

GENERAL INFORMATION

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAMS

SCD 1

SCHEMATIC		CONNECTIONS			
		Primary Volts			
		240	480	416	
		Connect lines to		Inter-connect	
		H1, H4		H2-H3	
		H1, H4		H1-H3, H2-H4	
		Secondary Volts			
		24	32	48	240
		12/24	16/32	24/48	120/240
		12	16	24	120
		Connect lines to		Inter-connect	
		X1, X4		X2-X3	
		X1, X2, X4		X2-X3	
		X1, X2		X2-X4, X1-X3	

SCD 2

SCHEMATIC		CONNECTIONS		
		Primary Volts		
		504		
		Connect lines to		Inter-connect
		H1, H4		1-H2, 2-H3, H2-H3
		H1, H4		3-H2, 2-H3, H2-H3
		H1, H4		3-H2, 4-H3, H2-H3
		H1, H4		5-H2, 4-H3, H2-H3
		H1, H4		5-H2, 6-H3, H2-H3
		H1, H4		7-H2, 6-H3, H2-H3
		H1, H4		7-H2, 8-H3, H2-H3
		H1, H4		1-H2, 2-H3, H1-H3, H2-H4
		H1, H4		3-H2, 4-H3, H1-H3, H2-H4
		H1, H4		5-H2, 6-H3, H1-H3, H2-H4
		H1, H4		7-H2, 8-H3, H1-H3, H2-H4
		Secondary Volts		
		240		X2- X3
		120		X2-X4, X1-X3
		120/240		X2-X3

SCD 3

SCHEMATIC		CONNECTIONS		
		Primary Volts		
		630		
		Connect lines to		Inter-connect
		H1, H2, H3		1-H1, 1-H2, 1-H3
		H1, H2, H3		2-H1, 2-H2, 2-H3
		H1, H2, H3		3-H1, 3-H2, 3-H3
		H1, H2, H3		4-H1, 4-H2, 4-H3
		H1, H2, H3		5-H1, 5-H2, 5-H3
		H1, H2, H3		6-H1, 6-H2, 6-H3
		H1, H2, H3		7-H1, 7-H2, 7-H3
		H1, H2, H3		8-H1, 8-H2, 8-H3
		Secondary Volts		
		208	480	-
		120	120	-
		Connect lines to		Inter-connect
		X1, X2, X3		-
		X1, X0		-
		X2, X0		-
		X3, X0		-

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SCD 4

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	208 277 347 380 416 600	H1, H2	---
	Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 5

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	120 208 240 277 380 416 480 600	H1, H2	1-2
	114 198 228 263 395 456 570	H1, H2	2-3
108 188 216 249 347 374 432 540	H1, H2	3-4	
Secondary Volts	Connect lines to	Inter-connect	
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 6

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 291 437 504 630 2520 4368	H1, H2	1-2
	213 284 426 492 615 2460 4264	H1, H2	2-3
208 277 416 480 600 2400 4160	H1, H2	3-4	
203 270 406 468 585 2340 4056	H1, H2	4-5	
198 263 395 456 570 2280 3952	H1, H2	5-6	
Secondary Volts	Connect lines to	Inter-connect	
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 7

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 242 252 437 483 504 604 630	H1, H2, H3	1
	208 230 240 416 460 480 575 600	H1, H2, H3	2
198 219 228 395 437 456 570 570	H1, H2, H3	3	
Secondary Volts	Connect lines to	Inter-connect	
208 230 240 380 416 460 480 600	X1, X2, X3		
120 133 139 220 240 265 277 347	X1, X0 X2, X0 X3, X0		

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SCD 8

SCHEMATIC	CONNECTIONS												
	Primary Volts		Connect lines to	Inter-connect									
	218	242	252	437	483	504	604	630	2520	4368	H1, H2, H3	1-2	
	208	230	240	416	460	480	575	600	2400	4160	H1, H2, H3	2-3	
	198	219	228	395	437	456	546	570	2280	3952	H1, H2, H3	3-4	
	Secondary Volts		Connect lines to		Inter-connect								
	208	230	240	380	416	460	480	600				X1, X2, X3	
	120	133	139	220	240	265	277	347	X1, X0	X2, X0	X3, X0		

SCD 9

SCHEMATIC	CONNECTIONS									
	Primary Volts		Connect lines to	Inter-connect						
	218	242	252	437	483	504	604	630	H1, H2, H3	1
	213	236	246	426	472	492	589	615	H1, H2, H3	2
	208	230	240	416	460	480	575	600	H1, H2, H3	3
	203	224	234	406	449	468	561	585	H1, H2, H3	4
	198	219	228	395	437	456	546	570	H1, H2, H3	5
	Secondary Volts		Connect lines to		Inter-connect					
	208	380	416	480	600	X1, X2, X3			-	
	120	220	240	277	347	X1, X0			-	
				X2, X0						-
				X3, X0						-

SCD 10

SCHEMATIC	CONNECTIONS											
	Primary Volts		Connect lines to	Inter-connect								
	218	242	252	437	483	504	604	630	2520	4368	H1, H2, H3	1-2
	208	230	240	416	460	480	575	600	2400	4160	H1, H2, H3	2-3
	203	224	234	406	449	468	561	585	2340	4056	H1, H2, H3	4-5
	198	219	228	395	437	456	546	570	2280	3952	H1, H2, H3	5-6
		Secondary Volts		Connect lines to		Inter-connect						
	208	380	416	480	600	X1, X2, X3			-			
	120	220	240	277	347	X1, X0			-			
				X2, X0						-		
				X3, X0						-		

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SCD 11

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		630 615 600 585 570 504 492 480 468 456	H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3	1-H1, 1-H2, 1-H3 2-H1, 2-H2, 2-H3 3-H1, 3-H2, 3-H3 4-H1, 4-H2, 4-H3 5-H1, 5-H2, 5-H3 6-H1, 6-H2, 6-H3 7-H1, 7-H2, 7-H3 8-H1, 8-H2, 8-H3 9-H1, 9-H2, 9-H3 10-H1, 10-H2, 10-H3
		Secondary Volts	Connect lines to	Inter-connect
		208 480 120 120	X1, X2, X3 X1, X0 X2, X0 X3, X0	- - - -

SCD 12

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		480 600 456 570 432 540	H1, H2, H3 H1, H2, H3 H1, H2, H3	1-2 2-3 3-4
		Secondary Volts	Connect lines to	Inter-connect
		240	X1, X2, X3	-

SCD 13

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		480 600 456 570 432 540	H1, H2, H3 H1, H2, H3 H1, H2, H3	1-2 2-3 3-4
		Secondary Volts	Connect lines to	Inter-connect
		240 120	X1, X2, X3 X1, X6 X3, X6	- - -

SCD 14

SCHEMATIC		CONNECTIONS		
		Connect to	Step Down	Step Up
		Lines from Supply	H1, H2, H3	X1, X2, X3
		Lines to Load	X1, X2, X3	H1, H2, H3

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SCD 19

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 504 630	H1, H2, H3	1-H1, 1-H2, 1-H3
	213 492 615	H1, H2, H3	2-H1, 2-H2, 2-H3
	208 480 600	H1, H2, H3	3-H1, 3-H2, 3-H3
	203 468 585	H1, H2, H3	4-H1, 4-H2, 4-H3
	198 456 570	H1, H2, H3	5-H1, 5-H2, 5-H3
	193 444 556	H1, H2, H3	6-H1, 6-H2, 6-H3
	188 432 542	H1, H2, H3	7-H1, 7-H2, 7-H3
	Secondary Volts	Connect lines to	Inter-connect
	208 480	X1, X2, X3	-
	120 120	X1,X0 X2,X0 X3,X0	-

SCD 20

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 504	H1, H2, H3	1-2
	213 492	H1, H2, H3	2-3
	208 480	H1, H2, H3	3-4
	203 468	H1, H2, H3	4-5
	198 456	H1, H2, H3	5-6
	193 444	H1, H2, H3	6-7
	188 432	H1, H2, H3	7-8
	Secondary Volts	Connect lines to	Inter-connect
	208	X1, X2, X3	-
	120	X1,X0 X2,X0 X3,X0	-

SCD 21

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H2, H3	1-H1, 1-H2, 1-H3
	492	H1, H2, H3	2-H1, 2-H2, 2-H3
	480	H1, H2, H3	3-H1, 3-H2, 3-H3
	468	H1, H2, H3	4-H1, 4-H2, 4-H3
	456	H1, H2, H3	5-H1, 5-H2, 5-H3
	444	H1, H2, H3	6-H1, 6-H2, 6-H3
	432	H1, H2, H3	7-H1, 7-H2, 7-H3
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	-
	120	X1, X6 X3, X6	- -

SCD 22

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H2, H3	1-2
	492	H1, H2, H3	2-3
	480	H1, H2, H3	3-4
	468	H1, H2, H3	4-5
	456	H1, H2, H3	5-6
	444	H1, H2, H3	6-7
	432	H1, H2, H3	7-8
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	-
	120	X1, X6 X3, X6	- -

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SCD 23

SCHEMATIC		CONNECTIONS			
		Primary Volts		Connect lines to	Inter-connect
		208	240	X1, X2, X3	1-2
		198	228	X1, X2, X3	2-3
		Secondary Volts		Connect lines to	
230	260	460	480	H1, H2, H3	
133	139	265	277	H1, H0 H2, H0 H3, H0	

SCD 24

SCHEMATIC		CONNECTIONS		
		Connect to	Step Down	Step Up
		Lines from Supply	H1, H2, H3	X1, X2, X3
		Lines to Load	X1, X2, X3	H1, H2, H3

SCD 25

SCHEMATIC		CONNECTIONS						
		Primary Volts			Connect lines to	Inter-connect		
		208	240	416	480	600	H1, H2, H3	1-2
		198	228	395	456	570	H1, H2, H3	2-3
		187	216	374	432	540	H1, H2, H3	3-4
		Secondary Volts			Connect lines to		Inter-connect	
208	380	416	480	600	X1, X2, X3		-	
120	220	240	277	347	X1, X0 X2, X0 X3, X0		-	

SCD 26

SCHEMATIC		CONNECTIONS				
		Primary Volts		Connect lines to	Inter-connect	
		218	252	X1, X2, X3	1	
		213	246	X1, X2, X3	2	
		208	240	X1, X2, X3	3	
		203	234	X1, X2, X3	4	
		198	228	X1, X2, X3	5	
		Secondary Volts		Connect lines to		Inter-connect
460	480	600	H1, H2, H3		-	
265	277	347	H1, H0 H2, H0 H3, H0		-	

SCD 27

SCHEMATIC		CONNECTIONS		
		Primary Volts		Inter-connect
		630	H1, H2, H3	1-2
		600	H1, H2, H3	2-3
		570	H1, H2, H3	3-4
		Secondary Volts		Inter-connect
240	X1, X2, X3		-	

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SCD 28

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		440 416 400 380 220 208 200 190	H1, H10 H1, H9 H1, H8 H1, H7 H1, H10 H1, H9 H1, H8 H1, H7	H5-H6 H4-H6 H3-H6 H2-H6 H1-H6, H5-H10 H1-H6, H4-H9 H1-H6, H3-H8 H1-H6, H2-H7
		Secondary Volts	Connect lines to	Inter-connect
		240 120/240 120	X1, X4 X1, X2, X4 X1, X4	X2-X3 X2-X3 X2-X4, X1-X3

SCD 29

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		630 504 615 492 600 480 585 468 570 456	H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3	1-2 2-3 3-4 4-5 5-6
		Secondary Volts	Connect lines to	Inter-connect
		240	X1, X2, X3	

SCD 30

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		440 416 400 380 220 208 200 190	H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4	1-H2, 2-H3, H2-H3 3-H2, 4-H3, H2-H3 5-H2, 6-H3, H2-H3 7-H2, 8-H3, H2-H3 1-H2, 2-H3, H1-H3, H2-H4 3-H2, 4-H3, H1-H3, H2-H4 5-H2, 6-H3, H1-H3, H2-H4 7-H2, 8-H3, H1-H3, H2-H4
		Secondary Volts	Connect lines to	Inter-connect
		240 120 120/240	X1, X4 X1, X2 X1, X2, X4	X2-X3 X2-X4, X1-X3 X2-X3

SCD 31

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		218 291 437 504 630 213 284 426 492 615 208 277 416 480 600 203 270 406 468 585 198 263 395 456 570	H1, H6 H1, H5 H2, H5 H2, H4 H3, H4	- - - - -
		Secondary Volts	Connect lines to	Inter-connect
		240 120/240 120	X1, X4 X1, X2, X4 X1, X2	X2-X3 X2-X3 X2-X4, X1-X3

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SCD 36

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218* 504 630 213* 492 615 208* 480 600 203* 468 585 198* 456 570	H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3	1-2 2-3 3-4 4-5 5-6
Secondary Volts	Connect lines to	Inter-connect	
208 480 600 120 277 347	X1, X2, X3 Y1, Y2, Y3 X1, X0/Y0 X2, X0/Y0 X3, X0/Y0 Y1, X0/Y0 Y2, X0/Y0 Y3, X0/Y0	- - - - - - -	

* Standard 2-2.5% FCAN and 2-2.5% FCBN primary taps for 208V H2EM units only available up to 75 kVA. Please consult factory for standard taps on 208V primary units over 75 kVA.

SCD 37

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	480 456 432	H1, H2, H3 H1, H2, H3 H1, H2, H3	1 2 3
Secondary Volts	Connect lines to	Inter-connect	
240	X1, X2, X3	-	

SCD 38

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504 492 480 468 456 444 432	H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3	1 2 3 4 5 6 7
Secondary Volts	Connect lines to	Inter-connect	
240	X1, X2, X3	-	

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