 X2 to X0 X3 to X0	

36 PRIMARY: 460 Volts Delta SECONDARY: 460Y/266 Volts TAPS: 2-21/2% ANFC and BNFC

	н1 	H2 H3
5 3 1 2 4 6		
xo ×	1 • 1	X2 X3
Primary Volts	%	Connect Leads to Tap No.
483	105	1 to 2
472	102.5	2 to 3
460	100	1 to 4
449	97.5	3 to 4
437	95	4 to 5
Secondary Volts		
460		X1, X2, X3
266 1 phase		X1 & X0 X2 & X0 X3 & X0



34 PRIMARY: 460 Volts Delta SECONDARY: 460Y/266 Volts TAPS: 1-5% ANFC and BNFC



X3 to X0

266 1 phase	X1 & X0 X2 & X0 X3 & X0
	-

37 PRIMARY: 460 Volts Delta SECONDARY: 230Y/133 Volts TAPS: 1-5% ANFC and BNFC



32 PRIMARY: 480 Volts Delta SECONDARY: 480Y/277 Volts

TAPS: 2, 21/2% ANFC, 4, 21/2% BNFC			
r	H1	H2	H3
	5 3 1 2 4 6 		1 246
آ <i>جلر</i>		m	······································
+ xi) X1	X2	x3
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
504	H1, H2, H3	1 to 2	
492	H1, H2, H3	2 to 3	
480	H1, H2, H3	1 to 4	
468	H1, H2, H3	3 to 4	
456	H1, H2, H3	1 to 6	
444	H1, H2, H3	3 to 6	
432	H1, H2, H3	5 to 6	
Secondar	y Volts		
480			X1, X2, X3
277 1 phase			X1 to X0 X2 to X0 X3 to X0

35 PRIMARY: 460 Volts Delta SECONDARY: 460Y/266 Volts



266 X1 & X0 1 phase X2 & X0 X3 & X0

38 PRIMARY: 460 Volts Delta SECONDARY: 230Y/133 Volts TAPS: 2-21/2% ANFC and BNFC

НЗ 5 4 3 2 1 5 4 3 2 1 5|4|3|2|1| _____ _____ А xc хı x2 хз **Connect Leads** Primary % Volts to Tap No. 483 105 1 472 102.5 2 460 100 3 449 97.5 4 437 95 5 Secondary Volts 230 X1, X2, X3 X1 & X0 133 X2 & X0 1 phase X3 & X0

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нз

ا¹ ا²ا 3

X3

mmm

Connect Leads

to Tap No.

2

3

X1, X2, X3 X1 & X0 X2 & X0

X3 & X0

НЗ

^{3]2}11 مىسىمى

, mmm i

Connect Leads

to Tap No.

1

2

3

X1, X2, X3

X1 & X0

X2 & X0

X3 & X0

5|4|3|2|1

Connect

Secondary

Lines To

H1, H2, H3

H1 to H0

H2 to H0

H3 to H0

нз



41 SECONDARY: 230Y/133 Volts TAPS: 2-2 1/2% ANFC and BNFC				
		HI	H2	НЗ
			n n n	
X0	>	κ ¹	X2	x3
Primary		0/	Conne	ect Leads
604		105		αμ Νυ. 1
589		103		2
575		102.0		3
561		97.5		4
546		95		5
Secondary	Volts	55		5
230	10110		X1	X2 X3
			X1,	& X0
133 1 nhase			X2	& X0
			Xe	3 & X0
44 SECO TAPS	/IARY: 57 ONDARY: S: 2-21/29	460Y/260 6 ANFC a	elta 5 Volts nd BNFC	
		H1	H2	нз 1
	5 4 3 2 1	5	4 3 2 1	5 4 3 2 1
		 		
x0 x1 x2 x3				
Primary		0/_	Conn	ect Leads
Primary Volts		%	Conn to 1	ect Leads Tap No.
Primary Volts 604 589		% 105 102 5	Conn to 1	ect Leads Tap No. 1
Primary Volts 604 589 575		% 105 102.5 100	Conn to 1	ect Leads Tap No.
Primary Volts 604 589 575 561		% 105 102.5 100 97.5	Conn to 1	ect Leads Tap No. 1 2 3 4
Primary Volts 604 589 575 561 546		% 105 102.5 100 97.5 95	Conn to 1	ect Leads [ap No. 1 2 3 4 5
Primary Volts 604 589 575 561 546 Secondary	Volts	% 105 102.5 100 97.5 95	Conn to 1	Ect Leads [ap No.] 1 2 3 4 5
Primary Volts 604 589 575 561 546 Secondary 460	Volts	% 105 102.5 100 97.5 95	Conn to 1	Eet Leads fap No. 1 2 3 4 5 X2, X3
Primary Volts 604 589 575 561 546 Secondary 460 266	Volts	% 105 102.5 100 97.5 95	Conn to 1	Eect Leads Tap No. 1 2 3 4 5 X2, X3 & X0
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase	Volts	% 105 102.5 100 97.5 95	Connito 1	Eect Leads fap No. 1 2 3 4 5 X2, X3 & X0 & X0 & X0 & X0 & X0
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase	Volts	% 105 102.5 100 97.5 95	Conn. to 1	Ect Leads [ap No. 1 2 3 4 5 X2, X3 I & X0 2 & X0 3 & X0
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase	Volts	% 105 102.5 100 97.5 95 6 Volts D	Conn. to 1	Ect Leads [ap No. 1 2 3 4 5 X2, X3 I & X0 2 & X0 3 & X0
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 SEC	Volts WARY: 41 ONDARY: 210	% 105 102.5 100 97.5 95 6 Volts D 208Y/12/ 208Y/12/	Conn. to 1 X1, X1, X2, X3, Constant Volts 2,10,00	Ect Leads [ap No. 1 2 3 4 5 X2, X3 & X0 2 & X0 3 & X0
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 PRII	Volts Volts MARY: 41 ONDARY: S: 2, 21/2	% 105 102.5 100 97.5 95 6 Volts D 208Y/12/ % ANFC, 1	Conn. to 1 X1, X1, X1, Volts 2, 21/2%	ect Leads Гар No. 1 2 3 4 5 5 X2, X3 X2, X3 X2, X3 X2, X3 X2, X3 X2, X3 X2, X3 X2, X3 X0 2 & X0 3 & X0 BNFC
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47	Volts WARY: 41 ONDARY: S: 2, 21/2'	% 105 102.5 100 97.5 95 6 Volts D 208Y/12 % ANFC,	Сопп. to 1 X1, X1, X2 X3 elta D Volts 2, 21/2%	ect Leads Гар No. 1 2 3 4 5 Х2, X3 & X0 2 & X0 3 & X0 ВNFC H3
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 PRII SEC TAPS	Volts Volts MARY: 41 ONDARY: S: 2, 21/2'	% 105 102.5 100 97.5 95 6 Volts D 208Y/120 % ANFC, 11	Сопп. to 1 X1, X1, X1, X2 X3 Elta D Volts 2, 2 1/2% H2	Ect Leads [ap No. 1 2 3 4 5 X2, X3 4 5 X2, X3 1 & X0 2 & X0 3 & X0 BNFC H3 5 4 3 2 1 5 4 3 2 1
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 SEC TAP	Volts Volts MARY: 41 ONDARY: S: 2, 21/2'	% 105 102.5 100 97.5 95 6 Volts D 208Y/12/ % ANFC, 11	Conn to 1	ect Leads [ap No. 1 2 3 4 5 X2, X3 ↓ & X0 2 & X0 3 & X0 BNFC H ³ ↓ 5 5 14 ³ 5 14 ³ 5 14 ³ 5 14 ³ 5 1 8 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 SEC TAP	Volts Volts MARY: 41 ONDARY: S: 2, 21/2' 51/4/312/11	% 105 102.5 100 97.5 95 6 Volts D 208Y/12 % ANFC, 11 ↓ ↓ ↓ ↓ ↓ ↓	Conn. to 1	BNFC
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 PRII SEC TAP: xo Primary Volts	Volts Volts MARY: 41 ONDARY: S: 2, 21/2" 514131211 ×11 Conneet Primar Lines T	% 105 102.5 100 97.5 95 6 Volts D 208Y/12t % ANFC, 41 Current 5[4] Current 5[4] Current 5[4	Conn. to 1	Ect Leads [ap No. 1 2 3 4 5 X2, X3 4 5 X2, X3 4 2 & X0 2 & X0 3 & X0 BNFC H ³ 5 (4 NO 2 & X0 3 & X0 2 & X0 3 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 3 & X0 2 & X0 3 & X0 3 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 & X0 3 & X0 3 & X0 2 & X0 3 & X0 2 & X0 3 &
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 SEC TAP Volts 437	Volts Volts MARY: 41 ONDARY: S: 2, 21/2' S: 2, 21/2' Connec Primar Lines T H1, H2,	% 105 102.5 100 97.5 95 6 Volts D 208Y/12/ % ANFC, 1	Conn to 1 X1, X1, X2 X2 Volts 2, 2 1/2% H2 S2 2 1/2% H2 S2 2 1/2% H2 S2 2 1/2% H2 S2 1/2% H2 H2 S2 1/2% H2 S2 1/2% H2 H2 S2 1/2% H2 S2 1/2% H2 S2 S2 1/2% H2 S2 S2 1/2% H2 S2 S2 S2 S2 S2 S2 S2 S2 S2	Ect Leads [ap No. 1 2 3 4 5 X2, X3 4 5 X2, X3 2 & X0 2 & X0 3 & X0 BNFC H3 5 5 5 14.3211 5 5 5 14.3211 X3 Connect Secondary Lines To
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 SEC TAP 40 266 1 phase Primary Volts 437 426	Volts Volts MARY: 41 ONDARY: S: 2, 21/2 S: 2, 21/2 S: 2, 21/2 Connet Primar Lines T H1, H2, H1, H2,	% 105 100 97.5 95 6 Volts D 208Y/12 % ANFC, ************************************	Conn to 1 X1, X1, X2 X2 Volts 2, 21/2% H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2	Ect Leads [ap No. 1 2 3 4 5 X2, X3 4 5 X2, X3 (& X0 2 & X0 3 & X0 BNFC H3 5 5 5 5 14.31211 5 5 5 14.31211 5 5 5 5 14.322 7 5 5 5 5 5 5 5 5 5 5 5 5 5
$\begin{array}{c} \begin{array}{c} \mbox{Primary} \\ \mbox{Volts} \\ \hline 604 \\ \hline 589 \\ \hline 575 \\ \hline 561 \\ \hline 546 \\ \hline \\ \mbox{Secondary} \\ \hline 460 \\ \hline 266 \\ 1 \mbox{ phase} \\ \hline \\ \mbox{460} \\ \hline 266 \\ 1 \mbox{ phase} \\ \hline \\ \mbox{47} \mbox{ primary} \\ \hline \\ \mbox{Volts} \\ \hline \\ \mbox{437} \\ \hline \\ \mbox{426} \\ \hline \\ \mbox{416} \\ \hline \end{array}$	Volts Volts MARY: 41 ONDARY: S: 2, 21/2' S: 2, 21/2' S: 2, 21/2' Turning Turning Lines T H1, H2, H1, H2, H1, H2, H1, H2,	% 105 102.5 97.5 95 6 Volts D 208Y/12 % ANFC, ************************************	Conn. to 1	BNFC H3 5 K2, X3 4 5 X2, X3 4 5 K2, X3 K3 K0 Connect Secondary Lines To
Primary Volts 604 589 575 561 546 Secondary 460 266 1 phase 47 PRII SEC TAP \checkmark \bullet	Volts Volts MARY: 41 ONDARY: S: 2, 21/2' S: 2, 21/2' S: 2, 21/2' I I I I H1, H2, H1, H2, H1, H2, H1, H2, H1, H2,	% 105 102.5 100 97.5 95	Сопп. to 1 X1, X1, X2 X2 Volts 2, 21/2% H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2	Ect Leads [ap No. 1 2 3 4 5 X2, X3 4 5 X2, X3 4 X2, X3 4 X2, X3 4 5 X2, X3 4 S S Connect Secondary Lines To
$\begin{array}{c} \hline Primary \\ Volts \\ \hline 604 \\ \hline 589 \\ \hline 575 \\ \hline 561 \\ \hline 546 \\ \hline $econdary \\ 460 \\ \hline 266 \\ 1 \text{ phase} \\ \hline \hline \\ 47 \\ \hline \\ 82 \\ \hline \\ 47 \\ \hline \\ 82 \\ \hline \\ 7 \\ \hline \\ 82 \\$	Volts Volts Volts S: 2, 21/2' 5141912/11 SS: 2, 21/2' 5141912/11 X1 Connet Primar Lines T H1, H2, H1, H2, H1, H2, H1, H2, H1, H2, H1, H2, H1, H2,	% 105 102.5 100 97.5 95 6 Volts D 208Y/120 % ANFC, 41 Ct 41 Ct 514 Ct 514 Ct 514 Ct 514 Ct 514 Ct 514 Ct 514	Conn to 1 X1, X1, X2 Volts 2, 21/2% H2 S S S S S S S S S S S S S S S S S S	BNFC H3 S S S S S S S S S S S S S

DDIMADV: 575 Volte Dolta

Secondary Volts		
208	X1, X2, X3	
120 1 phase	X1 to X0 X2 to X0 X3 to X0	

1 phase

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H3

хз

НЗ



50 PR	IWARY: 600 V Condary: 38 PS: 2. 2½% /	oits Delta 0Y/220 Volts ANFC, 4, 2½%	6 BNFC
		7]6[5]4[3]2[1]	
/// x	0 X1	X2	
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondar Lines To
630	H1, H2, H3	1	
615	H1, H2, H3	2	
600	H1, H2, H3	3	
585	H1, H2, H3	4	
570	H1, H2, H3	5	
555	H1, H2, H3	6	
540	H1, H2, H3	7	
Secondary Volts			
380			X1, X2, X
220 1 phase			X1 to X0 X2 to X0 X3 to X0

PRIMARY: 600 Volts Delta 53 SECONDARY: 380Y/220 Volts **TAPS: 2, 5% BNFC**



Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
600	H1, H2, H3	1	
570	H1, H2, H3	2	
540	H1, H2, H3	3	
Secondar	y Volts		
380			X1, X2, X3
000			X1 to X0

X2 to X0

X3 to X0

PRIMARY: 600 Volts 56 **SECONDARY: 480 Volts** TAPS: 2, 5% BNFC

220

1 phase

НЗ

x3

X3 to X0



Primary Volts	Alt Rating	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To			
600	480	H1, H2, H3					
570	456	H4, H5, H6					
540	432	H7, H8, H9					
Second	Secondary Volts						
480	380			X1, X2, X3			
277 1 phase	220 1 phase			X1 to X0 X2 to X0 X3 to X0			

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1 phase

X3 to X0

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Primary Volts	Alt Rating	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To		
600	480	H1, H2, H3	1			
570	456	H1, H2, H3	2			
540	432	H1, H2, H3	3			
Seconda	Secondary Volts					
480	380			X1, X2, X3		
277 1 phase	220 1 phase			X1 to X0 X2 to X0 X3 to X0		

23 X3





Primary Volts	%	Connect Leads to Tap No.
208	100	1
198	95	2
187	90	3
Secondary Volts		
208		X1, X2, X3
120 1 phase		X1 & X0 X2 & X0 X3 & X0

63 PRIMARY: 120/208/240/277 Volts SECONDARY: 120/240 Volts



Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
120	H1 & H8	H1 to H6 H3 to H8	
208	H1 & H8	H2 to H7	
240	H1 & H8	H3 to H6	
277	H1 & H8	H4 to H5	
Secondar			
240		X2 to X3	X1 & X4
120/240		X2 to X3	X1, X3, X4
120		X1 to X3 X2 to X4	X1 & X4

8 PRIMARY: 208 Volts SECONDARY: 120/240 Volts TAPS: 2, 5% BNFC					
	H1 1 2 3 Luuuluu X4 X2	4 5 6 Luluuuu X3 X1) A		
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To		
208	H1 & H2	3 to 4			
198	H1 & H2	2 to 5			
187	H1 & H2	1 to 6			
Secondary	v Volts				
240		X2 to X3	X1-X4		
120/240		X2 to X3	X1-X2-X4		
120		X1 to X3 X2 to X4	X1-X4		



Volts	%	to Tap No.
218	105	1
213	102.5	2
208	100	3
203	97.5	4
198	95	5
Secondary Volts		
208		X1, X2, X3
120 1 phase		X1 & X0 X2 & X0 X3 & X0

64 PRIMARY: 190/208/220/240 x 380/416/440/480 Volts SECONDARY: 120/240 Volts

HI Luuluu	H3 H5	H6 H7	H10 H9
 x4		 х2	رجر (X1
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
190	H1& H7	H1 to H6 H2 to H7	
208	H1 & H8	H1 to H6 H3 to H8	
220	H1 & H9	H1 to H6 H4 to H9	
240	H1& H10	H1 to H6 H5 to H10	
380	H1 & H7	H2 to H6	
416	H1 & H8	H3 to H6	
440	H1 & H9	H4 to H6	
480	H1 & H10	H5 to H6	
Secondar	y Volts		
240		X2 to X3	X1 - X4
120/240		X2 to X3	X1- X2 - X4
120		X1 to X3 X2 to X4	X1 - X4

PRIMARY: 230 Volts Delta 59 SECONDARY: 230Y/133 Volts TAPS: 2-21/2% ANFC and 2-21/2% BNFC нз 5|4|3^{|2}|1 5|4|3²|1 5|4|3[|]2|1| _____ x2 **Connect Leads** Primary % to Tap No. Volts 105 242 1 102.5 2 236 230 100 3 224 97.5 4 219 95 5 **Secondary Volts** 230 X1, X2, X3 X1 & X0 X2 & X0 133

X3 & X0



1 phase



65 PRIMARY: 190/200/208/220 x 380/400/416/440 Volts SECONDARY: 110/220 Volts

ŀ	H1 H2			H10		
Х	4	X3	X2	1/// X1		
	Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To		
	190	H1 & H7	H1 to H6 H2 to H7			
	200	H1 & H8	H1 to H6 H3 to H8			
	208	H1 & H9	H1 to H6 H4 to H9			
	220	H1 & H10	H1 to H6 H5 to H10			
	380	H1 & H7	H2 to H6			
	400	H1 & H8	H3 to H6			
	415	H1 & H9	H4 to H6			
	440	H1 & H10	H5 to H6			
	Secondary Volts					
	220		X2 to X3	X1-X4		
	110/220		X2 to X3	X1-X2-X4		
	110		X1 to X3 X2 to X4	X1-X4		

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PRIMARY: 480 Volts Delta

SECONDARY: 208Y/120 Volts



X2 to X0

X3 to X0

1 phase



73 PRIMARY: 440 Volts Delta SECONDARY: 220Y/127 Volts TAPS: 2, 5% ANFC & BNFC



Primary Volts	%	Connect Leads to Tap No.	
484	110	1	
462	105	2	
440	100	3	
418	95	4	
396	90	5	
Secondary Volts			
220		X1, X2, X3	
127 1 phase		X1 to X0 X2 to X0 X3 to X0	



PRIMARY: 480 Volts Delta

SECONDARY: 240 Volts Delta/120 Volts

68







Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To
252	X1, X2, X3	1	
246	X1, X2, X3	2	
240	X1, X2, X3	3	
234	X1, X2, X3	4	
228	X1, X2, X3	5	

Secondary	/ VOITS	
480		H1, H2, H3
277 1 phase		H1 to H0 H2 to H0 H3 to H0

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75 PRII 230/ SEC	MARY: 190/20 /240 Volts Del ONDARY: 400	10/210/220/ Ita 17/231 Volts		76 PRI SEC	MARY: 400 V ONDARY: 24 S: 2 5% BNE	olts Delta 0 Volts Delta/ 5C	120 Volts	
	H1	H2	НЗ		3. 2, 3 // DN	H2	НЗ	
	, ,		↓					
luuu	554321 UUUU uuu	654321 JUUUU UU	654321 WUUUU	luuu		uulli luu	321 MUU	
			سسس					
X0	X1	X2	• X3		X1	X4 X2	×3	
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To	Primary Volts	Connect Primary Lines To	Inter- Connect	Conne Second	
240	H1, H2, H3	1		400	H1, H2, H3	1		
230	H1, H2, H3	2		380	H1, H2, H3	2		
220	H1, H2, H3	3		360	H1, H2, H3	3		
210	H1, H2, H3	4		Secondary	/ Volts			
200	H1, H2, H3	5		240			X1. X2	
190	H1, H2, H3	6					X1 to X	
Secondary	y Volts			120			X2 to	
400			X1, X2, X3					
231			X1 to X0					
1 phase			X2 to X0 X3 to X0	PRIMARY: 277/480 Volts				
				A SEC	ONDARY: 20	B/277 Volts		
PRI	MARY · 277/48	SU Auto			O. NONL			
78 SEC	ONDARY: 208	3/277 Volts		H	41		H6	
TAP	S: NONE				H2 H3	H4 H5		
	H1 I	Н2 Н3				لیسیل	<u>1</u>	
	h	<u> </u>	L		mm Y5		ח״״	
	က္ရက	ſſſſſſſ	7				 X1	
	XI	X2 X3			X0 X0	74	A1	
Primary Volts	Connect Primary Lines To	Inter- Connect	Connect Secondary Lines To	Primary Volts	Connect Primary Lines To	Inter- Connect	Conne Second Lines	
277	H1 & H2			277	H1 - H5	H2 to H4		
480	H1 & H3			480	H1 - H6	H3 to H4		
Secondary	y Volts			Secondary	/ Volts		1	
208			X1 to X2	208		X2 to X4	X1-X	
277			X1 to X3	277		X3 to X4	X1- X	
81 PRI SEC TAP	MARY: 480 Vo Ondary: 208 S: 2, 2 ½% A	Dits Delta BY/120 Volts NFC, 2, 21/29	6 BNFC	82 PRI SEC TAP	MARY: 380 V ONDARY: 20 VS: 2-21/2% A	olts Delta 8Y/120 Volts NFC and 2-21	/2% BNF(
п	54321	54321	54321		5 4 3 2 1	51 41 31 21 11	5141312	
				سیا		սահղորդություն	سسليليل	
- f mm	<u>I</u>	<u> </u>	mm /77					
X0		×3		xo	X1	X2		
				Prima	rv	Co	nect l ea	
Primary	Connect Primary	Inter-	Connect	Volts	9	6 t	o Tap No.	
Volts	Lines To	Connect	Lines To	399	10)5	1	
504	H1, H2, H3	1		390	102	2.5	2	
492	H1, H2, H3	2		380	10	00	3	
480	H1, H2, H3	3		371	97	.5	4	
468	H1, H2, H3	4		361	9	5	5	
456	H1 H2 H3	5		Secondary	/ Volts	- 1	~	
Secondar	/ Volts	0	<u> </u>	208		>	(1, X2, X3	
202			X1 X2 X3				X1 to X0	
			X1 to X0	120 1 phas	e		X2 to X0	
400					1		A 5 1(1) X 1	





Primary Volts	%	Connect Leads to Tap No.
399	105	1
390	102.5	2
380	100	3
371	97.5	4
361	95	5
Secondary Volts	;	
208		X1, X2, X3
120 1 phase		X1 to X0 X2 to X0 X3 to X0

X2 to X0

X3 to X0

120

1 phase